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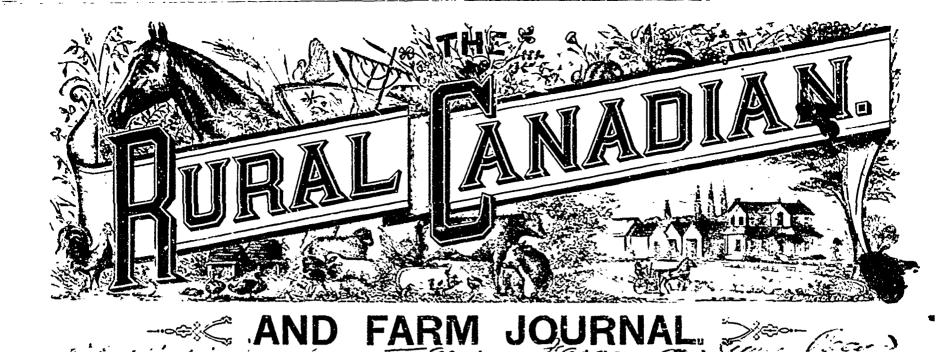
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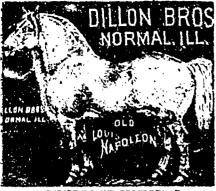


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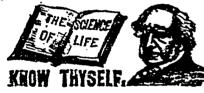
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Toronto, December, 1884.

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### RURAL NÖTES.

THE best results with grain or oil-cake, are obtained when they are mixed with straw, chaff, or turnips. Roots and green fodder again produce the most paying results when mixed with dry food.

In case of an animal being choked with a potato or small turnip lodgéd in its throat, a simple remedy is to administer a little oil or salt and then work the obstacle up or down by pressure on the outside.

THE outlet of an underdrain should be of the best quality of tile, and firmly set in stone or bricks. A covering of evergreen boughs, or boards and straw, will prevent the effects of freezing and thawing in winter.

In order to take advantage of our remarkable clubbing offer, subscribers in arrears are expected to send on arrears as well as the combination price for 1885 Do this at once and so get the full number of Rubals for next year.

THE idea of loaning money at a low rate of interest, for the purpose of enabling farmers to carry on the work of underdraining, did not originate with the Legislature of Ontario. The plan was tried in England many years ago, and in every instance the loans were repaid.

very destructive to the seed crop, and a large busy season. These we are always ready to corquantity of seed will necessarily have to be im- rect when they are pointed out. But we wish to ported. Where farmers grazed their clover until the beginning or middle of June and then left early and so help us to avoid the rush in the last the crop to grow, the midge was found to do little week of December, which is quite unavoidable or no harm to the seed crop.

Or course no intelligent farmer will dream of putting fat on his breeding ewes. Clean, bright straw with well cured cornstalks, make excellent fodder for the winter, but it is advisable to give a manner of feeding. If the animals are thin in flesh light feed of roots as the time of yeaning ap- it is never safe to put them on a heavy grain diet proaches, to stimulate milk production and to suddenly, it is better to begin with a very modermake parturition less difficult. Their quarters ate allowance—say half a pound per day, morning should be dry and moderately warm.

drains near to elm or willow trees, as the roots to feed oats than corn, as it is less heatening, of these trees ar. apt to enter and cheke them. contains less oil, and is more bulky in proportion The willow is particularly bad in this respect, and being without beauty or value its distruction does not involve much loss. Where, however, there is not much water in the soil a few willow trees answer of themselves the purpose of an underdrain.

Clarence Kirklivingston, of the Bow Park herd, transplant, and they will soon overtake saplings such a subject than Mr. Allan.

won the Shorthorn sweepstakes prize; also the grand sweepstakes for the best animal in the show, open only to winners of their respective classes, also the prize for the best carcase. This animal weighed 2,400 pounds, at 1,870, days, showing an average gain of 1.74 per day from his birth.

Don't let your subscription run out. Renew promptly. Our combination offers make this an easy matter on very favourable terms. The RUBAL CANADIAN and The Canada Presbyterian is only \$2 per annum; THE RURAL CANADIAN and the Montreal Witness \$1,25; and THE RUBAL Canadian and London Advertiser at the extraordinary price of \$1.15. Take your choice and renew without delay.

THE ailment of horses known as heaves is usually caused by the feeding of dusty and musty food, although in some cases it comes from indigestion, and in some it is inherited. Prevention is easier than cure, and with the thoughtful farmer prevention is a first consideration. Relief, however, may be afforded by feeding the affected animal with moistened food of a nutritious kind, keeping the system open and avoiding severe

We have been adding a large number of names to our list during the past month, and expect a regular rush during December. Our staff of clerks is large and experienced, but in spite of Tms season again the clover midge has been all efforts mistakes are sometimes made in our say to friends that the best remedy is to remit when so many put off renewing to the last

FARMERS who are fattening sheep for market know that great care requires to be exercised in the and evening while they have still got the run of the fields, and if they begin to gain on this the Ix underdraining it is well to avoid laying allowance may be slowly increased. It is safer to weight.

> Hox. H. G. Joly advises the planting of maple orchards on hill-sides, but instead of transplanting saplings from the forest he would collect seedlings as they may be found after the fall rains, and set them out in a garden for three or four

of ten feet high, taken direct from the woods. A bare hill-side is often of no value for farming purposes-being difficult to work and yielding but a light crop of grain or grass, but if converted into a maple orchard the benefits are obvious.

It is reported that in consequence of the low price of wheat some of our Ontario farmers propose feeding it to their stock instead of sending it to market. An English farmer says that after the drop in wheat following the Crimean war, he fed it to horses and cattle rather than sell it for 36s per quarter. He ground it, boiled it, sprouted it, and even fed out large quantities of it whole; but the usual plan was to sprout it and then feed with chaff or roots. Horses fed on the wheat so prepared, fattened rapidly, but they required great attention. A little common nitre added to the water they drank was given with good effect once or twice a week.

