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Vol. I. No. 6.

## RURAL NOTES.

Ensilages appears to be unsafo diet for horses. Several cases in which it has been used with fatal results are reported in the Cuuntry Gentleman.

Pollbd cattle are fast rising in price. A correspendent of the Rural New Yorker says that in Scotland they now bring more money than the Shorthorns.

The directors of the Stratiord Horticultural Society have decided to offer prizes for the best kept amateur gardens, at their next exhibition to be held in mid summer.

How kind! It is advertised that the Jersey bull " Polonius," for which, as recently stated in the Rural Canadian, $\$ 4,500$ were paid, "will be allowed to serve a limited number of approved cows at $\$ 850$ esch $l^{\prime \prime}$

Irrigation, as a means of preventing the disastrous effects of such a protracted drought as that of last summer, should bo resorted to by all farmers who have the facilities for so doing, as large numbers of them have.

A correspondest of the Philadelphia Press says:-
"Six milos from me lives a rich farmer, made rich by furming, who has a lawn which is so ornamonted that poopla ride milea, I smong them, for the pleasure of looklog at it. This man has expended a little monoy not only, for his own gratification, but to creato "a thing of beanty" for all of us who pase slong the rome."

Litite Falls, N. Y., is the largest interior dairy markct on this coatinent, and probably in the world. The phole number of boxes of cheese sold there during 1581 was 289,972 , and the sum brought jy them was two millions of dollars. Utica, N. Y., is not far behind, the sales there for the same jear having been 240,748 boxes.

Thas Birdsell Manufacturing Company, of South Bond, Indisns, U. S., advertise as follows:-"To every farmer sending us his name we will send The Clover Leaf, an eight-page, forty-eight-oolumn farmer's paper, fall of valuable information on the culture and harvesting of olover for soed." Wo carnestly advise overy farmer who reads this offer, to send a postal card, with his address on it, at once.

Tae N. Y. Tribune adys that Mr. H. Boo, Kearney, Neb., commenced planting seeds of forest trees in 1875 , and estimates that he has 45,000 soft maples, white aehes, cotton woods, box clc̄ers, gray willows, locusts, and black walnuts, of all sizes up to thirty foot high, and as many inches in circumference. "Thero will cortainly bo enough to cut ont from now to keep two or threo families in wood if judicionsls donc."

Tuns would be a far nicer world to live in if mankind could be persuaded to do business without the aid of lying. The Kentucky Legislature is trying legal sussion in that direction. A bill has been introduced into that body deolaring "that any one who, by word of mouth, attempts to deceive his fellow-man, shall be fined not less than $\$ 1$, nor more than $\$ 20 .{ }^{.}$. If that bill becomes law, and is duly enforced, it will be safe even to trade horses in Kentuoky.

Ir is a matter not sufficiently known, that sheop give material asciatance in beeping land freo from Feeds. Many of the most pernicions weeds with which farmers have to contend are generally relished by sheep, in their early or soft state, and ultimately eradicated in this way. It may also be observed that the younger tho pastures are When the sheep are pat to graze, the more effectual they will be in kecping in subjection and finally killing out the weeds.
Tue Holstein breed of cattle illustrated in this number of the Rural Canadian is already widely diffused in the Enited States. Vol. V. of the Holstein Hord Book is just publishod. It contains a large amount of information concerning this breed of cattle, and carries the number of recorded animals to 2,758 -bulls, 1,088 ; cows, 1,720. The book is for sale at cost price, $\$ 1.50$, post-paid, and can be had of the Seoretary, Mr. Thomas B. Wales, Jr., Iowa City, Iowa.

A man in Burlington, Now Jersey, has discovcred a process by which watermelons can be kopt fresh and good all winter. He sold a number to Philadelphia dealers the other day at a high price. American cpicures are so fond of this fruit, that thare can be little doubt there will be a brisk demand for it "all the year round," if it can be supplied. Bat looked at in the light of healthfal ness, it is doubtful if watermelon-eating is commendable in the winter time. It is risky for some people even in the summer season.

A recent editorial in this journal, on Professor Brown's address before the Markham Farmers' Club, contained the statement:-" He makes the startling assertion, that wero overy farm in Ontario possessed of a properly managed fivo-acre permanent pasture plot, the gain to the whole conntey would be $\$ 5,000,000$ annually." At the Belleville Dairy mecting, held the other day, the Professor stated that the amonnt should have been $811,000,000$. We quotod from the Markham Ficonomist, and gladly correot the figure, as it makes the statement moro than twice as "start ling." We hope it will staxtle many of the farmers of Ontario to do their part toward realising this immanse possiblo gain.

Because they wear such thick, warm coats, many suppose that sheep do not need any shelter in winter. This is a great mistake. When the Feather is drizzly and oold; whon bleak winds blow; when there are iong continued snow-storms; and when the thermometer gets into the zeros, they should be housed. No animal on the farm Fill do 60 poorly in closo, ill-ventilated quarters as a sheep. But the faot that, in rough weather, their instinct impels them to huddle together on the lee side of a hill, fence, or any friendly protection, proves that they should not be consigned to helpless exposure. An ample shed, tight and suug on the side whence the provailing winds blow, but open on the warm side, should be provided. Under such a shed, there should be racks oommodious enough for every sheep to feed at once, and they ought noyer to be compelled to buy comfortable shelter at the price of starvation.

At the close of Professor Brown's admirable address on the pnsturage question to the dairymen assumbled at Belleville, that shrowd old farmer, Hon. Harris Lewis, of Frankfort, N. Y., made somu highly complimentary remarks. Among other things, he said:-
"The lectaro and diagrams socompanying it woald, it acted upon, be of rastly more value to the Prorince then all that the maintonanco of the Agricaltural College and the Experimental Farm would cost in forty years. He thought that the Kontucky blue grass mas indigenoas to the soil of North America from the 94 th parallol to the North Pole At the sume time, there were some soils that
vero not as well sidated for it, while othera were fund to wero not as well adapted for it, while othera were found to
produce it in creat luxariance. Fe did not think timothy produce it in great luxariance. He did not think timothy a good pastare grass. It had a large bulbous root at the very surince of the groand, which was subject to be oogited
by the hoofs of the animals, or scorched by tbe sun in dry. hot weather. The suguestions of Prof. Brown thoroughly met has approval, and in view of tho system of soeding pursued by Oanadian farmers, they wero particalarly well. timed Prof. Brown had given them not only thoroaghly sonud thoory, bat bed very lacidy demonstrated how his theory could be pat in practioe.

There need be no difficulty, surely, about teach. ing agricalture in common or any other schools, now that an enterprising lady has demonstrated that it can be done cven in a "Kindergarten." A. New York Tribune reporter attended an oxbibition of one of these institations, and writes as follows of what he saw:-
"A shallow box, threo feet broad and aboat cight feet long, fillod with certh, stood at one side of tho room This reprasentod a field ready for planting spring Fheat. In another hox aroen whent was growing. One of the bogn
took the part of the farmer, and directed three or four others in the farm work. They ploughed the ground, and harrowed it with miniature implements; then sored tho whoat and harrowed it in. Tho boa with growing wheat was abandoned to the catle by the young farmer's diree. tion, as it is a hopeless crop from files, worms, thisties, daisise, ard other enemios of wheat. The wheat from the - wiet Jot' Was then throshed with fkils and tatean to the mill, whers Graham flour and white flour were groand from it. The mill raw a coffoo-grinder. Then the farmer's Fife (one of the little girls) Fent throngh the prosens of ont ingredients ased und their proportions. A! intorvals litluo chorases asag songs in praiso of famm life."

## FARM AND FIELD.

## PASTURAGE IN ONTARIO.

ProfessorBrown, of the Agricultural College, Guolph, gave an oxcellent praotical addreas on the above subject at the recent annual meeting of the Eastern Dairymun's Association in Belleville. He went over part of tho same ground traversed by him in his address before the Markham Farmers' Club, recently roported in these columns; but the following extrasts embody, for the most part, entirely new matter, and will woll repay careful perusal:-
"It was ubvious that tho Untano farmors stood in noed of pasture that -First, gives seioral crups per annum ; second, offors an carly and lato bite; third, cannot bo destroyed by druught or frost; fourth, gives cannot be destroyet by drought or frost; jourth, gives
the largost quantity and best quality of daury produco the largost yuantity and ucst quality of darry produco
at the least possible cost; fifth, gives the largest quanat the least possible cost; lifth, gives the largest quan-
tity and best quality of bef and mutton at the least cost ; sixth, can be used as a soiling crop; seventh, keeps animals in the best health; eighth, is inexpensivo to produce and maintain; ninth, is reliable nt all times, and permanent. In establishing a permanent pasturo, it was desirable that the kinds of grass selected should not all, or even many of thom, ripen during one moath or leave off altogether at the same time of the year. Beginning in 18:7, they had had very great satisfaction in building nine grasses and five cluvers, in contion in buithing nine grasses and dee clivers, in conThe lecturur here exhibited a diagram showing all the The lecturur here exhinted andagram showing all the plants mentioned in the order of precedence. He
called particularattention to the Lucerne clover, which called particularattention to the Lucerne clover, which
gave the yasture a start at the ond of April, nud congave the pasture a start at the ond of April, and con-
tinued right into the snow. Its persistent monthly reproduction of a branchy succulent, giving sixteen tons per acro per annum, made it the king of soiling crops, and the most reliable in permanent pasture because of its repeated annual gromths and durabilityIt was the only safe starter in April. The cominon red clover was not much behind, but only good for two cuts or 'bites' per season It did not give a monthly crop like the Lucerne. The famous British soiling grasses, Italian and perennial, followod these; and under very favuurable circurastances helped from May to part of September. The people of Ontario would he surprised, indeod, rero they able to grow these grasses as at Edinburgh, Scotland, where the annual rent, by cuttings for dairy cows, fetches 8160 peracre. Fan oat grass was a four months' crop, and a thoroughly reliablo one in any weather. Indeed, along with timuthy, urchard meador, fescue, and fan oat made of themselves all the bottom and varicty tho most of graziers nced desire. Meadorr fescue was a strong plant, not afraid of heat and difficultics. The common trefoil or yellow clover, while not much relished by animals, was yet of account in regard of rarioty, and stood well between the early red clover and rioty, and stood well betweon the eatiy red clover and
tho Jater white and alsike. The hunchy, strong, selfwilled orchaid was one of our standards, safo to stand, though equalled by meadow fescue and fan oat. In respard to the drought difficulty, it was not necessary to say much about timothy, the American hay plant, which was certainly of immense value in the list. It was later than some other grasses, but 18 always prezent from the end of May on to winter. Tho Kentucky blue grass was but one of the many members of the same family, common in nature all over the continent. Late grasses were not generally valuablo feeding ones, and in his list were two-red top, and bent-which were not high in any part of the world for rich produce. As would bo scen by tho diagram, the combiduce. As would bo scen by tho diagram, the combination of grasses which had just been described rould
furnish one grouth in April, nine in May, thirteen in furnish one growth in April, nine in May, thiricen in tember, and four fresh in October. This, he thought, should meet the desires of the most fastidious of cattle and sheep. In spite of the severe drought of last summer, the experimental farm pernisnent pasture wasnerer bare nor wanting a fresh bite, though heavily stocked, but so close and strong ras the growth that it had to be soparated with the hand in order to afford an opportunity to examine the surince of the sonl. The lecturer then proceded to give the result of experi-
ments or observations as to the conduct of some of the ments or obscrations as to the conduct of some of the principal grasces as they stood in separate plots, side
by side, on Aucust $30 t h, 1881$. Ryo grasses and porennial chiefly look fresher, and are botter as pasture than red top and timothy. Fan oat is about equal to mosdow foscuo, which is saying a good deal. Meadow fescuo stands the drought better than orchard and timothy. Close, rich green, and vigorous orchard is somewhat behind meadow fcscuo and fan oast, but not much. Timothy is vory good, but presents no bite for cattle. It is dry and somewhat withered, and takes a fourth place Kentucky bluo grass is wiry and dry, with a good swand. Rod top, a good tough bite. The locturer noxt adverted to the fact thast dur-
ing tho last half contury tho bost managed old pasturos of England had atood at more valuo por aoro than tho richest armble land, partly beenuso of thoir permanoncy and tho roliability of crops ; and largely becnuse of their being nblo to graze three cows por acro. He thought there wns no ranson why Ontario could not at least do ono-third an woll as England had in this respect. For threo yoara in succoseion on the oxporimental farm, on a amall scalo, on comparatively old, permanent pasture, as well as on thint of two yonrs standing, thoy had clearly proved that sevon shoep por acre could bo woll grazed on permanent pasture. There was thorefore no othor form of fodder thant could do tho samo thing. Tho avomgo timothy and clover pastures of the Provinco in counection with mixed farming, just grazed ono animal to oyery three ncres, laking from the firat of May to the middle of Uctober. On an average of years it hand been shown that throo and threc-quartor cows could be kopt on threo neres of permanent pasturo of tho kind required, and as two-yoar-old steers and heifors preparing for the butcher eat more than ordinary milch cows, ho would say ono beefing animal per acre. Thero were at present $20,000,000$ of arable acres in Ontario, possessing practically no permanont pasture, but $3,500,000$ acres of rotation pastures that do, or should, maintaia $1,190,000$ head of becfing cattle. If there was only one-tenth of this rotation pasture under permanent form, tho amual gain to the Province would exceed $811,000,000$. Tho magnitude and material value of a fow acres per farm in tirst-class permanent pasture was thus apparent. When overything was propitious, and whore nu regular sulhng crops wero upheld, continuous crops could always bo had from well-managed permanent pasturo, early and late, at ten tuns per acro green weight. While at could not bo maintained that there was no trouble, timo, and expense incurred in establishing successfully nermanency and yalue could be upheld without fertilizing materinls, it was difficult to see that once fairly afoot, permanent pasturage cost a great dcal less per acre each year, proportionately to the produce recewed, than any other cr ps could possibly du. The successful establishment and maintenance of such a pasture retenta: hirst, a favourable position ; second, a deep, retentive, dry soil; third, a rich, fine, friablo surface; parth, early, thick, shallow feeding; tifth, no accompanying crop; sixth, no grazing during the tirst year, very littlo the second year, but heary in after years; seventh, fertilizing every third year.'

## WHEN TO SOW URCHARD GRASS.

In reply to a correspondent, the Louisville Jourmul says: Sow as soon as you can work the ground in spring, and on until the middle of April. For field culture use one and onefourth to one and one-half bushels of seed per acre; for a thick lawn, two bushels.

## MORE ABOUT I'HE " FORMS."

Rural New Yorkcr: Pasteur's observations of the action of worms are scarcely less remarkable, though less extensive, than those of Darwin. During his iuvestigations as to the suspected propagation of virulent diseases by bacterial germs, a case occurred of cattle being attacked by splenic fever in pastures where they were isolated and apparently not exposed in any way to that particular infection. It turned out, however, that several years ago animals dying of that disease had been buried there, but very deeply. It occurred to Pasteur that although these carcases had been covered with ten or twelvefect of soil, the deadly germs might be brought to the surface by earth-worms. On inoculating rabbits and guinea-pigs with matter from the alimentary canal of some of the worms, all the symptoms of that form of anthrax were exbibited.

## SILOS-ENSILAGE.

Country Gentleman: In answer to a question our contenporary says: Its disadvantages are-1st, the cost of the silo; 2nd, the cost of machinery for cutting with horse or steam power; 3rd, the necessity for cutting the fodder and filling at $a$ busy season of the year, or near the time for sowing winter
grain. The advantages aro-1st, a sure method for proserving tho fodder in a frosb state, without the usual loss of long exposure to rains; 2nd, the ontire consumption of the whole fodder, stalks and all; 3rd, the rendy digestibility of the fodder, shown by the increase of the milk of cows in bulk and quality, in all cases where properly tried.

## CLAY UPON SAND.

New England Homestead: An articlo in the "Homortead," setting forth the efficacy of dressing mowing land with clay, reminds us of what a successful Vermon' farmer told us not long since. The suil of hus farm is a sandy luam, quite exhausted when he came into possession. Not far from the barn is a clay bank, from which he has annually filled his barn yard, for use as au absorbent. Carting it upon the light land, it not only served as manure, but also added to the sandy soil just the tenacious, heavy material it required. As our friend said, "That clay bank has saised my crops, supported my family, paid off the mortgage, and sent my son to college and my daughter to the seminary."

## FENCES.

It is, of course, next to impossible to do away with fences altogether. Division fences of some kind are desirable; yet thousands of miles of useless fences exist throughout the country, which the thoughtful farmer should seek to remove. Few realize how costly a fixture the farm fence is. Illinois is said to have ten times as much fence as the whole of Germany, and it is claimed that Dutchess county, N.Y.. has wore than all France, Germany and Holland combined. A few years since, in South Carolina, the improved land was estimated to be worth $\$ 20,000,000$, while the fences at the same time had cost $\$ 16,000,000$. The annual cost of replacement is at least a tenth of the first cost. A calculation made some eight years since placed the cost of the fences in the United States at $S 1,300,000,000$. More than forty years $\mathrm{g}^{2} \mathrm{~g} 0$ Nicholas Riddle said the fences in Pennsylvania had cost $\$ 100,000,000$. In Ohio they have cost a still larger sum; while in New York, only a few years since, the estimated cust of the fences was $\$ 144,000,000$. Some time in the future many fences now in use will disappear, and boundaries will be marked with fruit and shade trees or neat hedge rows. -American Cultivator.
Mr. Joseph Harris, in his "Talks on Manures," says that we can make our lands poor by growing clover and selling it; or we can make thern rich by growing clover and feeding it out on the farm.
A few years since, says a writer, $I$ had an old pasture that had almost run out, covered with weeds and patehed with moss. I mixed a few barrels of salt and wood ashes, and applied about two barrels of the mixture per aire, covering about half the lot. The result surprised me. Before fall the moss had nearly all disappeared, and the weeds were rapidly following suit, while the grass camo in thick, assuming a dark green colour, and made fine pasturage. The balance of the lot remained unproductive as before, but the following year was salted, with like results.

## BEES AND POULTRY.

## ARE POULTRY PROFITABLE $\}$

## Editor Rural Canadian.

Sir,-Laminreceipt of the second number of the Rulal Canadian, have read it, and like it first-rate. Knowing by whose hand it is guided, I am satisfied that it will be a success. The first two numbers are so full of real useful knowledge to many others as well as the farmer, that they cannot fail to be appreciated by the rural poople of Canada.
In looking over No. 1, I see in the Poultry Department that you doubt the prufitableness of keeping poultry where all feed has to be parchased from the market to maintain them. Just so. I know that the profits should be rather meagre to do so; but take into consideration any other stuck that is reared and made use of cither on or off the farm. Will it secure the amount of profit compared to capital invested that will be secured by poultry? Well, sir, I do not believe there is anything that can equal this kind of stock, except bees, and that is because "they work for nothing and board themselves."
Take a cow, for instance, at three years old. If a man had to buy everything she fed upon fron calfhood until of that age, I presume her sale "at even a good round price" would not cover the cost, or anything near it. Or, even after first giving milk, not one in a hundred can make it pay to keep a cow and buy all the provender she cousumes annually, taking one year with another. The year before last, I heard many farmers say that the prices realized for butter did not pay.
What better is the average horse, sheep or swine? Hundreds of farmers will tell you, time and again, that "they eat their heads off:"

Now, sir, I hold that the real profits derived from farm stock cannot be enumerated in the dollars and cents expended in purchasing market feed, but by marketing feed in and through farm stock by feeding it to them; thus retaining the droppings or excrements made from such stock while being fed with such products as are raised on the farm.
I have been paying considerable attention to the rearing and marketing of poultry, both for slaughtering and breeding purposes. It has paid me better than I expected, notwithstanding the many dollars' worth of feed purchased on the market, but the greatest profits are derived from feeding my own produce. Notwithstanding the good prices derived from butter this year, our poultry has paid us better than cows, or anything else handled on the farm. Our greatest profits have been from selling stock as breeders, but it is enormously expensive to run this line and be successful.
I see that you have been through the mill; very probably you were like many others. The hen fever got hold pretty strong, and you tried to run half-a-dozen varieties at the start, when you had not mastered even the first principles of breeding. Hence the reacation. I started with but one variety, but it was hard work to confine myself to it. I purchesed ever so many books, and read and observed whenever an opportunity for so doing presented itself. The past ycar we had twenty varieties, and every one paid a handsome profit.

But advertising is the main source of it. This pays, even considering the great outlay it involves.
R. A. Bnown.

Cherry Orove, Ont.

## PREPARE FOR SPRING WORK INTHE APIARY.

Right now is the time to get ready for our season's work in the apiary. By-and-by our bees will be coming out from their winter quarters, and we shall then be so busy attending to their wants that the little items, which have a vast bearing on the success ur failure of the honoy crup, will be neglected ur entircly omitted. And say what we will about the pleasures of bee-keeping, the stublorn facts of the case are, that we are after the dollars and cents of the business, with very few exceptions, and they who expect to make a success of bee-keeping, to get large yields of huncy, or increase of swarms, withuut attending to the little things of the business, need expect naught else but a failure in their efforts. Let us begin to get our " house in order," these long winter evenings; let us spend a part of the time in discussing what we need to do to help our little pets when the time comes for them to work. Most of us have but little to do during the winter season, and the busiest ones can spare now and then a day to the bees. Last fall, in the hurry of getting our honcy ready for market, and the bees packed away nice and snug for winter, many of our tools and fixtures were set to one side, tucked away into the handiest place at hand "for now," meaning to clean them up by-andby. That by-and-by has come now; here we go at it with a vim. First is that pile of unfinished sections that we extracted the honey from last fall, and put away in a hurry. We get them all together, and with an old broken stub knife we will scrape off every bit of propolis smooth and nice, so that they will go together like now ones without any bother. There, see what a nice lot of them we have. Won't the bees fairly laugh to get at them? The mice have got at a few of them; we cut out their nibbling, unless soiled too much ; if so, cut out all of it, and replace with a good piece of comb foundation. Now we will estimate about how many cases of sections we will need to use this season, and use our part-ly-filled sections accordingly. We ought to put in one or two of them to each row of sections to give the bees something to climb up on, which seems to help them very much. Then there are the honcy boards, or cases, to hold the sections on the hive; we must clean them all up too, then put in the sections, tin separators, and wedge all up firmly, and set up on the shelf ready for use. It is not always best to put on a full complement of sections at the first, so when the time comes we can only put on so many as we judge the stock can take care of best. Now for the hives and extra combs. We look them all over; dig out a mud dauber's nest here, a patch of propolis there; clean them all out. Our frames of empty combs need pruning some-a bit of draw comb hore, another spot where the moth may have spoiled it-and fill up the vacancies with a piece of foundation. This work you will need to do in a warm room, for foundation and comb are brittle things in cold weather, but propolis comes off the best where
it is cool. Then there is our old smoker ; look how it is "stuck up," not with pride, but honey and soot. Don't forget to clean that up too, and set the old shop to rights generally, and wo will find plenty to do, I will warrant you. Now let's see-have we got as many sections and as much comb foundation as we will need this senson? I don't believe we have. And now we have been pretty busy, and got rather tired; to-night we will write out an order to send off to-morrow to the dealer for the needed supplies. If we order now, he can get our goods ready at his leisure, but after a while he will be so busy filling orders that we may have to wait, and luse preciuus time, for when the hnney is coming in fast, time is honey, and honcy is money. "In times of peace, prepare for war." Go now, got ye ready for spring work!"-Cor. Prairic Farmer.

## suilling PuUltry.

Mr. Geurge May Puwell cites the case of a family who, un a village lot, raised two kinda of fancy fuwls, fur which they have gained a reputation in the community, and for which, and for whose eggs, there is ready market for breeding purposes at moderate, but paying rates. He also mentions a poor widow who, on premises equally contracted, raised eggs, the sale of which was the principal source of support of herself and two children. A leading feature of her successful management was "soiling the poultry," especially in winter. The ingenious method of accomplishing this is described in the Christian Union, and, looking in the same direction, a plan is suggested which is otherwise advantageous in two or three ways:
"She kept the south windows of her house full of trays about eighteen inches wide, three feet long, and three inches deep. These trays were filled with earth and sowed with wheat. The earth was kept well watered, and the grain grew with remarkable thriftiness. As often as the spires or foliage grew to be two or three inches long, she clipped it with her shears and fed it to the laying hens. This soiling method may be enlarged on and supplemented by a system of grazing. Few sights are more desolate than most gardens in late autumn, during the winter and in early spring. Much of this may be changed. As late even as the sunshiny days of the last of November, and which extend often into December, the whole surface of the garden may be raked over and sown with winter wheat or winter rye. Of course it is better to be done in October. It will do often, however, as late as November or December. This winter grain comes up, and during the late fall, at open times in the winter and in the carly spring, it furnishes first-class grazing for the hens, increasing their laying qualities to a remarkable degree. At least a bushel of seed should be sown on a quarter of an acre. This is more than double the seed used when sowing for a crop of grain. It makes the ground look even and green, instead of rough, disorderly and desert-like. It therefore pays abundantly for the trouble and expense, simply as an element of beautifying the premises and making the home surroundings look cheerful Last, but not least, the heavy growth of green, when turned under in the spring, more than pays for itself by fertilizing for the next season's garden growths. The chief gain on the whole operation, however, is the grazing it supplies to the laying hens."

## HORSES AND CATTLLE.

HOLSTISIN CATI'LE
At the recent dairy meetings held in Woodstock and Belleville, several references were made to a breed of cattle highly estecmed in their native country, Holland, and already well distributed in the United States, but unknown in Cannda, excopt by repute. . Mr. Ballantyne, $\Omega$ high authority, has expressed the opinion "that we have now no cattle equal to the Holsteins for dairy purposes." The Ontario Agricultural Commission collected some valuable information concerning this breed, which will bo found at length in Vol. I. of their admirablo report. They also expressed the opinion that it would be well if the Government through the Agricultural College, or some of the many publicspirited breeders of the Province, would undertake the task of introducing these animals into this country. They are a distinct breed of horned cattle, with marked characteristics;
 jus. in 8 months. $P$. of Boamstor, 4 yoars old, $65 f$ lise.
 10,113/i ibs. in 8 months. Sappho, 3 years old, 04 lbs. in 1 dny; 1,755 , lWa . in 1 month; 0,502 d lus. in a months; sold. LAndy of tho Lako, 2 years old, 45y! lbs. in 1 day:

 1.243; Ws. in 1 month; 6.041 g Ibs. in 6 months; 8,220 f
 6,860z ive. in 7h fuonthe.
"Nothorland Queen mado n two-yoar-old record in 1870 of 58 lbs. 12 oz . in one day; $1,070 \mathrm{lbs} .9 \mathrm{oz}$. in ono month, and $13,574 \mathrm{lbs} 3 \mathrm{oz}$. in ono yoar. Naid of Parmor ill 1879 made a two-year-old recurd of $10,893 \mathrm{Jbs} .1 \mathrm{oz}$. it one jear."

Messrs. Smiths and Powell, after giving the foregroing figures, go on to sny :-
"Wo havo made a careful study of the breed, its origin. growth, native country, its prominent characteristics, eto., and after sevoral trips through Molland, visiting many farms where theso cattlo are, importing, breeding, and ol. sorving the offect of change of location, wo have decided in our own minds that thoy aro the coming breed for milk, or milk and beef combined. Our herd now nam. bers nbout 150 head, and our record proves their suparior merit."

## BREAKING HALTER-PULLERN.

The following is a cheap, safe, and sure remedy for breaking even the most confirmed
halter long enough to let him settlo back a foot or two when he is ready to perform his nccustomed trick.s

After fastening him securely in this manner, step aside and watch the result. When ho settles back to business he will find an impediment in the rear that will bring him up with a round turn, and you will seo the surprisod $a$ horse as over was foiled in a vicious trick. If he is not inclined to pull at tirst, contrive $n$ way to get somethin ${ }_{0}$ in front of him to frighten him a little, and encourage him to exert himself vigorously once or twice, and after that you probably cannot induco him to make the attempt. A few lessons of this kind will break the worst cases, and the cost will not exceed the value of the cord, while all risk of injury is avoided.