WHEREVER infectious diseases break out. whether in the stable or the household, there should be a liberal use of disinfectants. Bleaching powder was formerly used for the purpose. but charcoal and carbolic acid are regarded as more efficacious. The latter, however, is more generally used than the former, no doubt because it is more easily procurable and because a very small quantity is effectual. Being a powerful drug it needs to be handled with care, for it is a deadly poison if taken internally; even the outward application is daugerous, as it rapius canterizes the fleshy tissues, and is absorbed by the pores of the skin. When used as a disinfectant it should be diluted with eighty or ninety per cent of water; or four ounces of the acid may be mixed with a pound of precipitated chalk or fine sand. In the latter form it makes a very valuable disinfecting powder.

In writing on the subject of shipping apples to England, Mr. Alex. McD. Allan, of Goderich, says in the November Herticulturist. "Give me a cargo of choice apples, leading varieties, such as Russets, Baldwins, Spies, King Tomkins County, R. L. Greenings, Ribston Pippin, Blenheim Pippin. Wagner, Ontario, Mann, etc., all well selected and packed, and I care not how the British market may be flooded with apples from other countries, I can sell at a paying figure, and am sure of a higher price than any other country can demand, because our appies, especially from the central and northern belt of Ontario, are superior in point of quality to any in the world, and British as well as other consumers are aware of this. To growers I say choose best leading varieties and plant more trees. Plant, plant, plant!" This thoroughly endorses the opinion on the same subject expressed in the November number of The Ar the Chicago Fat Stock Show the white steer years. By this time, he says, they will be fit to Kural, and we could wish no better authority on

### FARM AND FIELD.

WALKS AND TALKS AMONG THE FARMERS,-NO. VII.

FOR THE RUBAL CANADIAN.

Again we have had the dreary-looking spectacle of men and boys working in bad weather, with mud-beclogged boots, and numb-cold fingers getting in a turnip crop, which Jack Frost threatened to make a fixture in the ground all winter. And, again, when their dirty, miserable task was finished, the Indian summer has come out of its retreat and laughed at them.

Tunsip-Growing is an agricultural hallucination in this country. It was brought here by men who imported it under the influence of a determination to transfer to Canadian soil everything that is good in British farm practice. But the erop is about as well suited to the Canadian climate as Indian corn is to the climate of England and Scotland. We have to put it in laborjously amid the summer heat, and it is either a race or a fight with winter to get it harvested. There is a big job housing it, and when it is wanted for feeding it is a final task to get it out of the pit or cellar in which it has been stored. All this toil and trouble over a product that is, at best, ninety per cent. water. That is to say, if a man grows 500 bushels of turnips to the acre, he handles 30,000 pounds of bulk for the sake of 3,000 pounds of nutriment.

In many talks I have had with farmers on this subject, I find it almost impossible to convince them that out of every 100 pounds of turnips, ninety are only water. They have the idea that it isn't water but turnip juice, which is, of course, a great deal better than water. But, oh! my innocent bucolic friends, this is all delusion. Ninety pounds of water, no better than you find in a common creek, pend, or lake, and then ten pounds of solid food: such is this wonderful bulk that you take so much pains to cultivate.

In Great Britain, turnips are grown and harvested under fewer difficulties than here. The moist climate suits them better. In this country under our burning sun, I positively believe they exhale ammonia, instead of absorbing it. In no other way can I account for the immense consumption of fertilizing material by a turnip crop. In Britain, there is no hazard of the bulbs getting frozen in. You can usually feed them to advantage where they grow. If you pull and pile them, they need no other protection than their own leaves. The whole process, except the preparation of the soil, is attended with far less labour in the old country than here. Yet we, who need to economise labour, must needs throw it away in super-abundance on growing turnips.

You can raise the same quantity of nutriment much easier by growing corn or clover, and escape the annual vexacion of getting turnips out of the ground in bad weather. In fact, it is no great trick to raise 3,000 pounds of nutritious matter to the acre in various crops. A big yield of turnips is nothing to bray of, seeing that a farmer cultivation.

portion of them is nothing but water? Because cattle need a liberal supply of water in winter, and do best when they get it little and often. Give them constant access to water and the same amount of solid ' d that they get in turnips, and they will do equally well.

inspectors went around our concessions and sidelines, a great many farmers would be arrested for not giving their animals a due supply of water. The sufferings of the bovine race from this cause are terrible every winter, and the man who keeps up a lot of stock on dry feed without ample and constant access to water, should just be put on that kind of diet himself for a while. It would be punishment sufficient. In the summer time when go to drink several times a day if they have the chance of doing so; how much more do they need to slake their thirst often when on dry

YES, turnips are a substitute so far, for constant access to water, and we find that animals which have daily a liberal ration of turnips are not punished by thirst, and do not care to drink when they have the opportunity. But, I prefer to water my stock by spring, well or cistern, to growing ninety pounds of water in ten pounds of turnip rind. The days are said to have gone by when farmers take a bag of wheat to mill on the back of a herse, the wheat in one end of the sack and a stone in the other to balance; but there is considerable of the same kind of folly shown in other ways.

What shall we do for a cleaning crop if we do not grow turnips? Raise corn and potatoes instead, that is if you must do a lot of hard work with the hoe to make, prove and keep youi industrious! But if you would have a comparatively easy time, clean your land with clover, which, while it hills weeds, deposits a good coat of manure on the field. How preciously afraid some people are that farming will be made too easy, and that the devil will get them yet, on the principle that-

.. Satan finds some mischief still For idle hands to do!

But that catastrophe can be averted without growing turnips.

I REGAN this talk by referring to the glorious uncertainties of our climate in regard to the setting in of winter, and whether we grow turnips or not, wisdom suggests the policy of being ready in good season, so that if the ice-king makes us an early visit, we may not be taken unawares. There are always a number of things to be done before the cold season sets in, and how few there are who have forethought enough to get these things accomplished so as to be all ready, and waiting for winter to come. Too many are, like the cow's tail, always behind. Instead of driving their work, it drives them. It's a very bad habit, but no bad habit is more common than this.

As to the weather and seasons, every fall brings a host of contradictory predictions. I never knew a year in which both a mild and a severe winter was not prophesicd; and each prediction was for ified with proofs in the thate of signs and proverbs, as though people did not know that these things were often very contradictory. Thus on a different subject than the weather, we have whose place is well watered, has nine-tenths of the two inharmonious proverbs: "A rolling stone the product ready to hand, without the toil of gathers no moss," and "A setting hen never grows fat;" both of which are true and have many illustrations, and yet are contrary to But how is it, I have been asked many a time, one another. Many weather signs and proverbs that stock do so well on turnips if the larger pro- are capable of being interpreted either for or against the prospect of a hard winter. The safest prophecy in regard to this matter is the famous one of Josh Billings: "There will be some

There on hangs a tale. If there were a Society I that a premature snap of winter is succeeded by a for the prevention of cruelty to animals whose longer or shorter pleasant period preparatory to the actual closing in of the hard season. The "oldest inhabitant" can possibly recall exceptions, but they establish the general rule. Winter does not come, any more than death, without sufticient and timely warning. Our last spell of fine weather before winter finally sets in, is that strange, weird, hazy, peaceful, brief period we call Indian summer. It is nature's hectic flush that precedes death. What perfect days and sleepful, cattle are on green, juicy feed, we see them dreamy nights m ke up the Indian summer! How soft and enticing is the mellow sunlight! All things are lulled to rest, and there is a universal hush. A sweet silence reigns everywhere, as if the outer world had sunk into a profound slumber.

"O, rire, brief season, thou hast all the charms
Of summer's gladness blent with thine own peace.
How like thou art to beautiful old age—
The restful calm where active labour cease.
And, pausing on life's threshold cre he leaves.

One sees heaven's smilight smiling on his sheares!"

W. F. C.

#### ONTARIO'S CROPS.

The report of the Bureau of Industries for November deals chiefly with the grain and root crops of the Province, and gives tables of produce based on 1,250 returns made to the Bureau on the 25th of October. These tables show that the harvest of grain crops has been even more bountiful than appeared by the estimates of the 1st of August, and form a gratifying contrast to the tables of last year's harvest. The quality of the grain, too, is generally excellent, being plump, hard and heavy. Barley, however, was badly discoloured by the rain of the harvest season, and the bulk of i. does not rank higher than second grade. Wheat is remarkably free from defects of any kind. The grain is above the standard weight, and the average yield of the spring and fall varieties is 23.8 bushels per acre, or 9.6 more than last year. Oats also show a large yield, although in the northern and north-western counties, this and other spring grains suffered from the drought of June and July. Compared with the harvest of 1883, the aggregate and average yield of cereals is as follows: Fall wheat aggregate, 1884, 20,722,288 hushels; 1888, 11,-626.957 bushels. Average, 1884, 24.9 bushels: 1883, 10.6 bushels. Spring wheat aggregate, 1884, 14,609,663 bushels; 1883, 9,726,068 bushels; average, 1884, 20.2 bushels; 1883, 16.6 bushels. Barley aggregate, 1884, 18,119,-041 bushels; 1883, 18,414,837 bushels; average, 1884, 27.3 bushels. Oats aggregate, 1884, 5,788,-025 bushels; 1883, 5,573,609 bushels; average, 1884, 38.6 bashels; 1883, 38.6. The total yield of peas is 13,691,607 bushels, or 3,000,000 bushels more than last year; while the average per acre is twenty-four bushels, or three to four bushels more than last year. The quality is of unvarying excellence, little or no damage having been done by the bug. Beaus and corn, which were in an unpromising condition toward the end of July, made a surprisingly good recovery in August, and steadily improved to maturity. The yield of the former is 592,044 bushels, and of the latter 12,935,889 bushels, being an average of 23.8 and 74 bushels per acre respectively. Last year both crops were destroyed by the early frost. The root crop is generally an excellent one, especially in potatoes, mangolds and carrots. Turnips suffered to some extent by the August drought, but they are of good quality. The aggregate and average yield for 1883 and 1884 is as follows. Potatoes, aggregate, 1884, 27,546,262 bushels, 1883, 16,400,782 bushels, averag., 1884, 153.2, 1883, 98. Mangolds, aggregate, Ir is, however, almost, if not always the case 1884, 8,655,184, 1889, 62,522,015; average, 1884, 474.9; 1883, 868. Carrots, aggregate, 1884, 4,197,200; 1888, 864. Turnips, aggregate, 1881, 41,406 363; 1888, 29,879,535; average, 1881, 426.2; 1883, 801.

THE USE OF LIME AS A FERTILIZER.

BY HENRY STEWART.

The best time to apply lime is in the fall, for the reason that it is more easily dissolved in cold water, and is then the more actively effective. It is also a more convenient season for the work than any other. The manner of using it is to draw the lime as fresh as possible from the kiln, and drop it in the field in heaps of one or more bushels a certain number of feet apart, this depending upon the quantity to be used per acre. Thus for spreading the following quantities the sizes of the heaps and the distances apart will be as follows:

40 bushels per acre is a bushel 33 feet apart. 50 bushels per acre is a bushel 30 feet apart. 60 bushels per acre is a bushel 27 feet apart. 80 bushels per acre is two bushels 33 feet apart. 160 bushels per acre is two bushels 30 feet apart. 120 bushels per acre is two bushels 27 feet apart.