## IRAINING A COIT.

Bad horses are more frequently made than born. It is very much in the bringing up-

holsteln bull, " Uncle tomi"-Omsed ar Smitu and Powehl, Stacose, N.Y.
colour, spotted black and white. They have a larger frame than the Ayrshires, and are therefore better adapted for beefing when no longer serviceable for the dairy. The accompanying illustrations will give a good idea of their general appearance. They represent specimens from the herd of Holsteins owned by Messrs. Smiths and Powell, of Syracuse, N.Y., and the following extract from the milk record kept by this firm will show how excellent are the milking qualities of these cattle :-
"Milk records of thoronglibred Holstein cows of the hord of Smiths \& Yowell, for ono day, and for ono to sir monthe, according to time in milk, to date Auguat 24th:

- Neilson, 7 years old, 74 l lbs. in 1 day; 2,206 ${ }^{\circ}$ lbs. in I month, $9,805_{1}{ }^{3}$, lbs. in 6 months, $11,744 f^{1 \mathrm{lbs} \text {. in } 81}$ months Jannek, 7 years old, 719 lbs. in 1 day; 2,1104 monthe. Egis, 6 ycars old, 82 电 lbs. in one day, 2,289 , ${ }^{2}$
 in 9 monthe. Ággio, 6 yasrs old, 84 Z lbs. in 1 day;
cases of halter-pulling in horses. Take $a_{j}$ in which it is broken. Firmness with hind-half-inch cord twelve or fourteen feet long and double it in the centre, place the middle of the cord under the animal's tail like a crupper, cross the ends on his back and carry them forward under his neck, tying them firmly in front of and close to his breast; buckle a surcingle or tie a cord around his body, just back of the fore legs, to keep the cord which passes under his tail in place; put a strong head halter on him which has a rope attached instead of a chain; have a strong iron ring fixed to his manger, placing it in such a manner as to allow the rope of the halter which passes through it to slip ensily; place the end of the rope which is not attached to the head-piece through the ring, carry it back to his breast and tie it firmly to the cord which passes under his tail, leaving the
ness goes very far in making a valuable horse. The colt should early learn that it is never to be deceived, that it is to be encouraged and rewarded when obedient, and punished by the withholding of caresses when disobedient. The same natural qualities that make a horse vicious, will, with proper treatment, make one of those intelligent and spirited horses that all desire to possess. The true trainer of colts is gentle, loving, firm and thoughtful, and the young animals of his charge partake of the same qualities.

Messns. McGregor \& McIntosh, of Brucefield, have disposed of their young heavy draught imported stallion, "The Major," to Messrs. Colquhoun \& Dow, of Hiblert, for the sum of 52,000 .

## TEE DATRY.

## TIIE A B C OF DAIRYING.

The Editor of this journal gave an address on the above subject, before the Dairymen's Associntions of Western and Eastern Ontario, at their rocent annual meetings, the main points in which are summarized in the following verses:-
Thoro once was a dairyman whom I know well, And somo of his history now I will tull: Ifo started a a airy with much show of gloo, But neglected to study his A is 0 .

His cows wero poor milkers, and didu't repay Tho cost of thoir kcoping, in pasture and hay Ho got littlo manuro, and threw it out.doors, Where the sun and tho rain atolo half of its stores.

His pastures wero bero, and his cattlo were lean, That ho was not thriving was plain to bo seon ; So he got a fow picg, and was heard to bay. "I'll make me some money by feoding them whoy.

His pigs didn't thrive any more than bis cows, And he found himself poor as any church-mouec Till, thinking, at last he camo plainly to seo, Ho was wrong in not learning his ABC.

Then ho mado up his mind, and to himself said
"I'll harbour no cow that eate ofl hor head;"

## BUILDING UP DAIRY IERDS.

fhom an addiegs iny the editon of tilk nubal camadian to the daimimen of ontamo.

The first letter in the dairy alphabet is C , which stands for cow. When I had the honour of addressing you two years ago, I ventured the opinion that not more than fifty per cent. of the cows composing the dairy lerds of Ontario yielded a profit to their owners, and the great burden of my song was, "Weed out the roor cows." Gentlemen, has this been dune? Have you learnt this first letter of the dairy alphabet? Who among you dare bring his worst cow and exhibit her at this convention? Wouldn't you rather shoot her than show her here? Well, any man who keeps a cow that he is, or ought to be ashamed of, has yet to learn the first letter of the dairy alphabet. The dictionary definition of the word "cow," is, "a female of the bovino race, a quadruped | with cloven hoofs, whose milk furnishes an

What was unce known in the State of Massachusetts as the "Cream-pot" breed of cows, and could not help thinking how practicable is would be to have such a breed in every rural neighbourhood. It was originated by Colonel Samuel Jacques, of "Ten Hills Farm," in Somerville, Mass. Having olserved that one cow in a herd inight produce three pounds of butter a weok, and another nine pounds on the same food, Col. Jacques thought he would try to effect an improvement in the way of securing a strain of cows that would give the largest possible quantity of rich milk. He is said to have found a "native" cow, raised in the town of Groton, giving milk so rich that it was often converted into butter by the simple motion of carrying. Shorthorn blood was the means chosen of fixing permanently this heavy milking tendency. The bull Calebs, imported in 1818, was used, and a course of in-and-in breeding pursued for four generations, and yet, instead of injuring the milk secretion, the experimenter was at length able to boast that he

holstely COW, "Netherthand queen"-Owned by 8mithe and Powzle, Sthacuby, N.Y.

So ho beefed his poor milkers, and got in their place $\Delta$ fer first-class cows, of a milk-giving race.
llo stabled them warmly,-housod all the manare, And spresd it abroad on his land that was poor; A pit for the arine, a tub, and a pump.
Gavo bis meadors a dressing that mado the grass jump.
His fortunes began to go up with a bound:
His wallot got plamp, and his faco became round;
Ho padd off the mortgago that corered his lanu,
And, no longor in dobt, bought with cash in his hand.
His home very boon quite improved in its looks, Ho took the best papers, and bought some choice books, Increased the sabsoription he gave to his charch, And left pororty far behind in the lurch.

His sons became cager to got some knowledge, And went to tho Agricaltural Collogo,
Bocame woll-to.do farmors, Reoves, M.P.P.'B,
And his daughtore got husbande who "had tho checse I
And, now ho is old, he sits calm in his chair, With plenty of time, and somo money to spare ; $\Delta$ pronperons dairyman ho came to bo, propperoas dalis learning his A B O.
abundance of food and profit to the farmer." But you can't always trust even the dictionary. A cow is often "a quadruped with cloven houfs," that, like a certain biped with cloven houfs, is better at promising than performing, and the less we have to do with such animals, whether quadruped or biped, the better. Both make fools of us. The o one holds out the Jure of gain to land us in loss, and the other holds out the bait of pleasure to plunge us in pain; so that without the slightest irreverence or profanity, it may be said of many a female bovine, "She's a devil of a cow," even though she hasn't a bad temper and isn't a kicker.

It is so easy, comparatively speaking, to learn the letter C , that the wonder is so many stick at it as they do. I was reading only the other day, a most interesting account of
had a cow whose milk produced nine nounds of butter in three days. Though the "Cream. pots" were lnng famous, a permanent breed was not established, but an example was set which only needs to be followed, to fill the land with "Cream-pots," instead of skimmilk jars. "What man has done, man can do." There is no district of our country where there are not more or less of " native" cows that have earned the renown of being extraordinary milkers. You can buy one of these natural "Cream-pots" for far less money than a thoroughbred cow of any breed will cost, and for dairy purposes she is just as valuable. In every such district, a good Shorthorn bull can be found, so widely is this valuable breed now diffused. Here then is the foundation for a dairy herd, ready to hand. Why do not our dairymen build ou it?

I don't think it is indifforence. The supposed oxpense and delay of the process are probably the chiof hindrances. Most peoplo have tho idea they must begin with a fabulous priced Jersey or Shorthorn, and that discourages them. Then thisy want immediato results, forgetting that "the more hasto the worse speed." To start and build up a "Cream-pot" breed of cows, is within tho ability of every thrifty, well-to-do dairyman, and he will become more thrifty;and better-todo, by taking this course. Fower and better cows; more calves and heifers; less of dairying as a specialty, and greator attention to a mixed husbandry; these are the milestones of progress, that measure the road along which our dairymen ought to travel.

We are constantly reading of incredible sums of money having been paid for fancy cows and bulls of popular and fashionable breeds. The Shorthoru craze reached its acme in the $\$ 40,600$ cow sold at the New York State Mills suction in September, 1873. The Jersey craze is now on its upward march. It has reached $\$ 1,400, \$ 2,500$, and $\$ 3,000$ for cows ; $\$ 3,500$ for the bull "Farmers' Glory," and 34,000 for the bull "Polonius," and how much higher it will go, goodness only knows. Meantime, it is undeniably on record, that grade Shorthorns have beaten the thoroughbreds as beef producers, and that grade Jerseys have equalled those with all the fashionable points in milk-pail performance. Farmers and dairymen ars shrewd enough surely to draw their own inferences from such facts, and to leave speculating in fancy animals to the class of whom it is proverbial that they and their money are easily parted. Meantime we ehall not err, if we go on quietly improving tho best strains of native cattle.
It will be inferred from what bas been said, that I go in for dairymen raising their own cows. I do, most decidedly, and for this reason, if there were no other, that I do not see how we are going to get rid of the scrub bulls until it becomes an object with dairymen to raise choice calves. Just so long as the only aim is to get a core pregnant in order to renew her yield of milk, we shall have our dairy districts infested with worthless male bovines. It may be said, whet $t$ matter, if the calves are all deaconned? They will not all be deaconned. Some will be permitted to live. All calves, like all babies, are pretty, and there are sentimental people who will spare a calf because it looks pretty, and it will survive to perpetuate the evil qualities of an unworthy aucestry. But, even if all worthless calves were sure to be slaughtered at three days old, the question arises where is our supply of good cows to come from? We will suppose thai in every dairy neighbourhood, one or more breeders make it their business to raise first-class milking stock They do it at the risk of their best cows forming a chance acquaintance with the worst bull in the region round about. Cows, like human beings, are given to sly courtships, and apt to contract fooiish marriages. You can only influence human beings by reason, persuasion, and motive; but you can absolutely control cows and bulls; you can render it impossible that there should be improper mating, and the best interests of
dairying domand that it be done. Boside all this, there are other good and sufficient reasons why dairymen should raiso their own cows. It is the true business-like way of going to work. The law of supply and demand requires it. I hold that overy calf should live until it oithor produces beof or milk. When calves are too valuablo to be sacrificed for "deacon skins" or for veal, they will be allowed to live. Is it objected, that then thure will be no veal in the shambles? It would be a good thing if there were none. Veal is no more fit for human food than an unripe apple or a green blackberry. I don't subscribe to the old English doggerel:

## Winegar, Feal and wenison.

Are wery good wittles I wow."
Besides, a fatted calf is never converted into veal except at a dead loss to somebody. I defy any man to produce a six weeks' old calf fit for butchering at a less cost than \$10, and 35 is about the top market price for it. With the large and growing demand for beef and dairy stock, there is no need and no excuse for killing a single calf unless it be hopelessly deformed, and I wish there were a law against it. We have laws for the protection of game and wild animals; why not have similar laws to prevent the destruction of calves? Every slaughtered calf is a losa to the country. If it were once made illegal to kill calves, very few would be raised but such as are fit to live, and the gain to our stock interests would be immense.
Further, I would ask, is there any more profitable mode of farming than to raise a creature that, at from two to three years old, will be worth \$30 or \$60, either for beef or milk? Then, there is the satisfaction of raising your own stock, and seeing it improve before your eyes. Every man should pursue his business so as to derive the largest amount of pride and pleasure from it , and there is honest pride,-there is a pleasure in surveying a herd of sleek animals, every one of which has a well-known history, and belongs to your own out-door family. Moreover, it is a well-attested fact, that cows do best on the farms where they have been born and bred. They have a home feeling, as well as human beings, which it is well to cultivate.
I think I have made out a strong case in favour of dairymen rearing their own cows. But if you are not convinced-if for any reason you think you cannot be your own cow producer-still heed the advice to keep no animal that you are not sure yields a profit. Have no cow devils about your premises, to deceive you with delusive hopes of gain, that never can and never will be realized.
I am glad to know that this subject attracted prominent attention at the recent meeting of the American Dairymen's Association, held at Syracuse, N.Y. No less than three of the leading speakers read papers on it. Hon. J. Shull, of Ilion, spoke on the improvement of dairy stock by selection, transmission, training and feeding. Mr. S. Hoxie, of Whitestown, pointed out the possibilities and ways and means by which new breeds, better adapted to the wants of different sections of our broad domain, might be developed from the stock now in hand, building up on the soil and in the
climate and onvirons whore they are to live, American breeds, as, for example, a breed for Now England; for Now York and the Middle States; for the present West aud North-west; and one for the trans-Mississippi. Prof. I. P. Roberts, of Cornell University, presented an excellont discourse on improving milkingqualities through the selection of milking animals from milking ancestors, and maintaining them with high feeding and extraordinary caro; and he condomned emphatically the onesided practice so much in vogue with dairymon, of solecting choice dams for breeding, but disregarding the qualities of the sires.
I do not take much stock in the anxiety to get up distinctively American breeds. It seems to be a kind of needless aching for something purely national, and even sectional. Surely there is more of sentiment and fancy than of sound common-sense in aiming to get one breed for Now. England, another for Now York and the Niddle States, a third for the present West and North-west, and a fourth for the trans-Mississippi region. What is the use of throwing away the labcurs of othors? Cattle are cosmopolitan. The Shorthorn, a native of England, improves by emigration, and specimens have been sent back to the old world from the now, that have commanded the highest prices in the British market. Herefords, Ayrshires, Jerseys, Holstains, and Polled Angus cattle, all take kindly to the climate of this country, and make themselves at home here. He must be fastidious, indeed, and little better than a patriotic crank, who, for the sake of earning a national name, would start to do over again what has already been done so well, that it is doubtful if it can be done any better. If an improved American edition of the Shorthorn or any other breed can be got out, all right, but there is no necessity for going back to the place of beginning, in order to make progress. I notice with pleasure that our able friends Prof. Wetherell and Hon. Harris Lewis warned their dairy brethren against in-breeding, scouted the idea of American breeds, and urged building on the foundations already laid so well by European agriculturists and stock raisers.
The N. Y. Tribune, in reporting the meeting just referred to, makes the following excellent comments:-
"Though seeking it in different ways, all seemed inteatly aiming for the same end. The earnestness, readiness and force with which the speakers presented and defended their positions, showed that a good deal of attention has been devoted to the matter, and that a strong conviction is entertained of the necessity for, in some way, changing the nonpaying 'scrubs' for animals that will turn out better yields of butter and cheese. That this is not a spasmodic effort peculiar to this convention, is evidenced by the fact that it occupied equal attention at the late convention in Cedar Rapids, Iowa, and also at the recent meeting of the N. Y. State Dairymen's Association. There is clearly a thorough waking up in regard to the defects of cows now in use, running through the whole dairying fraternity, and a growing appreciation of the needless loss sustuined by yeeping so many inferior animals, which augurs well for improvement, and a consequent reduction in the cost of producing milk. It would have been zortunste if such a waking up had occurred years ago."