The table may be easily carried on up to 300 or more bushels by a simple process of addition to the size of the heap. This method is chosen because at thirty-three feet apart the heaps are easily and accurately spread by casting the lime with a long-handled shovel sixteen and a half feet, or one rod, in every direction, and sixteen and a half feet is an easy cast with such a shovel. The lime having been drawn and dropped in the field, is left until it has absorbed from the air or has received from the rain enough water to reduce it to a fine powder. It is then air slacked and should be evenly scattered without loss of time, because more water would make it pasty, and it could not be evenly apread in that condition. The best way to apply it in the spring is on the ploughed ground or upon the meadows during the present or the next month. It should never be ploughed under, as it works downward very rapidly, and would soon pass below the reach of the roots. It should be harrowed in the soil along with the seed, and it will do no harm if the manure is covered in at the same time, for reasons to be explained presently. It may be spread directly from the waggon, the heaps having been made upon the headlands or in an adjoining field in quantities of one hundred or more bushels. As soon as the lime has been properly slacked, it may be drawn upon the field and scattered upon each side in strips thirty-three feet wide, or sixteen and a half feet (one rod) from the centre of the waggon-box. A waggon-box will hold conveniently for this purpose twentyfive bushels, so that a load of this size will cover a strip fifty rods in length for fifty bushels per acre, or twenty five rods if eighty bushels per acre is used. In this way the quantity spread can be accurately measured. A waggon-box of the usual size will hold forty bushels of lime when slightly rounded up.

The action of lime upon vegetable matter, as has been already stated, is to liberate ammonia from it and to produce nitric acid by hastening its oxidation or decomposition. If mixed with decomposed manure, it rapidly drives off the ammonia in vapour or gas, and it rapidly changes the nitrogen of raw manure into very soluble compounds. Thus, if mixed with manure, either old or fresh, without precautions, it will seen deprive it of its most valuable properties. This is so well understood that there exists amo g well informed farmers a prejudice against the use of lime, under the impression that it "eats up manure," "improveriehes the ground," and generally acts in a wasteful and predigal manuer. It is

well that this impression exists, because lime is a substance to be used with knowledge and judgment. It should never be mixed with old manure in a heap at all, nor with fresh manure unless it is in the compost heap, where a large proportion of earth, sods, or plaster is used; and these will act as absorbents of any ammonia liberated or nitric acid formed by the action of the lime. But in properly constructed compost heaps lime acts as an active agent to produce an active decomposition of the mass and quickly prepares it for use in the field. Also, when lime is spread upon newly manured soil its action is not wasteful, because the soil at once absorbs the ammonia that is liberated and holds it until it is finally prepared for the use of the crop.

From the above explanation it is readily seen how true may be the old adage that "lime curiches the father, but impoverishes the son," as though the former spent his substance in expensive enjoyments and left his son without inheritance. This is true enough if the lime is used without judgment, just as money may be spent recklessly. But no one blames the money for this, nor should we give the lime discredit for the fault of those who use it. Lime is a food and an active provider of food at the same time. It thus gives the plant what it has in itself, and all that it can draw from the soil as well. In this lies at once its usefulness and the danger of using it. If a farmer uses it to drag from his field all the fertility contained in it as he would drag a fish pond with a nct, or spend from his pocket without returning to it, then he injures himself by exhausting his land; but if he gives manure, plows under clover, feeds more stock with his enlarged crops, and returns to the soil the food supplies he has drawn from it, then he uses this valuable fertimost remunerative manure he can use for the money spent in it. The usual price of lime at the kiln is from ten to twelve cents a bushel of eighty pounds when fresh burned, or half that price for slacked or waste lime. The former is the cheaper. One who has limestone to be en ily procured, or abundance of clam or oyster sheas, can burn it in kilns or pits for five cents a busuel with wood or coal as fuel. At these prices there is no cheaper way of improving land than by using

The pastures in wood-lots are generally so poor that they cannot be depended upon. Where a maple grove can be formed by cutting out other trees, the wood-lot can sometimes be profitably used as a pasture. It should be seeded with orchard grass, that being best adapted to growing in the shade.

There is so much level arable land in this country that there is no necessity for a long time to come for ploughing steep hill-sides. Such ploughing involves immense losses by the washing of the loosened soil on the level lands below, where there is already an excess of vegetable matter. Many rough hill-sides should never have been cleared of their original forest, or if cleared should have been replanted with timber with as little delay as possible.

Those farmers are unfortunate whose necessities oblige them to sell grain at present low prices. It is better to restrict farm operations than to extend them when the product of the soil, if sold, detracts as much in value from its fertility as the price it brings. This fertility must so mer or later be restored. When grain is cheap the farmer should strive coulty hard to dispose of it in the shape of pork, beef, poultry, or the products of the dairy and henhouse. Even if he does not get full market rates for grain so fed he will be the gainer in the end.

### HOUSEHOLD HINTS.

Flowers may be kept very fresh over night if they are excluded entirely from the air. To do this wet them thoroughly, put in a damp box and cover with raw cotton or wet newspaper, and place in a cool spot.

Cur some new turnips into quarters, put them into a sauce-pan with a piece of butter, give them a toss or two on the fire, then pour in enough stock to cover them; add pepper and salt to taste, also a little grated nutmeg, and let them stew slowly till done.

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To keep worms from dried fruit place your fruit in a steamer over a pot of boiling water, covered tightly. When thoroughly heated, tie them immediately in a clean linen or cotton bag and hang them up. This method is preferable to heating in an oven, as that is apt to render them hard, even if you are so fortunate as not to burn them.

CAULIFLOWER is particularly good when boiled until tender, changing the water twice, and taking care that no seum is left to discolour it. When done drain off every drap of the water, and pour over the cauliflower, while still in the kettle, some milk, adding a good sized lump of butter and some pepper and salt; let this just come to a boil. Serve hot.

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The latest fancy in sheets and pillow-cases is to make them of black, red, pink, blue, or primrose, yellow Surah, or foulard silk; trim them with cream, ficelle-gray, or black lace, and use them only when necessary to receive, in spite of indisposition, in bed. The coverlet over such sheets and pillow-cases is of silk broche, any colour preferred, lined with setin to harmonize, and bordered with swans' down, feather bands, or light fluffy fur. The camisole or gown must match the colour of the sheets.

For a luxuriant growth of green in winter, put some lumps of charcost in the bottom of a suitable vessel (I use one of my hyacinth glasses) and fill with water, or take an ordinary flower-pot, making the bottom tight; put in the charcoal, cover with sand to the depth of two inches and fill up with water. Put in thrifty slips of English and German ivy, and the varieties of tradescantia. If sand is used, place the stems firmly in it. As the water evaporates fill with fresh. A beautiful effect is produced by simply placing a handful of the heads of wheat in a vase of water. Each grain will send out bright green leaflets and continue to replace the old one for many weeks together.—Boston Transcript.

To make choice and delicate pie-crust, the essentials are: A pound of flour, a quarter of a p and of butter, a quarter of a pound of lard, half a teaspoonful of salt, a cup of cold water, a cool room, and quick movements. Put the flour on the moulding-board, spread the butter and lard through it in flakes, moisten with the water, draw into a heap, dust over with flour, and roll out tenderly. Fold and roll out two or three times, when it will be ready for use. Instructions were given in preparing and baking fruit and berry pies of various kinds so that the juices could all be retained in the pie, and both upper and under crusts ho grisp and unscaked.

### HORSES AND CATTLE

HEREFORDS-IS17. 1884--A CONTRAST.

Two striking pictures are shown herewith. Looking into a book that was printed sixty-seven years ago, we found on its frontispiece a finelyexecuted engraving of one of the best Herefords of that day. The interest is heightened by the comparison of this animal with the one below, sketched from a Hereford of to-day. It would

provement that has been made within two-thirds of a century. The book from which we produce the first portrait is entitled "The Code of Agriculture," by Rt. Hon. Sir John Sinclair, Bart., founder of the British Board of Agriculture. This "Code" was published in England in 1817, and in the following year it was reproduced in America. The second ongraving shows the bull Sir Garnett, imported from England, and now in the herd of C. K. Parmelee. In this model animal the greatly increased depth of the body, the better clothing of the legs and the shoulder with desh, the shortening of the neck and broadening of the back, and the general rounding out of the form, are charncteristics especially noteworthy. The more placid expression of the modern bull as compared with that of the bull of 1817, may be to some extent due to the skill of the artist who has placed on the

among the leading beef breeds: "Though it is extremely desirable to bring the shape of cattle to as much perfection as possible, yet profit and utility ought not to be sacrificed for mere beauty, which may please the eye, but will not fill the pocket; and which, depending much upon caprice, must be often changing. In regard to form, the most experienced breeders of this day (1817) concur in this: 1. That the form or shape should be compact, so that no part of the animal should be disproportioned to the other; and the whole not be easy to better illustrate the marked im- be distinguished by a general fullness and rotund-

ought to possess. The form must likewise be such as to contain the greatest possible proportion of the finer, compared to the coarser and less valuable parts of the animal. This, by selection, may be attained; and thus the wishes of the commoner may be gratified.

"The form of animals has fortunately attracted the attention of an eminent surgeon (Henry Cline, Esq., of London) the substance of whose doctrines are: 1. That the external form is only an indication of the internal structure. 2. That the lungs of an animal is the first object to be

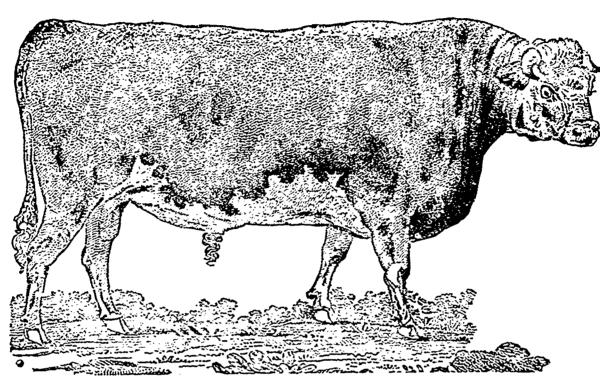
attended to, for on their size and soundness the health and strength of the animal principally depend. 8. That the external indication of the size of the lungs. are the form and size of the chest, and its breadth in particular. 4. that the head should be small, as by this the birth is facilitated -as it affords other advantages in feeding, etc .and as it generally indicates that the animal is of a good breed. 5. That the length of the neck should be in proportion to the size of the animal that it may collect its food with ease; and 6. That the muscles and tendons should be large, by which an animal is enabled to travel with greater facility.

"The most desirable properties of livestock in general, may be considered under the following heads: 1. size; 2. form; 3. early maturity; 4. hardiness c constitution, and 5. prolific quality: to which may be added, with regard to those sorts

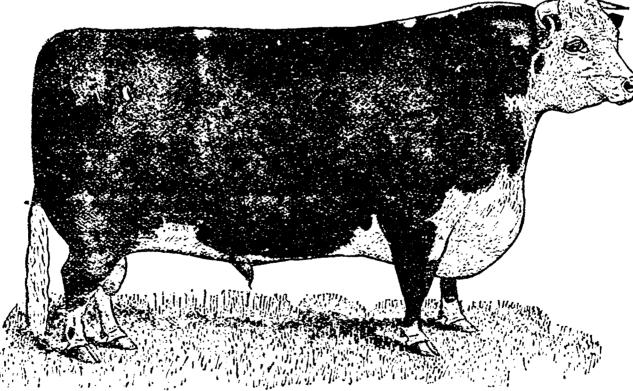
which are destined for food: 6, a tendency to grow; 7. a disposition to fatten, and 8. lightness of offal."

### HOW TO TELL A HORSE'S AGE.

The foal is born with twelve grinders. When four front teeth have made their appearance, the colt is twelve days old; and when the next four assert themselves its age will be about twentyeight days. The corner teeth make their appearance when the foal is eight months, and these latter attain the height of the front teeth at the age of a year. The two-year-old has the kernel—the



THE REPRESENTATIVE HEREFORD OF 1817.