## Stientific and hstul,

To keep steel knives from rusing, rub rift mution tallow, wrap in paper and put into a baize.lined chett.
Wilitanino Clotires.-A tahlesponnful of turpentlue boiled with your white cluthes will greatly ald in the whitening process.
Zincs may be scoured, with great economy of time and strength, by using either glycer. ine or creosote in!xed with a litle diluted sulphusic acid.
Renoving Rust. -The easiest method of renoving runs srom irun is ruhbing it with a rag dipped in oit of iartar. The rust will disappear immediately.
Iron or steel immersed in a solution of cabbonate of polash or suda for a few min. utes, will not rust for years, not even when exposed tua damp atmosphere.
Oyster Soup.-In making oysler soup take two quarts of boiling milk, and put one quart of oysters, and add pounder cracker, salt, pepper, and butter. Boll five or ten minutes.
Glue frequently cracks because of the dryiness of the air in rooms warmed by soves. An Australian paper recommends the addition of a little chloride of calcium to glue to prevent this.
Carpet Moths.-You will not be troubled with carper moths if you serub your flooss with hot bine before tacking the carpet down, and once a week scrub your carpets with coarse salt.
Cabbagr witil Crbasp.-Boil, drain and cut up a moderate-sized cabbage. Put in a saucepan with a couple of tablespoonfuls of butter, a gill of cream, a tablespoonful of flour, ralt and pepper. Add the cabbage, boil slowly ten minutes, stirring well.
The "Joural de Pharmacie" gives the following recipe for 2 mucilage that will unite wood, or mend porcelain or glass: To eight and a half ounces of a strong solution of sulphate of alumina dissolved in two-thitd. of an ounce of water.
Mutton Broth.-One pound mutton or lamb cut small, one quart of cold water, one teaspoonful of rice or barley, four table. spoonfols of milk, salt, pepper, parsley ; boil the meat without the sait, closely covered, batiey or rice; simmer for half an hour, batiey or rice; simmer for hall an hour,
stirring often; add the seasoning and milk, surring often; add the seasoning
Oatmeal Pudding.-Mix two ounces of fine Scotch oatmeal in s quarter of 2 pint of milk; add to it a pint of boiling milk; sweelen to taste, and stir over the fire for ten minutes; then put in two onnces of sifted bread crumbs; stir until the mixture is stiff; then add one ounce of shred suet and one or two well-beaten eggs, and a little flavouring or grated natmerg; put the padding in a
buttered dish and bake slowly for an hour. buttered dish and bake slowly for an hour.
Graham Biscuit. -Stir with a spoon epough to toto into a dough 25 soit 25 can be kneaded; roll out when sufficiently kneaded to be well mixed, and cut into calkes three-quarters of an inch in thickness. Lay them in baking pans so they will not touch each other; and bake in a quick oven, letting them remain long enough to become brown and crisp, which, with a good heat, will require about twenty-five minutex, or taking them out when just doae through, as one prefers; if not sofficiently baked they will be heary at the bottom. Put them on a grate or colander to cool, that they may not steam and beonme heary. This bread is excellent for growing children and for brain workers. None of its nutritive qualities are diminished by fermentation, and eaten with good cow's mulk and some sub-acid fruit it forms perfect food.
For burns and scalds a good applicatiod, that can always be obtained, is cooking soda. Sprinkle the burnt surface at once wilh this powder, ard cover it with 2 wet cloth, or immerse the burnt part in alum water, strong brine or sosp suds. A grod saire for sub-equent application sisweet oil tine. The thing to be done is to protect the bums surface against the influence of the air. An excellent application to make at once is a tablespoonful of unsalted lard, the white of one egr, and a teaspoonful of cooking soda, well mixed. Burns or scalds upon the face are best treated by applying mucilage or gam arabic. It lorms a coms plete coveridg, and obviates the ase of raga. Repeat the application every ten to fifter. minutes, notil a tbick artificial skin has been formed. It is so transparent that the condition of the burnt surface can be seen from day to day. It altimately scales off and leares a new skin, perfectly smooth and fair.


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## GOOD PAY TO AGENTS.

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8 Jordan Bireat, Toronto.
Publisher.
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Mr. J. A. McLEAN, Manager Adtertising Depariment of thits paper, if authorised to male condracts at our repular rates.

##  <br> EDITED'BY W. F. CLARKE.

TORONTO, WEDNESDAY, FEBRUARY 1bTu, 1882.

## PREPARATION FOR SPRING.

There are many things in regard to which it is desirable to "take timo by the forelock," in view of the near approach of what is always, in this country, the busiest season of the year. One of them is taking care that farm tools and implements are in good working_order. Another is, provision of seed, always with an eye to getting the best that is obtainable. Farmers too ofton find themselves in the thick of spring work with an insufficient supply of seed on hand, and are- sometimes obliged to sow an inferior article, for want of leisure to look round ior a better, Therefore it is wise to provide in time against these emcrgencies. Ordering fruit-trees, plants, and shrubs is another thing that should be done early. Every spring something should be undertaken in the way of improving one's place by planting, and that it may be done to the best advantage, it should be attended to fofore the sesson of hurry comes on. Theearlier nurserymen got orders from their cyrstomers, the better they. are likely to fill therra. It is also of the greatest importance that the work of the year should be thoroughly thought out and planned beforehand, tas far as possible. It is well to make a map of the farm, study how each field car be cropped to the best advantage, and plan accordingly. Afterthougb may legd to some changes, bat a wise man will ysually adhere to what, onvmature deliberation, he has decided to be, on the whole, for the best. Just as a good packer will get more articles into a trunk than one who does the work at haphazard, so a good planner of farmwork will get more into and out of a year than one who lets things "tale their chance."

## OUR DAIRY ASNOCIATIONS::

The recent annual meetings of the Ontario Dairymen's Associátions-the Western, held at Woodstock, Feb. 1-3, and the Eastern at Belleville, Fegi. "-9-were highly successful, both of them. These institutions have been styled "Dairy Parliaments;" but they are, more properly, schools'of dairying, in which the principles of the business, from its A B C up to the most advanced principles, are taught, by means of addresses, discussions, diagrams, and answers to questions asked by members of the audience. They are well-attended schools. Upwards of 300 were present at Woodstock, and fully two-thirds of that number at Belleville, most of whom were actually engaged in dairying. The amount of knowledge given and received in the course of three
successive days of instruction-ligng days, too -must be very great, and cannat but leave its mark in improved theory and practice hereaftor. Indeed, the gratifying dovelopment of the dairy interest in the Prevince of Ontario may be largely attributed to the inluence of theso meating.

Addresses on set subjects wore given at Woodstock by Hon.X.A. Willardof LittleFalls, N. Y.; Prof. Arnold of Rochestor, N. Y.; Hon. Harris Lewis of Frankfort, N. Y. ; Prof. Roberts of Cornell University, N. Y. ; Prof. Wethorell of the Boston Cultivator ; and the Editor of the Rural Canadinn. Prof. Barnard, Agricultural Commissioner from the Province of Quebec, took a prominent part in the discussions, as did Messrs. Ballantyne, Caswell, Richardson, Losee and others. The set addresses given at Woodstock to the Western dairymen were repeated at Belleville for the benefit of the Eastern dairymen, with the addition of two very valuable addresses by Prof. Brown of the Agricultural College, Guelph, or Permanent Pasturage and Forage Plants. The addresses, discussions and proceedings of both Associations have been fully reported in the great Toronto dailies and several of the local papers. They will be given in full in the forthcoming Reports of the Associations, from the manuscripts of the speskers and the shorthand reports taken officially. In this way the information conveyed will be put on permanent record ; and as each member of the Associations is entitled to a copy of these Reports, refereace to them can at any time be made for the refreshment of the memory on forgotten points.
The dairy interest is evidently growing in the Province of Ontario. Better still, it is improving in quality of prodúct, and consequently its repatation is rispog in the British market, Canadian cheesg is no longer at a discognt, or liable to be branded as inforior bucause made in this country. There is, however, much further progress which it is both practicable and desirable to make.. A better class of dairy colv is needed. Too many unproftable animals are kept. The cost of keeping a cow which lands its owner in loss, is just as great as tbat of one which yields a handsome profit for her board and lodging. This important practical subject bccupied a large share of attention at the recent dairy meetings of this Province. It did so at similar meetings lately held in the United States. The breeding and rearing of high-class dairy cattle are felt to be matters of present and urgent necessiiy by all the intelligent dairymen on the continent of America. The importance of more attention to pasturage is felt to be another vital point. Grazing lands, well stocked with a variety of grasses that will give a good bite all the season through, are needed in every dairy district. Next to this, a supply of green forage plants, as a precaution against the failure of pasturage during summer droughts, demands attention. These topics were laigely dwelt on by Prof. Brown and other speakers, and it is to bo hoped that the e rnest words that were spoken in regard to them will bear fruit practically. Careful manipulation in, every part of the process of dairying was largely dwolt upon. New modes of manufacture were not proposed, but rather
scrupulous regard to principlas and practices. that are known, admitted, and have been tested over and over again. Too many fail by disrogarding what may be called the minutice of dairying. Close attontion to evory dotail of the business was urgently insisted on by several speakers, and the fatal consequences attendant on littlo neglects wero clearly pointed out. The enviable reputation of some Ontario dairymen whoso brands of cheese are cagerly sought for in the British market, was reforred to, and thoy were closely questioned as to their methods by others anxious to emulate their succoss. These gentlemen seemod quite willing to impart all they know. Apparently, they had no secrets. Their success resulted from such simple causes as cleanliness, watchfulness, honesty and uprightness, combined, of course, with a skill which some people attain in every line of business, while others do not. This difference, however, is mainly attributable to want of application and perseverance.
The social element was introduced into these meetings in the shape of public banquets. Woodstock set the example, and Belleville followed suit. They were very pleasarít reunions to those who, having met together year after year for the promotion of a cómmon object, have begun to feel the ties of friendship and brotherhood binding them together. Sympathy and fellowship are worthy of 'cultivation, and there is no good reason why they should not be permitted to have scope on such occasions as bring together those whose aims and interests are identical It is to be hoped, therefore, that this social feature will be continued in connection with future annual gatherings of On tario dairymen.

## BORROWING AND LENDING FARM 1MPLEMENTS.

The highest authority has enjoined, " Give to him thatasketh of thee, and from him that would borrow of thee, turn not thou away." But these commands are not to be taken in an unlimited sense. And if there is a duty of lending, there are also certain obligations that rest on borrowers. Ownership should be fully recognised. A correspondent of the Country Gentleman, writing on this subject, says he has certsin neighbours who are wont to ask, "Are you going to use your waggon to-day ?" and if a negative reply was given, would take it without further ceremony. He also refers to certain parties who regarded their right to his property as better than his own, positively refusing to return a machine or tool until they are done with it, although he was in equal need of the borrowed article. Such conduct is manifestly unjust. Care of articles kindly lent and scrupulous particularity in returning them without damage beyond inevitable wear and tear, are obvious duties of borrowers. But they are often shamefully neglected. It is a noteworthy fact that it was said to the Jews by their great lawgiver, Moses, "Thou shalt lend, but not borrow." This was prophetic of their state of prosperity and independence. Such a-state should and will be coveted by all truly noble minds. There is a neighbourly spirit which all should cultivate, and there is alog a nobility of soui above all mean depen-
donce, which ought to be fostored. Some borrow tools and implements who can well afford to own them, and ought to do eo. In like manner, some borrow newspapers and periodicals who cun, and therefore should, subscribe for thom. The Country Gentleman's correspondont referred to above, states that the Elmira. Farmera' Club has been discussing this sulject, that soveral nembers complained of having suffered inconvenience and loss by lending, and that the opinion was expressed that some parties could, and would, pay a fair price for the use of an implement or machine which they felt unable to buy. The result of the discussion was that a proposition was made to post up in large sign letters on the barn a notice like the following :-

$$
\begin{aligned}
& \text { For roller.................... } 50 \text { cents por day. } \\
& \text { " lumber waggon } \\
& \text { " grain drill } \\
& \text { "t cultivafor. }
\end{aligned}
$$

and similar rates for other things, the days to count from the time the article is taken till its return, and to be returned in as good order as when lent, natural wear excepted."
This appears fair and equitable. It is a favour often to get the loan of an implement or tool, sven if a moderate charge be paid for its use. An arrangement of this kind would be highly satisfactery to those-and there are such-who.feel a delicacy about borrowing an article which they need occasionally, but do not possess. No doubt some would object to paying for a thing borrowed, but it would be the mean class of people who are always wanting something for nothing. Owners could of course use their discretion, and not exact payment from worthy neighbours who arounable to pay. The principle itself seems so manifestly just, that the wonder is it is not more generally acted on. It is not only just, but there is this advantage about it, that were it adopted, borrowed articles would be much more likely to be returned promptly.

## BENEFITS OF A FARMERS CLUB.

Some of the many advantages growing out of attendance at these useful institutions are forcibly stated by President Ferris, of the Onondaga Farmers' Club, N. Y., in an address from which we take the following extracts:-

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## SKETOHES OF OANADIAN WILD BIRDS.

BY williak l. kells, listowel, ont.

the blue jay.
The blue jay is a large and beautiful bird, but rather noisy and marauding. It generally frequents all parts of our woods, but is more partial to the low, suft wood lands than to the rolling hard wood tracts. When the stormy winds and withering frosts of auturnu indicate the approach of winter, it generally retires into the densest woods, particularly the evergreen swamps, where it is chiefly found during the cold season of the year-for it is not migratory, but remains in Canada throughout the year, enjoying the luxury of our summer and autumn with delight, and sustaining the severity of our winter without harm. The blue jay has no song, but utters various notes, the most common of which, resembling the words "Pay-up, Pay-up," uttered in a loud, harsh and screaming tone, may be heard in our woods at all seasons of the year. The blue jay is twelve or fourteen inches in length; its plumage is a beautiful blue, mingled with white and ashen colour; its wings and tail are crossed with bars of black; its neck is encircled with a ring of black, and its head is ornamented with a crest of loose, silky plumes, which it can erect or depress at pleasure, but it is mostly erected when the bird is angry or excited. The blue jay builds a large nest of brambles and fine roots. The eggs are five or six in number, of a dull greenish hue, mottled with pale brown. The nest is placed in various situations: as in the root of a fallen tree; among the thick branches of balsam, cedar, or hemlock; and in the forks of high trees. It is an omnivorous bird, and readily devours anything eatable that comes in its way. During the winter it subsists on moss, buds, the seeds of evergreens, and occasionally on nuts and grain. The nuts it often finds in the rough bark of trees, where they have been deposited by nutcrackers and squirrels. When it has found a large nut, it carries it in its bealk to a branch, where it holds it down with its foot and breaks it open with its strong bill. It sometimes makes a marauding visit to the barns of the back woods settler, where it feeds upon grain, and when disturbed flies off with an ear of grain in its beak, or uttering loud screams. It has sometimes been caught in a trap set to catch squirrels. In the early spring these birds will sometimes collect in large flocks on the borders of the woods, and devour the grain left uncovered by the harrow. At other times parties of them will visit the gardens and orchards, but they meet with little welcome from the farmer or his family, as plunder is well known to be their object. They will also attack and destroy the eggs and young of all other binds that are too weal to defend their nests, and while thus plundering, they will lift up their heads and in mocking tones mimic the distress of the parent birds; and when the work of spoliation is complete, they fly off to the woods attering lond screams, as if exulting over the mischief they have done; but whon discovered by the king-bird, robin, or blackbird in the vicinity of their neste, they are soon caused to retreat with precipitation and discoucerted notes. The blue jay
is a koen-sighted, shy, and cunning bird, and it is not always easy for tho hunter to como within gunshot of it, as the smell of powder or the sight of a gun will send it, uttering defiant notes, into the tops of the highest trees or the depth of the densest woods. Yet it is an affectionate bird, and will defend its eggs and young with boldness and sagacity. Its progeny aro often destroyed by owls, hawks, and nocturnal animals. The blue jay is abundant in tho now settlements; but as it prefers the wild freedom of its native woods to scenes of cultivation, and loves not the presence of man, nor the sound of the woodman's axe, it is yearly driven further into the wilderness by the onward progress of civilization.
"The blue jay is of all birds the most bitter enemy of the owls of this country. No sooner has he discovered the retreat of one of them, than he will summon the whole fenthered fraternity to his assistance, who, surrounding the glimmering solitaire, and attacking him from all sides, raise such a noisée as may be heard half a mile off, the owl meanwhile returning every compliment with a broad, guggling stare. The clamcur becomes louder, until the owl is at length forced to betake himself to Hight, and is followed by his ịppudent persecutors until driven beyond their jurisdiction. The blue jay is not only bold and vociferous, but possesses considerable talent for mimicry, and seems to take great satisfaction in mocking and teasing other birds, particularly the sparrow-hawk, imitating his cry whenever he makes his appearance, and squealing out as if caught. This soon brings numbers of his tribe around him, who all join in the frolic; darting about the hawk, and feigning the cries of a bird sorely wounded. But this ludicrous farce often ends tragically. The hawk singles out one of the most insolent and provoking, swoops upon him in an unguarded moment, and offers him as a sacrifice to his hunger and resentment. In a moment all is changed ; the jay's buffionery vanishes, and loud and incessant screams proclaim the disaster."
Mr. Henry Gray has sold his fifty acre lot in Hibbert to Mr. W. Delaney, for the sum of 82,800.
Since the 1st of January Mr. Andrew Burrows, Carleton Place, has purchased 120 tons of pork from farmers in the counties of Lanark and Carleton.
The County Councils of Peterboro' and Oxford have passed resolutions recommending that the grant to the Agricultural and Arts Association of Ontario be continued.
As American has been defrauding farmers throughout the county of Oxford, by purchasing turnips for shipment, paying thereon about twenty per cent., and giving due bills for the balance. The due hills are now found to be worthless.
Mr. Solomon Crossen, of Enniskillen, has sold his farm to Mr. Joseph Bostick, of Plympton. This farm, better known as the Steadman farm, consists of 200 acres, 100 cleared, with good buildings. The price paid is $\$ 10$,000 , or $\$ 50$ per acre. Eighteen years ago this farm was a dense forest, and a frog pond, and a person could float a canoe over the greater part of it.

## GARDEN AND ORCHARD.

## THE SHARPLESS.

HY T. C. ROMNSON, OWES SOUND.
What is the Sharpless? A strawberry, of course, every fruit-grower will reply. But what are its characteristics and its relative value anong strawberries, both for home use and zuarket? This can be determined for the country at large only by reports from those who have tried it in different districts and on different soils. Here is how it does with me on fair loam at Owen Sound. First it must be candidly stated that while it stands the winter well, the blossoms seem more casily killed by a late spring frost than some of the commoner kinds. Its most notable feature is its size. It is got up entirely on a large scale-large plant, large leaf, large fruit. No man need think to grow it on the matted row or broadcast principle; the plants must each have about tro square feet or more of garden area to spread their roots through, or else only half-coloured, poor-flavoured berries, and very few of then, need be expected; for the foliage will have a certain amount of sap, whether enough is left to develop fruit buds and perfect the berries, or not. Plant in rows two feet apart, or farther, and one fuot apart in the rom, clip off the runners and hoe down the weeds, and you will see what Sharplass is. I have it growing this year on light, poor land, both with and without a good manure mulch applied after plenting; also on the rich loam on which it has fruited, and if its crop next yar on this light land only fulfils the promise of this year's gromth, and as its record on light land in other places gives me reason to hope, I expect good satisfaction. But while its size and rigour of growth are all that can be asked. I cannot sey as much for its shape. The fact is, most large berries run a great deal to humps and crannies, and the Sharpless is no exception to the rule. Iat there is a symonetrical sweep in the irregularities of this berry that redeems them from the ugliness and deformities of other large berries. There is nothing, as far as I have seen, to compare with the abrupt small lumps and furrows found in the Cheney and Mincr's Prolific Those larre Sharpless berrics, that lie so heavily on their stram mulch, so impressyou-even while you are noting their fist, coxcomb shape or other istegularities of contour-with thicir roundness of cutline and shining mavohness oi surface, that it scarcels needs the further attraction of its rich, bright crimsoa colour-the handsomest in the gar-den-to induce a trial by the jalate as well as the cye. Let us take this big fellow of over an ounce in weight, and noticing that the lest spot of pink on the under side is just margins into searleh, ait which stage it is in the right condition for shipping or eating; let daylight into the centre rith our organs of masticnion-tools that in this case will give cntire satisfaction. Olserve, ss you do so, that while the berry is two inches to tro and a half in diameter, and the outcr cdres of the exaggerated coxcomb are alroost mecting in a complete circle, still enclosing the large green huil in the centre, yet it is nearly fiat like 2 cheece, with a short dianucter of bercly
an inch. Now smack your lips over the choicest morsel you aro likely to find till you pick the next Sharpless, and as you will make two bites of this strawberry-whatever you may do with a cherry-see from the remaiuing half the firm, solid quality of the flesh, which, nevertheless, your orgaus of taste inform you is not at all wanting in juice. Then finishing, you will need no further invitation to go for the next, and give it the company of many of its fellows. But stor! While yet there is room, step over here to my Wilson rows and sample the best specimens, as grown on the hill system. See, here is one of the largest, about the size of the medium or smaller run of Sharpless. See, it is of the rich (murky?) dark crimson, with mahomany-coloured seeds, which shows the stage of ripeness praised in the Wilson by Prof. Clarke and other supporters of this old market fruit. "Yes, not so bad!" you say as your glance stray's to the patch you have left. But you will try another, and help yourself. Oh: This time you got a Wilson -"red but not ripe,"-just in condition for marketing, as it is so frm, and you turn awar with a face suggestive of pickles. But hold on: You are just stepping over a row of Crescent-that famous berry for a near market. See what a grand crop of handsome, tiight berrics. You must know what they taste like; and help yourself, because I can't tell from the colour which are the ripest ones. Yee, that sent you, didn't it? "Wilson or more so," did you say? Now, don't head right for the Sharpless again. See here, I have a little petted strip of Triomphe de Giand, that will serve as a gauge of flavour. So you are willing to stay here awhile, though you speak enviously of the superior size of the Sharpless. Do you like these Triomphes better? You do, a litile, if you can stand the muskiness. But lo: the supply runs out. The Triomphe is too dainty to grow a large plant, or bear heavily even with petting. Try these 3incr's Prolifics in passing. Grand cmp of large fruit, ch ? But rather dark and soft What! insipid, did you say? I believe you-aiter tasting Trion phes. But here is the famous Glendale: Just beginning to ripen, you observe, and a great brarer of large, late berrics. Try this one, just red enough to pick for market-firm as Viison, you see. Did you throw it orer the fence, and ask for a cooling drink of vinegar toswecten your mouth? No! But remember the Glendale, like Wilson, is not ripe till its colour is quite dark, and it is therefore commended to the lovers of Wilson, whose peculiar execllences it prolongs till very late in the scason, being thus truly valusble. And you don't care to try Windsor Chief and other ner sorts beyond the Charles Downings? Well, call again when I have more and better specimens growing. Meantime I must so to my pickers for a while, and will call for you at the Sharpless patchan absence that I khink, from your looks, is the greatest favour I can do you.
If tho reader should glean from this that I have a high opinion of the Sharpless, he will not miss the fact. 3fy only doubt is as to its relatire productiveness, which, settlod favourably, will induce me to set it out further by the acre, and for the settling of which I hase some five thousand plants in hills to fruit next scar.

From exporience and reports of others, I think its crop will be not less than about twothirds the bulk of Wilsons in hills: and if it is that, it ought to pay better. But that is a question for market growers. There are new berries coming that promise great things; notably Bidwell and Manchester, which clain to be equal or superior to Wilson and Crescent in productiveness, with all the excellences of Sharpless. Their promises may bo fulfilled, and I am testing then. But they are the birds in the bush. The Sharpless is in hand, and of all tested varieties I regard it as facile princeps-without a possible rival in its season for home use, and very promising for market: but as it is rather late, it needs a few plants of an earlier sort to begin the season.

## ORNAMENTING SCHOOL GRUUNDS.

At the twenty-seventh annual meeting, in Rochester, of the Western New York Horticultural Socicty, the question of ornamenting public school grounds was considered at length, their barren and desolate appearance being considered a reproach, resulting in examples of disorder and depravity to children, wheress cultivation of love for the beautiful and orderly enlarges and enriches the character. School yards are too small; an acre is none too large. Three dollars expended for plants and seeds will, in proper hands, completely transform neglected school grounds. As the actual planters take the greatest interest in what is planted, it may be wise to appoint committees from among the boss for planting and caring for trees, and among the girls for flowers, making the leading members feel responsibility in the premises. Any school teacher may receive seeds free for decorating school yards by addressing James Vick, Rochester, N.Y., or D. MI Ferry \& C., Detroit, Mich. A committee of five was appointed to suggest plans for further work in this direction.-N. Y. Tribune.

## RENEWAL OF AF OLD ORCHARD.

In the winter of 1862 I rented a farm near Loekport, N.Y., that had been leased for twenty-five ycars continuously, with an "old orchard" on it of from two to three acres. The real plight it was in would take pages to describe It looked as though fruit would be scarce "off" or "on" years. a number of trees were so near dead the owner said I never could sare them. I began to trim trees every day I could bear the cold in winter, and worked every hour of spare time trinming until July. I scraped the limie and trunks of the trees, with the help of a hired man and two small boys, every time a rain would come, so the old bark and filth could readily be removed. In the course of the season I ploughed the ground five times in that orchard before the fruit began to fall, and dragged it as thoroughly in proportion. I manured nearly all of it once, with from two to three extra doses at different times around the sickly trees till they were waked into life. The result was: That fall, the "bearing" ycar, I sold 20s barrels for 63 cents per barrel for the iruit Many came to sec and admire the beautiful crop. Even the purchaser pronourced all beantifal, bat
added: "I have bought fruit here for twentyfive years, but never such Roxbury Russets as these." Twenty-two covered a barrel head, by actual count. Now for the "off" year. Friends and parishioners would say: "Elder, you have a beautiful large crop of apples this year, but dont expect any next year, it is the 'off' year." The next year I picked and sold over 360 barrels of apples from the same orchard, and received $\$ 1.94$ for the fruit per barrel. Over one-third of the cash receipts for 1863 from that 100 -acre farm were from that "poor old orchard." For more than three years after, another tenant wuld not use it so mean and cruel, but it still showed the good effects of good treatment for two years. There are varieties that are inclined to overbear ono year and rest the next, the Baldwin and the Greening especially so. But keep the dirt whirling; feed your trees high, and give them plenty of "soft soap;" and you will be almost secure from "knotty," "wormy" apples, and your trees can no more help bearing every year, if the elements permit, than a high-fed colt can help playing. My word for it! Try it. If you fail, charge results to bad advice fromJ. F. Wade, in N. Y. Tribune.