THE REPRESENTATIVE HEREFORD OF 1884.

block a true likeness of a typical Hereford of 1884, showing not ity of shape. 2. That the chest should be the form alone, but the colour-marking which bread; for no animal whose chest is narrow can forms so plain a distinguishing characteristic of easily be made fat. 3. That the carcass should be deep and straight. 4. That the belly should the breed. The horns of the Herefords are generally rather strong, at a first glance giving a be of moderate size; when it is more capacious than common in younger animals, it shows a somewhat coarse appearance of the head, compared with those of other pure breeds, notably diseased state, and in older ones it is considered the Shorthorns. The following quotation from a proof that the animal will not return in flesh, the Code of Agriculture will be of interest, since in milk, or in labour, the value of the extra quanit places clearly before the reader the principles tity of food which it consumes; and 5. That the of breeding announced in 1817, which have head, the bones and other parts of inferior value, brought the Herefords into their present excellent should be as small as is consistent with strength, form, giving to them their honourable position and with the other properties which the animal dark substance in the middle of the tooth's crown -ground out of all the front teeth. In the third year the middle front teeth are being shifted; and when three years old those are substituted by the permanent or horse teeth, which are larger and more yellow than their predecessors. The next four teeth are shifted in the fourth year, and the corner teeth in the fifth, giving place to the per-

At five years of age a horse has forty teeth, of which twenty-four are grinders far back in the jaw, with which we have little to do. But, bo it remembered, horses invariably have tushes, which mares very rarely do. Before the age of six is arrived at, the tush is full grown, and has a slight groove on its internal surface (which generally disappears with age, the tush itself becoming more rounded and blunt); and at six the kernel or mark is worn out of the middle front teeth. There will stil' be a difference of colour in the centre of the weth.

The tushes have now attained their full growth, being nearly or quite an inch in length; convex without, concave within, tending to a point, and the extremity somewhat curved. Now, or perhaps some months before, the horse may be said to have a perfect mouth.

At seven years, the mark, as described, is very nearly worn out of the four- centre nippers, and fast wearing away in the corner teeth-especially in mares; but the black mark still remains in the centrelof the touth, and is not completely filled up until the animal is eight years old. As he gets on past seven the bridle teeth begin to wear away.

At eight the kernel has entirely disappeared from all the lower nippers, and begins to decrease in the middle nippers. It is now said to be " past mark of mouth."

When more than seven, the knowing ones are accustomed to go by appearance of the upper fronts, from which some conclusion may certainly be drawn, as the marks remain in them long after they have been lost from the bottom ones. Much reliance can never be placed on the tushes; for sometimes they may be found quite blunt at sight, and as often remain pointed at eighteen, and sometimes those in the same mouth will show an apparent difference of a year or more.

There are indications which enable very shrewd observers to guess at a horse's age after eight years even, but none to enable accurate determination. In the ninth year the mark has entirely disappeared from the upper middle teeth, and the hook on the corner only has increased in proportion as the bridle teeth lose their points. At eight the upper surfaces of the pippers are all oval, and as the animals get older they diminish in width, but not in thickness; they become more rounded and appear wider apart.

### TEACHING A HORSE TO PACE.

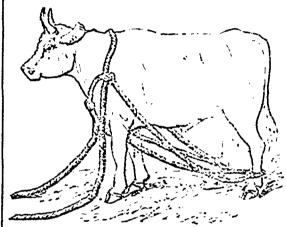
To teach a horse to pace, take nine or ten pounds of lead, divide in Dur parts, equal to three and three-quarter inches by four and a half in size; make two holes in each end of these leads; fasten two of them together and have them padded. Then fasten them on the horse's legs, one on each bind leg, just above the ankle joint. Ride your horse briskly with these weights upon his ankles, at the same time pulling each rein of the bridle alternately. By this means you immediately throw him into a pace. After you have in this way trained him to some extent, change your leaden weights to something lighter; leather paddings, or something equal to it, will answer the purpose. Let him wear the light weights until he is perfectly trained. By adopting this plan you will speedily make a smooth and casy pacer of any horse. - I ouisville Courier-Journal.

### FEEDING CARROTS.

The carrot is excellent when employed as a tonic for old horses in order to purify and beauty. strengthen the blood; but its use is dangerous for young horses, and especially for stallions. It gives them too much blood, makes them nervous, irritable, spiteful, or vicious when at work, and predisposes them to apoplectic fits if they do not take enough exercise. Geldings and mares might not be particularly liable to inconveniences of this nature, nevertheless, in all cases carrots should be given with the greatest moderation to horses of less than ten years of age. For horses past this age they may be harmless, and with oats they may constitute a valuable article of food. Horses eat them with avidity, especially when they are mixed with coarse bran. - I reach Laper.

### HOW TO CAST AN ANIMAL.

ENQUIRER Writes In THE RURAL CANADIAN of December, 1882, or January of the following year was given directions for casting an animal. Will you kindly reproduce the article and illustration? We do so with pleasure, as the information may be useful to thousands of readers who were not then on our subscription list:



Pass a rope first around the neck, a noose being formed in the centre of a strong rope, the ends of which are carried between the fore legs, each respectively drawn through the ring upon the hobble put upon each hind fetlock, and afterwards through the rope collar upon each side. The head being secured, force is applied to one rope, in a line with the body, the pullers being behind, and the other at right angles, or from the side. When the animal falls the ropes must be secured by drawing them into knots at the collar or around the fetlocks of the hind feet.

### A REMEDY FOR BALKY HORSES.

I once heard of an unfortunate gentleman who had become insane, but was restored to sound health simply by causing the mind to make a sudden revulsion, which was done by skilfully causing him to become jealous of his wife, who was a most excellent lady and aware of the process. On this hint we might learn to manage a balky horse. He is incane on the subject of going, that is self-evident. If we manage to make him think on some other subject, he will naturally forget about going and go before he knows it. The following devices have been successfully tried to accomplish the desired end: First, tying a string around the horse's car close to the head; second, hitching the horse's tail to the single tree by means of a cord; third, filling the mouth full of some substance; fourth, tying a stout twine around the leg, just below the knee, and then removing it when he has travelled some distance. Never whip a balky horse, for the more he is whipped the crazier he will become. Let everything be done gently, for boisterous words only confuse him and make him worse. Treat him in the mild manner that you would a crazy man, and you will succeed.—Home and Farm.