## THE TVILSON STRAWBEREY.

The N. Y. Tribune says that disseminators of new varieties who think it necessary to decry the Wilson strawberry in order to promote demand for their plants, do not seain to have had much influence in the fruit-growing neighbourhood of South Haven, Mich. Mr. Dyckman, of the Pomological Society of that place, said at a recent mecting that, after testing other kinds during several years, he is not prepared to exchange the good old standby for market. One advantage he notes in its favour is that if the picking is delayed a day or so it is not so likely to be injured as the other sorts. Mr. Malbone "had rather have Wilson than all the rest." Mr. Newton would plant "nothing but Wilson." President Lannin said that if his proportion of Wilson were larger his profits would be correspondingly increased. Mr. Williams would " choose Wilson every time," not only for profit, but for the table. "It has the best flavour of all, if picked when fully ripe. Ono would soon sicken of the other varictics. It is the best for canning, retaining its flavour better than any other."

After discouraging trial of other plants for carpoting shady places, a writerin the British Garden obtained partial success with periwinkles under yew-trees: "In order to give the periwinkles (Vinca major and minor) a fair start, the soil around the yews, which is generally a perfect mass of fibrous roots, should be replaced with fresh loam, and the perizinkles planted in tufts about one foot apart. They should receive a good soaking with water after being planted, and be duly attended with the same until thoroughly cstablished. I have also seen ivy luxuriste bencath yewa."
Mr. Joan Thoxsos, living on the 12th concession of Blenheim, has sold his farm of 100 acres to Mr . Androw Perry for the sum of \$0,200.

## SHEEP AND SWINE.

PROTECIION OF SIIEEP AGAINS' WOLVES AND DOGS.

Kansas, early in its history, was infested with wolves, and since they became scarce, has been hardly less troubled with prowing and sheep-killing dogs. The last quarterly agriculiural report of the State Board contains the following item in relation to these pests of sheep husbandry:-
"J. R. Mead, a well-known citizen of Sedgwick county, and who has resided on the frontier twenty-five years, gives the following as the result of his experience in destroying wolves and prowling dogs: He purchases a drachm bottle of crystallized strychnia (at a cost of 35 cents), aud pulverizes the poison. He takes the carcass of a sheep with the skin off, and fastens it with a rope to the horn of his saddle, and drags it three or four miles about the range just at dusk, occasionally dropping a bait on the trail on which has been rubbed the thirtieth part of the contents of the bottle, and on leaving the carcass doses it liberally. Rides over the tail in the morning and looks for dead wolves. By a method similar to this, he has in carly days killed seventy wolves in one night" Mr. Mead adds: "If this method was generally adopted, there would not be a wolf or stray dog alive in the country by January next, unless they came from elsewhere, and the wolf pelts would pay the expense."

## RAISING PORK AT A PROFIT.

Among our farmers there is a very general impression that hog-raising does not pay. How general this idea is may be seen by reference to page 332 of the Report of the Ontario Agricultural Commission, which states that "only in Kent and Essex did anyone pretend to find it a profitable business beyond supplying the family demand."
An Iowa farmer is reported as saying that "he could raise three pounds of pork for one pound of beef." This we may well believe, when we take into account how extensively corn is grown, and its low price, and how little grazing is practised there. At page 295 of the Report of the Oatario Agricultural Commission, Mr. Geary, Mr. Renny, and Professor Brown agree that the only profit in cattle feeding is that received indirectly from the improved condition of the land. Hogs can be fed with much better results, as I can substantiate from ten years' experience, during which I have kept from fifteen to thirty hogs each year. For two years of these ten $I$ had common pigs, and the pork cost me about five conts per pound. One year I had a few Suffolks, and the pork from them cost nearly as much, for when fed off they did not spread out like the Berkshires feeding with them; and when dressed weighed less than the Berkshires by an average of seventy-fivo pounds cach, though kept and fed together right along, and about the same age. The result in this case somewhat verified the evidence of Mr. Snell at pago 333 of the above Report.

The Berkshires are now tho only kind of hogs I care to keep, and the following is my method of keeping them: I like to have the young pigs come in September, so as to have
them weaned before the cold veather sets in. They are then wintered in a pen made with poles or rails under the straw stack, open towards the south, fed twice a day on grain soaked in barrels, and soured with slop, etc., from the house. In tho spring I ring them and turn on to a clover field, one about to be fallowed if possible, and as the cattle are taken off a field the pigs are turned in. They are fed about one and a half pints of grain each day on the clover pasture, put in little heaps a distance apart on the ground, and attention is paid that they get water. As soon as the crop is off they are turned on to the stubble, and are kept along till the middle of Octob.r, when they are fed off on peas, soaked or chopped, as may be convenient.
Under this practice my pork this year cost me three and three-quarter cents per pound. In years when feed was cheap I have raised pork at a little over three cents. The following is a statement of my operations the past year:-


Eliminating the store hogs from this statement, it stands:


In the above no charge is made for the pasturage on clover or on the stubbles ; still, the result is better than I have ever accomplished with cattle, and have never equalled with any but Berkshire hogs.-Cor. Globe.

## DIPPING SHEEP.

The effect of a dip is to free the sheep from all external parasites, as ticks, scab, etc., and skin discases, the cause of some of which are not fully understood. A dip of $t w e l v e ~ p o u n d s$ of tobecco and six pounds of flour of sulphur, to fifty gallons of water, is one that lias been so generally used, that it can be recommended. Some add to this a little concentrated lye, a pound or so, and about the same quantity of arsenic If arsenic is used, proper caution should be exercised, and the poisonous nature of the mixture kept in mind. The sheep are dipped while the mixture is warm. Those who have had experience claim that the dip of tobacco and sulphur will do all that can be accomplished by the use of arsenic. It may not be gencrally understood that sulphur does not dissolve in the dip; hence, in order that each sheep may get its share, the mixture, while in use, sheuld be frequently stirred up from the bottom, and the sulphur thus thoroughly diffused-smerican Agricultisrist.

Tre Elme and Wallace Agricultural Society directors have decided to incorporate the Unicty. Its name in the future will be the 'Union Agricultural Socicty, Listowel.

## CURRENI' NEIVS ITEMS.

Tue Ontario Poultry Show for 1883 will be held in Toronto.

From 2,000 to 3,000 tons of potatoes are now imported weekly from Great Britain and Germany to New York.

Mir. Alex. Hay has sold his farm, lot 4, con. 2, Bosanquet, consisting of fifty acres, to Mr. Jonas Stone, for the sum of $\$ 2,125$.
Messns. W. \& P. Robinson have purchased from their stepfather, Mr. Jacob Hanes, the valuable farm at Mariadown, consisting of about 175 acres, for $\$ 1,200$.

George Kirkmy has sold his farm in Morris, containing ninety acres, to Isaac Rogerson, for the sum of $\$ 3,500$. Mr. Kirkby has purchased 125 acres from Mr. McDonald, near Walton, for $\$ 3,300$.

Mr. W. G. Hay, of Listowel, has sold a farm on the first concession of the township of Wallace, containing seventy-five acres, to John Swinburn, of the township of Maryboro', for the sum of $\$ 3,000$.
Tre price of clover seed has recently advanced, and the firms that bought heavily early in the season made a good strike. As high as $\$ 5.20$ is being paid at western points. Much of the seed is being shipped to England.
Mr. Robert Anderson, of the Lake Road, Bosanquet, sold last week to Mr. J. James, for the Winnipeg meat market, two threeyear old steers and a fat cow, which jointly weighed 4,005 pounds, the cow alone weighing 1,385 pounds.
W. B. Uxderhill, Esq., Mit. Vernon, had a splendid sale of farming stock, etc., a couple of weeks ago. Everything was favourable, and the sum of $\$ 1,400$ was aggregated, of which $\$ 1,000$ was paid in cash. Mr. Underhill gres to Manitoba.

Tue Wallaceburg Record says: The Sombra Literary Society have entered an action against Mr. Morrison to recover money placed in his hands about nine months ago to purchase books. He never invested the same; consequently the suit.
Mil. Johis Stirton, an cnterprising farmer of the township of Brooke, has just purchased from J. Hughes, of Metcalfe, a bull of a very fine strain of blood got by the Seventeenth Duke of Airdrie, and bred by Mr. Peter Toles, Mit. Brydges, for which he paid $\$ 105$.

Mr. John Watson, of Ayt, has signified his intention, through Mr. Cockburn, M.P., to contribute ten of improved "Black Swan" ploughs for the benefit of farmers in Muskoka who lost their farming implements during the ravages of the bush fires of last summer.

Mr. A. A. METERS, who is one of the most enthusinstic patrons of the Sombra Cheese Manufacturing Company, has purchased the north half of lot cight, in the tenth concession of Sombra, for the sum of $\$ 550$, and intends to fence the same and use it as a pasturage for his cattle.
MIr Joserh Morars, of Colborne, has putchased a superb team of horses from Mr. John Buchannan, of the same tornship, for $\$ 400$. This is the secoud team Mr. Buchannan has sold for the above named amount. The first team was taken out to Dakota by Mr. Bates, and sold for $\$ 500$.

A paper published in western Ontario says: A short time since, a party sold to one of our merchants, a quantity of lard, nicely put up, but which turned out to be tallow, with about an inch of lard on top. Fortunately for the storekecper, he knew his man, and compelled him to "fork over." Such rascality is unpardonable, and the perpetrator ought to be punished. No more talk of wooden nutmegs or basswood hams after that.

Tne Galt Reformer says:-Mr. C. K. Pratt last week purchased at Mitchell four very fine heavy draughts from the fullowing gentlemen: One stallion from Mr. James Colquhoun, 3500 ; one stallion from George Graham, 8700 ; one span of mares from James Johnson, St00. All the above animals are from the stock of "Lord Haddow," one of the finest Clydedales ever imported into this country, nnd whose progeny in the counties of Huron and Perth are justly celebrated. Mr. Pratt left Galt on Tuesday morning, intending to take his fine Clydesdales with him to his stock farm at Lowell, Indiana
A Washington despatch says: Representative Thomas yesterday addressed the Committee on Ways and Means, urging the passage of his Bill to regulate the manufacture and sale of oleomargarine. He urged legislation on the subject for the protection of the legitimate butter trade and for the protection of the public health. He stated that the rapid increase in number of oleomargarine manufactories threatens the extinction of legitimate dairy interests. In New York alone are manufactories and material enough to produce $16,000,000$ pounds of oleomergarine annually, while the entire product of butter of the State is but $111,000,000$ lbs. Oleomargarine can be produced for 9c. a pound, and consequently when sold in imitation of butter will drive genuine butter out of the market. At present it is not and cannot be sold as oleomargarine or as a substitute for cheap butter, but is sold in imitation of and under pretence of being butter.

## ONTARIO POOLTRY ASSOCIATION.

The annual mecting of the Ontario Poultry Association was held in the Kerby House, Brantiond, on the lith inst.
The meeting was well attended, and the members congratulated themselves on the success of the exhibition. The treasurer's report showed the Association to be in a healtiny financial condition; after the reading of which, on motion, the city of Toronto was chosen as next place of meeting.

## zilictiox or ormictas.

The alation of oficers for the coscing jear reenltod as follows:-
Prasident, TV. E. Dool ; 1st Tico-yrosident, A. Bogao ; 2nd Vico-prosident, E. Kestor. Directors : 3iosinn BattorGeld, Back, Sprasse, Scalter, Bastmood, 3nddy, Fonnick, Thorne. and Kaia. Aevitora: II. J. Hill, Toronto. and J. O. Weldon, 工ond ${ }^{2}$.

Marras. Dool and Dinmorth wert appointod delegater to altend the Industrind Eraibition.
Tho retiving Pracident, Mrr. E. Frater. and Nr. W. Sandercen, tho effeijent Socrotar, Tero rotid nosaimozs and bouty rolon of itsunke for thair unkifiog zoell snd intercost in the wollaro of the Asmociation.
3ir. J. W. Bact arked for the appointment of a cornenit too so draft a constitution and br lave for the Aerocintion.
Somo other minor basineck was athonded to, and tho Ansociation zdjozrped. Thilo tho new Board at beair Girn: siluing eloctod thair Socrotary 2nd ircearurer. Mr. Wm.


Genaral Garibaldi has been given up by his phyiocians.
Tur English life-boat crews last year saved 33 vessels and 996 lives.
Guitanu, the essassin of President Garfield, is sentenced to be hung June 30 .
Tur number of students attending Edinburgh University this session is 3,237 .
Tue Sultan of Turkey has sent to the United Stales for farming implements.
Although the small-pox still lingers in some portions of Philadelphia, the January report shews a decrease in the number of deaths of nearly seventy-three per cent.
The Episcopal church of Ellicottville, N.Y., has a bell that was cast in Moscow in 1708 for a chime in one of the cathedrals in that city, which was burned by Napoleon in 1814.

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## HONE CERCLE.

## WINTER KOSES.

O. perfumed winter roses with tints of creamy white,

How swiftly ye carry mo back ward to a year ago to-night, When other roses were breathing their blessed fragrance out And a child, as she held the blossoms, her misery forgot!
The Christmas air was icy, and the frost-king held his sway, And waved his wand of crystal abroad o'er land and sea;
The trees were locked in splendour, and the city's spires were seen
In hues of gold and jasper, with precious stones between.
In her stall sat a market woman, of visage grim and stern; By her side a little maiden, with her fifth year yet to turn; And you would have said, had you seen her that bitter
That nevery a day fower more fragile c'er bloomed in the early May.

Through long hours she had listeued to the tramp of busy fect,
And the harsh discordant clamour of the voices on the street, the world
ing buir
And she wondered why God made her, and where His dwelling was.