### CREAM

The hair of the horse is sometimes his mane

One of the sublimest things in this world is plain truth. Bulacr

Why is a kiss like a rumour? Because it passes from mouth to mouth. There is no rainbow without a cloud and a

storm.—F. II. Viwent.

In prayer it is better to have a heart without words than words without a heart.

"Wox by a bare scratch!" as the hen observed when she turned up the worm.

Ma. Mons wrote to a girl asking her to marry him. She declined, and closed her note with No More at present."

Lirk's field will yield as we make it
A harvest of thorns or of flowers.

— Alice Cary.

Ir you want to be miserable, think about yourself, about what you want, what you like, what respect people ought to pay you, and what people think of you. - Charles Kingsley.

AFTER her grandmother had given her a good scolding, a little mischief was overheard to say to herself: "Somebody is cross in this room; 'taint me, and 'taint dolly, and 'taint kitty. I wonder who it is?"

" Mamma, cried little Willie, " I want an errand. Oh, I must have an errand!" "Why, child, what do you mean?" "Oh, Harry's mamma said he had gone down town on an errand, and I want one to ride on too."-Harper's Bazar.

Wife-"I notice a statement to the effect that in this city every year \$22,000,000 is spent for liquor, but only \$7,000,000 for religion. That's significant." Husband-" Significant of what?" Wife-"That you men are having a pleasanter time in this world than you will in the next."

A TRAMP stopped at a house the other day and asked for something to eat. "Which do you like best?" asked the hired girl. "Steak or chop?" The tramp hesitated a minute, and then replied, "Chop." "Step right this way," said the hired girl. "Here's the axe and there's the wood-pile."

"My dear, " said a wife to her exhausted husband in a dry-goods store, "do you notice those ladies' pocket books marked fifty cents each? They are remarkably cheap." "I notice them." he said, edging in the direction of the street entrance, "but remember the old maxim: 'Never buy anything you have no use for because it's cheap. '

Mr. Brows took home a splendid doll one day for his little daughter. It was provided with a wonderful piece of mechanism which enabled it. on being squeezed, to emit the squeaking sound, supposed to imitate the human voice, so dear to childhood. That same evening the dear little puss was sitting on her father's knee, and several times pressed her small fist upon her parent's shirt front. Producing no effect she looked up in the parental face, saying. "Papa," "Yes. What is it, my child? "he replied. "Why don't you equeak, papa?

### YOUNG MEN!-READ THIS.

THE VOLTAIC BELT Co., of Marshall, Mich., offer to send their celebrated Electro-Voltaic BELT and other Electric Appliances on trial for thirty days, to men (young or old) afflicted with nervous debility, loss of visity and manhood, and all kindred troubles. Also for rheumatism, neuralgia, paralysis, and many other diseases. Complete restoration to health, vigour and manhood guaranteed. No risk is incurred as thirty days' trial is allowed. Write them at once for illustrated pamphlot free.

### SHEEP AND SWINE.

### FRENCH TREATMENT OF LAMBS.

A owe goes in young twenty-one weeks, and a lamb born ten or thirteen days before its time rarely lives. Yeaning is not attended with serious difficulties if the animals have been duly cared for, and kept in a condition neither too fat nor too lean. Before the period of parturition, they ought to be generously fed, and if onethird of a pound of bran, bean or pea meal, cake flour, etc., be added to their rations, so much the better. The interference of the shepherd with the ewes is often useless, and frequently injurious. Leave them in tranquility; but if a false presentation takes place, introduce the hand, carefully rubbed with oil or lard in advance. If anything more serious arises, call in the veterinarian. Should puerporal fever show, the disease being so contagious, the shepherd ought on no account, touch a healthy sheep after being in contact with an affected ewe.

Ewes that produce two lambs ought to be kept in separate cribs, to prevent the young going astray if the mothers were kept in the flock. The numbering and marking of the lambs should take place very early. The teats of the mother ought to be regularly examined, to ascertain if the milk flows freely. If necessary, make the teats supple, and remove any wool in proximity, so that the lambs may not contract the habit of eating wool. If all goes well, the lamb and its mother can be turned loose after three or four days; but if she refuses her milk the sojourn in the shed is to be prolonged. The shepherd ought to bring the lamb near to the mother's teats and milk a few drops into its mouth. As in the case of calves, the first milk of the mother is good for lambs. If the ewe gives too much milk, a certain quanfity must be milked away and the rations diminished. This remark applies, of course, to ewes that have lost their lambs. If it be found that a mother has not sufficient milk for a lamb you desire to rear, obtain a nurse; the same treatment for a lamb that has lost its mother. Avoid, if possible, cows milk, but if it be a case of Hobson's choice, give the preference to the milk of a six months' farrow cow. The state of the udder should be well looked after; for if the milk accumulates, an ulcer will be the consequence. If a mother has too much milk, and the lamb cannot consume all, reduce the forage. If a mother dislikes a lamb, the shepherd ought to reconcile them; and if, in the case of two lambs, one takes more than its fair share of milk, muzzle the offender; but good milking mothers rarely allow

There cannot be good lambs without good milk; hence, select not only those ewes notable for their milking qualities, but supply them as early as possible with succulent food. When the lamb recognizes its mother, they can join the flock. It world be well to have lambs yeaned within fifteen days of each other grouped together. This classification will aid the weaning process. It will be a necessity if the yeanings of the flock extend over five weeks. To enable the lambs to be alone, it is good to separate them when four weeks old, from time to time, from their mother; this can be effected by having a hole in the pen, by which they can run in and out without the mother being able to follow them. By closing the aperture for fixed periods the commencement of the weaning can be made.