The night was slowly falling whea one of noble mien, With his little dark-cyed daughter, approached the stall unseen.
"And where did yon find this maiden with her wealth of golden hair?
He said to the woman, who sat so cold and silent there :
"This is the child of my brother, and good for naught was he;
He is deead, they say, and buried, and his offspring falls to "Ahili sec," replied the stranger, in 2 grave and earnest tone,
While he noticed the pet of lhis household embracing the homeless one.
"What shall I give you for Christmas?" now pleaded a coaxing voice,
"If you will but tell me, dear, I will make four heart re-
I have dolls with costly dresses, and toys withoat number
toon,-
say you want, jittle darling, and it sball be brought
to you." to
From under the sunay lashes and over the pallid choek,
A pearly tear-drop trickled, as ske vainly tied so speak. I want some-one-to-lore moe," was attered a! las with a sol;
And the heart of the child in ermine gare back an answering throb,
As she said, with a josous cadence that rang through the market wide:
"Why. Ill be the one to love you, more than all the world beside;
See! Here are some winter roses of lovely cream-white With a kiss accept them, sister, in proof of my love for you."

A roice was heard to whisper, that night in the firelight's ،1 glow:
hare promised so lore ber, mamma, will you belp we a may talk of the rough world's contact and of those by sin defled,
Bat it never can crash the angel that dwells in the heart of a child!
O. wise wete they and loring who planned a rare surprise,

When their child shoald wake oa the morrow, to greet ber wondering eyes:
On 2 conch with silken cartiains as blue as the 2 mure siky,
Lay the likle orpban siecping in ber frerh joung purity.
The Christmas morn wes iç, and the frost-king held his sway, And waved his wand of crysial abroad ooer land and see; Bat 2 suang face was brighter for the raptare picured there
And a tome of wealth was richer for a clood of goldea hair

## HOUSEHORK.

Girls whose pareats can afford to keep servants get the impresion sometimes that it is quite out of the question to engape in zoy kind of houschald woik, some eren leaving the Care of their own room to the chatge of kired belp. Snch giris seem to us the embodiments of lavinent There is 100 reason why eresy gir shoald not ondersund the reanine of the houschold macnisery, so that if at any trace mother was
sick apd voable io oretsee the astal arrangewents, the sick and unabic io oretsee the zspal arrangeroens, the dagghter might be able to take her pince, managiog setisact
torits. It is 2 falve notion that to become a hoosekeeper 1orils. It is a iatec notion that 10 become a hoosekeepet
is to become also a domestic drodge, and if any of the girls is to become also a domertic dradge, and it thy of the giras them abandoait instantly, apd by experience prove it a libel. When chere are two sisters in a faxily a good plan is to divide the work, each one being responsble for thal portion that is extrested to her care. Let each understand cleaty what is cxpected of ber, not doing it haphanord, bet promplly and regalaris each weck; or the work could be allemated, if this antengement wocla be more agrecible girls ix, that it gives a chance to leara the many dectils 000 nected with nomen's work that canpol be learned in any other way than by experience, and withont which keowlodge
do woman can rovem a house well. We don't want to conrey the impression that the gitl should shoulder the responsibility of her home, but simply to shew her how much better it is to be abje to know how to do it, should it erer become necessary. Housework is not degrading; on the contrary, we consider it elerating, for,
"She who sweeps 2 room as to God's law;

## Makes that and the action fine."

And a girl can be just as much a lady in sweeping-cap, with broom in hand, as in breakiast-cap, reclining languidly with book in hand. The truest, noblest, and best woman we know, has been traincd from her girlhood to look, practically, to the ways of the bousebold, and yet she is a lady in every respect-an ornament to the most cultivated society. When you have homes of your own, girls, and are obliged to get along with hitue or no help, you will be thankful for if $i t$ falls to your lot to have serpants in abund ince you ; ill still be glad that you can suls and direct them; and should they leave you without any warning, as they are sometimes disposed to do, you will be "mistress of the siluation", able aisposed to do, you wiul be mistress of the siluation, able
to take hold successfully until such time as relief may come. -Christich at Work.

## THE FARMER'S WIRE.

Up with the birds in the early morning,
The dew-drop Elows like a precious gem;
Beautiful tints in the skies are dawning,
But she's never a moment to look at them;
The men are zanting their breakfast early; She must not linger, she must not wait;
For words that are sharp and looks that are surly Are what men gire then meals are late.

Oh, glorious colours the clouds are turning, If she would but look over hills and trees; But here are the dishes, and here's the churning, Those things must always yield to these. The world is filled with the wine of beauty, If she conld but pause and drink it in; But pleasore, she says, must wait for dety,
Neglected work is committed sin.
The day grows hot, and ber hateds grow weary; Oh, for 2 a hour to cool her head
Oat with the birds and winds so cheery ! Bat she must get her dinner and bake her bread. The bosy man in the has-field working, Woald think her lazy, and call it shirking onld think ber samy and call it shirking,
And she never could make them undertand.

They do not know that the heart within her Hungers for brauty and things sublime; They only know that they want their dinner Plenty of it, and just "on time."
And after the sweepiog and charning and baking, And dinner dishes are all put by,
She sits and sews, though her head is aching, Till time for supper and "chores" draws nigh.
Her buys at school mus: look like nthers.
She says, as she parches the frocks and hoss;
For the worid is quick to censure mothers
For the least neglect of the children's clothes. Her husband comes from the feld of labour;
He gires no praise to his weary wife:

- She's done no more than has her neighbour; 'Tis the lot of all in comatry life.'

But after the strife and weary tussle With life is done, and she lies at rest,
The ration's brain and heart and mascle-
Her sons and daughter-shall call her blest.
Ard I think the sweetest joy of hearen,
The rarest biss of eternallife.
And the fxirest crown of all will be given
Unto the way-worn fanmer's wife.

## -THE NARKET-PLACE IN GERUSALEM.

In the market-place througed the peassots, chiefy women. Each sat bexide her backet, calling to the pasters to bay of her. Sbere were poor fowls tied helpiessly by their wro feet, hage canlifowers from the well-watered gardens logether, and here and tbere, bet not often, 2 beach of spring fowers. The days were past, with little promise of retaraing, when St. Jerome wrote of the valleys aboat Jeresalem as "pleasant and moody spots fall or dclighifne gardens walered from the fomtain of Silomm." The gardens of roses of his day are now bat heaps of doss, only the memary of them swells sweetis ; what has been may jet be agaia.
Nnw and again 2 man with lemosade or simple drinking water cried in 2 shrill voice, "Come buy of me," whïe he clinked the brans cups at his side to attract castomers.
The poor women and litile children sat 00 the bare stones dressed in theis iattered and be antifil clabes, their naked arms braceleced rp to the cibow with silver and giess orraments, chains of silver aboat their necks, colns of silrer and eren gold apon their heads. How was it that with all these pasespions they were oaly scliers of egres and regetables? In trath, ibese poceants carry all they posicess upoo theis poor lired bodies; they have no savinge bsak where to keep their earniogs, ineg must carry them alwajs with thema; so when they have booght three peirs of thick bracelets, risys for each fipger, aod chains for the meck, they set to Toik to sew the coins themselves upon their head-dresses, which they pever leave off, not eren while sketping.
In ore street, oil, olives, and selt kish were set out in glazed disbes apon the board whick served as a couater;
while rope, nets, candles, and corks were hung from the ronf inside ; barrels of sardines stood on either side of the entrance, with fish brought fom the sweet, cool waters of the Sea of Galilec, from whose pebbly shores a few poor fishermen still draw their livelihood, while their scal'ered mud huts occupy the site of the cities of the past.
At another stall tobacco alone was sold. In a third only soap, made into all manner of shapes-soap crosses, soap hearts, soap fishes. A fouth contained fuit and vegetables piled temptingly together. A fifth bread only. In the last sat a bather, waiting for heads to be shaved, his booth hung round with inlaid hand-mirrors and embroidered towels.
Through rairow arches to right and to left were seen the bazaars for cotton and silk clothing, as they atretched in far perspective, away to the meat bazasr, a most unpleasant quater, which happily could well be avoided.

## STUPIDITY IN COURT.

Mr. Howells, in the Atlanite Montrity, gives his observations in a police court. To show the difficulty of getting an answer out of a stupid wilness, he says, if it were necessary, for example, to establish the fact that a handkerchief was white, it was not to be done without some such colloquy as this:
"Was it a white handkerchief?"
"Sor?"
"Sor ?" "Was the handkerchief white?"
"Was it white, sor?"
"Yes, was it white?"
"Was what white, sor?"
"The handkerchief,-was the handkerchief white?"
"What handkerchief, sor?"
"The handkerchief you just mentioned,-the handkerchief that the defendant dropped."
"I dion't see it, sor."
"Didn't see the handkerchief?",
"Didn't see him drop it, sor,"
"Didn's see him drop it, sor."
"Well, did jou sec the handkerchicf?"
"The handkerchief, sor? Oh, yes, sor! I saw it,-I saw the handkerchief!"
"It was, sor."
A boy who complained of aoother for assaulting him sxid hat he knocked him down.
"How did he knock you down?" asked the judge. "Did he knock you down with his fist or his open hand?"
"Yes, sor."
"Which did he do it with ?"
"Put his arms round me and knocked me down."
"Put his arms round me and knocked me down.
"Then he didn't krock you dowe. He thrc:o you down.
"Yes, sor. Ile didn't t'row me down. Put his arms around me and knocked me down."

## HUMAN ENDURANCE IN THE WATER.

Men and animals are able to sustain themselves for long distances in the water, and would do so much oftener मere they not incapacitated, in segard to the furmer at least, by sheer terror, as well as complete ignorance of their real powers. Webb's wonderful endurance will never be forgotied. Bat there are other instances only less remarkable. Some years since, the second mate of a ship fell orerboard while in the act of fisting a sail. It was blowing fresh; the time we 23 night, and the place some miles out in the stormy German Ocean. The hardy fellow nevertheless manaecd to gain the English coast. Brock, with 2 dozen oiher pilots, was plying for fares by Yarmonth; 2ad, as the main. sheet was belayed, $д$ sudden puff of wibd upset the baat, when presently all perished except Brock himself, who, from four in the afternoon of an October erening to one the next moming, swam thirteen miles before he was uble to hail 2 vessel at anchor in the offing. Animals themestres are cepalle of smimmiop immense distances, although unable to rest by the way A dop recenols seam thirty miles able to res by order to rejoin his master a America in order 10 rejoin his master. $A$ mule and 2 dog wasbed orerboard duning al gale in the Bay of Biseny ashore with a leiter in his month al the Cape of Good Hope. ashore with sellas ais wiope. The crew of the ship to when the dog belongedy perined. Which they need tresd watr as the don of the sea it ars foend acedral in ing heavily is the trough of the sea, it was fonmd aecdfal, in order to lighten the ressel, to throw soane troop-horses oresbrard, which had been taken in at Coruana. The poor things, my informant, a stafi-sargeon, told me, when they found themselves abandoned, facrd roand and swam for miles atter the vessel. A man on the cast coast of Liacolnshire sared quite a number of lives by swimmiag out on horseback to ressels in distress. He commonly rode an old pray mare, but, when the mare was not to hand, he look the first harse that oficted.-Popzelar Scirnte Morifily.

AxOUT 80,000 acres of jand between Jaffand Jerasalem have been secured on which to form 2 colony for the perseceted Jews of the Contiaent of Exrope.
Thy Irish Coart of Qaeen's Bench last week granted conditional orders quashing the verdicts of coroners jaries, in three cases in wisich police officials had been found gailly of murdering persons who lost their lives while rioting.
Tus "Pablishers' Weckly" states that durieg 2SSx 2,061 new boaks were pablished ia ite United States, being 915 more than in iS8a. Of shese 507 were fiction, 335 jarcaile books, 341 of theologs and religion, and 212 biography and aremoirs.
A Russiax dispatch says: "The scheme of the Gover-nor-General of Aloacow, for sessering the sufcly of the Imperial cortege to Moscow on the oceasian of the corocktion ceremonies, proposer that the Eraperor shall cone to Moscow by carriape soad instead of the railway, a2d the crowds in the sireets shall be separated from the procession by treaches, berricis and lines of troops."

## YOUNG CANADA.

## 7HE SQUIRREL'S LESSON.

Tro littlo sqnirrels out in the sun,
One gathered nuts, and the other had nono.
"T'imo enough yet." lis constaut refrain;
"Summer is still only just on tho wane."
Listen, my child, while I tell you his fato: He roused him at last, but he roused him too lato. Down fell tho snow from a pitiless cloud, And gavo littlo squirrel a spotless whito sirroud.
Two litile $L$ ys in a zehool-room were placed,
One always perfect, the other disgraced.
" Time onongh for my learning." he said. "I will chubl by and by from tho foot to the head."
Insten, my darling, their lockz aro turnod gray: One as Rovernor sittoth to.day,
The other, r pauper, looks ont at the door
Of the nlaskhouse, and allos his days as of yore.
Two kirds of peoplo we meet overy day:
Ono is at work, tho other nt play,
Iiving uncared for, dying unknown,
The busiest hive hath erer a drone.
Toll me, my child, if tho squirrels hare taught The lesson I longed to implant in your thought. Answer mo this, and my story is done,
Which of tho tro would you be, little ono?

## HOW MARBLES ARE MADE.

Marbles are known from the Latin word marmor, by which similar playthings were known to the boys of Rome two thousand years ago. Some marbles are made of potters' clay, and baked in an oven just like earthenware is baked, but most of them are made of a hard kind of stone found in Saxony, (iermany. Marbles are manufactured in great number, and sent to all parts of the worll, and even to China, for the use of the Chinese children. The stone is broken up with a hammer into little square pieces, which are then ground round in a mill. The mill has a fixed slab of stone, with its surface full of grooves or furrows. Above this a flat block of oak wood, of the same size as the stone, is made to turn rapidly around, and while turning, little streams of water run in the grooves and keep the mill from getting too hot. About one humbred of the square pieces of stone are put into the grooves at once, and in a few minutes are made round and pelished by the wooden block.
China and white marble also are used to make the round rollers which have delighted the hearts of boys of all nations for hundreds of years. Marbles thus made are known to the hoys as "chiuas" or "alleys." Real chinas are made of porcelain clay, and baked like chinawarz or other pottery. Some of them have a pearly glaze, and some of them are painted in various colours that will not rub off, because they are baked in, just as the pictures on plates and other tableware.
Glass marbles are known as "agates." They ar. both made of clear and coloured glass. The former are made by taking up a little melted glass upon the end of an iron rod, and making it round by dropping it into an iron mould, which shapes it, or by whirling it around the head until the glass is made into a little ball. Sometimes the figure of a dog or a squirrel or kitten, or some other object, is placed on the end of the rod, and when it is dipped in the melted glass the glass flows all around it, and when the marble is done the animal can be seen shut up in it. Coloured glass marbles are made by holding a bunch of glass rods in the fire until they melt, then the workman twists them round into a ball or presses them in a
mould, so that when done the marble is marked with bands or ribbons of colour. Real agates, which are tho nicest of all marbles, are made in Germany, out of the stone called agate. The workmen chip the pieces of agate nearly round with hammers, and then grind them round and smooth on grindstones.

## TELLING FORTUNES.

I'll toll you two fortunes, my fino littlo lad, For jou to accept or rofuso;
The une of them good, the other ono bad ; Now hear them, and say mhich you chooso.

I seo by my gifts within roach of my hand, A fortune right fair to bohold:
A. house and a hundred good acres of land, With harrest ficlde jellow as gold.

I see a groat orchard with boughs lunging down With apples, russet and red;
soe droves of cattle, somo whito and somo browa, liut all of them sleek and woll fed.

I see droves of smallows about the bara doors, Sco the fanning mill whirling so fast; I seo them thresuing theat on the floor-
And now the bright picture has passod.

And I see rising dismally up in the placo Of the beautiful house and the land, man with a fre red nose on his face

Oh! if you behold him, my lad, you would wish That he rere less mretchod to seb;
For his boot toes they gape like the mouth of a fish, And his trousers are out at the knen.

In walking he staggers now this way, now that, And his eyes they stand out like bug's: And ho rrass an old cost and a battered-in hat.
And I thank that the fault is the jug's,
For the toxt sajs the drankard shall come to be poor,
And that drowsiness clothes men in rags;
sud ho doesn't loo's much liko a man, I am sure.
Who has honest hard cash in his bags.
Now, which rill son have? To be thrilts and snug, And be rigits side up with your dish;
Or go rith yonr egos lite the oyes of a bug
And your shoes like the mouth of a fish?

## CAPTURING MONKEYS.

Monkeys are frequently captured in nooses and in traps built in the shape of houses. The only entrance is a trap-door in the roof, which communicates with a trigger set upon the ground. Food is spread about inside, the monkeys enter, and skirmishing around, disturbs the trigger and the trap shuts them in. The third method for catching them is a most ludicrous one. An old, hard cocoanut is taken, and a very small hole made in the shell. Furnished with this and a pocketful of boiled rice, the sportsman sallies into the forest and stops beneath a tree tenanted by monkeys. Within full sight of these inquisitive spectators he first eats a little rice and then puts a quantity into the cocoanut with ali the ostentation possible. The nut is then laiu upon the ground, and the hunter retires to a convenient ambush. The reader may be sure that no sooner is the man out of sight than the monkeys race helter-skelter for the cocoanut. The first arrival peeps into it, and, sceing the plentiful store of rice inside, squeczes his hand in through the tiny hole and clutches a handful. Now, so paramount is greed over ceery other feeling connected with monkey nature, that nothing will induce the creature to relinquish his hold. With his hand thus clasped he cannot possiibly extract it; but the thought that if he lets go one of his brethren will obtain the feast is overporsering. The sportsman soon appears on the scene; the unencumbered monkeys fly in all directions, but the unfortunate brute who still will not let the rice go is thereby handicapped beyond hope with a
cocoanut as largo as himself-a state of affairs quite fatal to rapid locomotion, either terrestrial or arboreal. The sequel is that he falls an easy capture to the hunter, a victim to his own greed.

## BOB RYAN AND DANDF.

"Never make an enemy, even of a dog," said I to Bobby Ryan, as I caught his raised hand and tried to prevent him from throwing a stick at our neighbour Howard's great Nowfoundland. But my words and effort came too late. Over the fence flew the stick, and whack on Dandy's nose it fell. Now Daudy, a great powerful fellow, was vury good-natured, but this proved too much for him. He sprang up with an angry growl, bounded over the fence as if he had been light as a bird, eaught Bobby Ryan by the arm, and held it tightly enough to let his teeth be felt.
"Dandy! Dandy!" I cried, in momentary alarm, "Let go! Don't bite him!" The dog lifted his dark brown, angry eyes to mine with intelligence, and I understood what he said: "I only want to frighten the young rascal."

And Bobby was frightened. Dandy held hin for a little while, growling savagely, though there was a great deal of makebelieve in the growl, and then, tossing the arm away, leaped back over the fence and laid down by his kennel.
"You're a very foolish boy, Bolby Ryan," said I, "to pick a quarrel with such a splendid old fellow as that. Suppose you were to fall into the lake some day, and Dandy should happen to be near, and suppose he should happen to remember your bad treatinent and refuse to go in after you.?"
"Wouldn't care," replicd Bobby; "I can swim."
Now it happened, only a week afterward, that Bobby was on the lake in company with an older boy, and that in some way their boat was upset in deep water, not far from the shore, aud it also happened that Mr. Howard and his dog Dandy were near, and saw the two boys struggling in the water.
Quick as thought Dandy sprang into the lake and swam rapidly toward Bobby; but, strange to say, after getting close to the lad, he turned and went toward the larger boy, who was struggling in the water and keeping his head above the water with difficulty. Seizing him, Dandy brought him safely to the shore He then turned and looked towards Bobby, his young tormentor; he had a good many grudges against him; and for some moments seened to be lesitating whether to save him or let hind drown.
"Quick! Dandy!" cricd his master, pointing to poor Bobby, who was trying his best to keep afloat. He was not the brave swimmer he thought himself.
At this the noble deg again bounded into the water and brought Bobby to land. He did not seem to have much heart in the work, however, for he dropped the boy as soon as he reached the shore, and walked away with a stately indifferent air.
But Bobby, grateful for his rescuc, and repenting his former unkindness, made up with Dandy on that day, and they were ever afterward fast friends. He came very near losing his life through unkindness to a dog, and the lesson it gave him will not soon be for-gotten.-Chilldren's Hour.


TORONTO WHOLESALE MARKETS．
Orfick Romal Oamadun， Toronto，Feb．16th， 1882. Grinn．－Trado gonerally has been ox－ coedingly quiet；whoat is doprossed on 20. count of tho great drop in outsido market， and recovery is auxiously lookod for by some holdors，Fall Wheat－8tocks in store， 230,127 bushols，as comparod with 217,822 bushols Last wook，and 105,865 bushole at a hiko timo in 1881 ．Tho only sales roportod gestanday moro 10,000 bash－ els of No．：at 81,25 ，delivery any time up to May，and 10,000 bushels of the same grade at 81.28 dray delivery．There is a unyor of 10,000 more of the latter at $\$ 1.27$ ． Holders aro askivg abont $\$ 1.27$ for No． 2 and $\$ 1.30$ for No． 1 ，but the domand is small．Wheat－Stocks in store 84，443 bughols，against 75，794 bushols last week， and 74， 354 bushols at a like timo last year． Daring the latter part of last week，beveral cars of Nos． 1 and 2 sold at 81.31 on track， but prices closed mach easior．Yesterday， values wore nominal at $\$ 1.28$ to $\$ 1.20$ for No． 1 ，and $\$ 1.26$ to 81.27 ior No．2．Oats －Stocks in store， 4,513 bughels as oom． pared with 4，554 bushels last woek．Offer－ ings have been limited and prices steady； one or two cars of Weatern sold daily ut 42c．on track，and Eastern at 400．on track on Mlonday．Street prices 42 a ．to 440 ．Bar－ ley－Stocks in store 293,947 buahels，against S03，546 bushels last week，and 427，799 bushels at a like time last year．Thero havo been numerous sales of round lots for shipment west on p．t．，the chref grade being No．1．Car lots quiet，with sales also on p．t．but values are protty much the same as those at the close of hast weok，vix．，88c． to 890．for No．1，840．for No．2．and 780．to 79 c ．for No． 3 extra．Street pricos ranged fiom 780．to 83a Pcar．－Stoaks in store 16， 860 bushels，against 16,095 bushels last week，and 71，777 at a like time in 1881. Narket remains dull in absenceof offerings： prices close nominal at 79 c ，for Ko．1，and 770．for No．2．Street prices 780 ，to 800 ． Rye－Stocks in store 17,007 brahals－same as last noek．Offerings are fair and pricos steady．A few zales haro been made at 89 ．delivered．
Clover－There has been a good demand， and offerings are liberal ；prices havo a wide rango on mocoxnt of difieremos in quality． Choico lots aro ranted，and romsin Grm at casier at $\$ 4.80$ to $\$ 4.85$ par bushel Alsite casier at $\$ 4.80$ to $\$ 4.85$ par busiuel Alsike nominal，at quotrtiong in abrsnce of offer－ ngs． g．
Promsions．－Tho demand for butter has been fairly active and prices firm．Large quantities have been bought up for ehip－ ment to the 8tates and to the Iromer Pro－ vinces．They were medium and good quslities，rery litnle choice ollering．The lsther is morth 200 ．to $22 a$ in tab lots，and good selections in lots are in domand st 16 c ． Cherse－There has been a moderate in－ quirs，and prices continue stesdy at 12 fo．to $13 \frac{1}{2} \mathrm{c}$－in Liverpool there has been a fall of 18．Eggr are scarco and firm at 22c．to
23 c ．for frosh，and 20 o for pickled．Port 23 c ．for frosh，and 20 o for pickled．Port quiet，with atook very small；it is hald at $\$ 20.50$ to $\$ 21$ ．Bacor tis in fair demand and stondy at 10 enc．to 110 ．for long clear and
10a．to 10 ic．for jobbing lots of Cumberland 10a．10 10 da for jobbing lots of Camberland cut Hamt unchsaged，at 120．to 130．Lard continues in fair request and standy st 13ic．for tionces，and l4c．to 14dcifor tubs and pails．Hogs searce and stemdy at about $\$ 8.50$ to $\$ 8.65$ ，bat bayers not 80 anciozs since the drop in the west．
HLoor asd Mrali－Stogks in store，6，933 bbls，against 7，423 tbls．lant reak and 9，829 bbis．at a like time lest year．Flour seeras to be demoralized，and bayerz huld off in enticipation of aven lower prices．It is no． minally lower than last week，in consequenco of the decline of thest．No cales hate been rnporied，sud fortmatiny for holders stociss aro not heary．8aperior extra is nominal at $\$ 5.50$ so $\$ 6.50$ and axtra at $\$ 540$ to $\$ 5.50$ ．Bran continues very scaros and pricas aro higher at $\$ 15.50$ to $\$ 16.00$ ．Oas－ nocl unchanged，at $\$ 4.40$ so $\$ 1.65$ ，with fow cer lots moring．
Catinc．－Becoipts momowhat langer this roek，amonnting to about 650 head．The mijority ware inforior to good quality，and prices were intino fis pricrs wero by way of Portland．$\Delta$ ifew hoad of choice stocrs sold at 5 c ．par lb．，averago 下eight 1200 to 1300 lbs．First－class bitchers cathe sold at 4c．to $49 a$ ，sud scoond－class at 3c．to 3J．Sherp in good supply and stcady，pricos ruling at sc．to 5 c per lb．；onlj fox sold at tho intrar acura dambs in mo－ derato demand and unchanged at 13 c c to 50 ， ert 6 to 61 c ．por boad．Kigs ratherevilier，it Gc．to 6tc．per lb．

## MY WATCH HAS STOPPED ：

OHRONOMETERS，INDEPENDEN＇DESCOMS，REPEATERS，and all VALUABLE WATOHES davainity and innanctorily repairod by

P．8．－Work hy whil will be returnod at our rink at bottom atsonares．
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LAND，LOAN AND INSURANCE GENTS，VALUATORS，ETC． OFFICE：： 1 VICTORIA STREET 1 OYQNTO，ONTARIO．
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 C．BLACKETT ROBINSON，

## $R^{\text {ECENT PAMPHLETS．}}$

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Spresd ces Presinter inism．＂ By Rev．D．H $\begin{aligned} & \text { acivicar，ILLD } \\ & \text { or } \$ 6 \text { per zoon }\end{aligned}$ Price so cents ＂It ghoald be min by every fasbyterian in the Wither
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## The las rersion preached by the late Rev．Alex．

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[^1]:    "What have we learned? To atay on our farms, and at-
    tend to our own buninoma. We have learned to cummer. fallow with a good crop of corn; to take of two erops in place of one, at double the proft--members of this alab are doing it - forty. bushels of bariey, and thinty buaholis of Whext to follow, to the scre. Wo have learned that straw
    is worth from 28 to $\$ 12$ per ton ; that phosphater and commercial fartilizers havo bean of great benofit in 20 mos localities, and in others worthless ; that a good sod, berngand mennure and wood enhes see true friondo of the larmer whan rightly appliod. We have losrned to plocse the eye in trjing to pleace the trate, hereaftor we will try to get it buat by pleasing the oyo.
    "Wo learned iroma disousaion of the water queetion, that will parify thatwater ; aleo, that the germs of diseace whioh are thrown in to the conspools of city or country, fink into the ground and are carried long distances in vairs of Water, which in one great earce of spreading typhoid fores. "Inow coms to the lime question: 'Wtat benefit have you been to the country, or to yoursairen' ' There is : front ; they are taking all the noted sericultaral papers of the countiy ; thoy are watahing ovory oxperimeat mpace by fal, and got sll the clory, and all the money they cun out of it ; and by so doing thoy are a boneft to the ocantry farmer who would be progreceliro."
    A. Beekrepers' Association has been formed at Bloomsburg.