Lambs ought never to suckle less than three months, and weaning is the best time suited for selecting those to be reared—free from defects in chape, debility or fleece. Never rear any but good animals; their keep is not greater, and the care they demand is perhaps less. For four or if you have them and cannot sell them, or do not out of it.

five months after the weaning continue the feeding commenced during the suckling. Tender hay is excellent, increasing until the ordinary rations of the flock can be enjoyed. To the hay add a little oats auguenting both with the advancing growth of the animal. When sent to graze for the first time care should be taken that the lambs be protected from the weather, and at the same time be well guarded. If the period be damp or moist it is not a bad plan to give a little hay or dry fodder, or let them remain all day in the shed. If the sheep are to be shed reared let the building be well ventilated, the rations good, and the exercise adequate. When ten days old castrate and dock the lambs The amputation of the tail is much practiced on the Merinos and English breeds; the appendage economically, is useless; it accumulates filth. In France the shepherds have ever an interest in the yeanings being good; their salaries are increased, or a percentage allowed on sales, less deductions for losses.

In the case of a race of sheep that produces two lambs, one is sold off at an early hour to the butcher. To produce meat, the French ewes are generally crossed with English rams. It is said that the ficsh of the female is better than that of the male lamb. Often the mother and lamb are fattened simultaneously; that is, the former is well kept on roots and hay before, as well after yeaning, so that the mother, when dried, can be easily finished off. Artificial feeding is not in favour for fattening lambs. From M. Magne's expertments it appears the rate of increase in flesh of a lamb is, during the first week, ten and one-half ounces; the second, seven and one-quarter ounces, and between seven and eight ounces afterward; in other words, a lamb gains, on an average, in ten weeks after yeaning, about thirtyfour pounds of flesh. The disease that lambs are often subject to, known as muguet, and which is due to feebleness of constitution and defective digestion, is a cryptogamic kind of vegetation in the mouth. It is often accompanied with chancres. The mouth ought to be washed by means of tow or old linen, on a stick, with a solution of alum, common salt, or borax. Give mealy or salty drinks. -N. F. Farmer.

### WINTERING YOUNG PIGS.

Pigs born later than the first of October will need good care and skillful management to keep them in a thrifty, growing condition through the winter. This is particularly the case if you keep them in large numbers, and it is a good plan to sell all you can before winter sets in. People who keep only two or three pigs to eat up the slops from the house can handle their late pigs to better advantage than the large farmer or breeder. Such young pigs need milk, greasy water, or broth and bread, or cooked potatoes, with corn meal pudding; these are more likely to be liberally furnished from the kitchen when you have only two pet pigs than when you have two score or two hundred. Whatever method of feeding is adopted, let it be liberal. Let them have all the good feed they will cat-no more, no less. Let them have good, dry, comfortable quarters to sleep in, and disturb them as little as possible. Pigs are in part hibernating animals. The more they sleep the better for them and their owner. We do not want to fatten pigs in winter. We simply want to keep them in healthy, growing condition, and the fatter they are when winter sets in, the easier it will be to carry them through the winter. Pigs well wintered, are in good condition to thrive well on grass and clover next summer. They will do far better on pasture alone than young spring pigs. We are not now

wish 'to, then take the best care of them, and feed liberally. The most profitable pork we have ever made, was from young pigs which had been well cared for through the previous winter, and the next summer fattened on clover [pasture.

### A DOG STORY.

Some years ago, in the northern part of New England, Farmer Adams bought a drove of sheep from Farmer Scott.

" I need some one to help me drive these sheep home," said Adams, "for the road is long, and winds over the mountains and through the woods."

"There is nobody here to go with you; but you may have one of my shepherd dogs," replied Scott. "When you get home give him a good breakfast and tell him to go back and he will find the way all right."

The sheep were all turned into the pasture, at the end of the journey; but the dog had been so efficient that Farmer Adams thought he would try to keep him. Therefore he was chained, and only allowed freedom enough for exercise. After feeding and petting him for a week, that he might become wonted to the place, one evening his chain was loosed to allow him to take a run. At eight o'clock they called him to be fied up for the night, but no dog appeared.

About a week afterward a letter from Mr. Scott stated that the dog had returned home bringing all the sheep. He had evidently gone to the pasture, gathered the sheep together and driven them back to their former home.

Moral. Do not try to steal a dog for you may lose your sheep.

### DRESSING SHEEP.

Many farmers are deterred from the use of mutton on their tables from the woodly taste of the meat when killed at home. The reason of this is almost wholly in the manner of dressing. To obviate this all that is necessary is the exercise of care. Allow the sheep or mmb no food for twenty-four hours before slaughter, but allow all the water it wants. Just at nightfall, having everything prepared, seize the animal, hang up by the hind legs, cut the throat, being sure to sever all the arteries of the neck. As soon as dead, disembowel at once and then skin quickly and without allowing the wool to touch the flesh. Spread the quarters to cool the carcase as quickly as possible, hang in a cool, sweet place, and you will not be troubled with woolly-tasting mutton.

### POLAND-CHINA.

At the National Convention of Swine Breeders, at Indianapolis, Nov., 1572, the following characteristics were decided upon as determining purity

"The best specimens have good length, short legs, broad, straight backs, deep sides, flanking well down on the leg, very broad, full square hams and shoulders, dropping cars, short heads, wide between the eyes, of spotted or dark colour; are hardy, vigorous, and prolific, and when fat are perfect models all over, pre-eminently combining the excellencies of both large and small breeds."

Most barnyards are larger than they need to be, and the consequent scattering of manure make it much more difficult to save. Early in the fall the entire yard should be covered with straw to the depth of a foot or more, to absorb the solid and liquid excrement that would be wasted. If the barnyard is too large for this a advocating having young pigs in the autumn, but | portion should be fenced off and the stock kept

### BEES AND POULTRY.

IS POULTRY KEEPING PROFITABLE OR NOT?

FOR THE RUBAL CANADIAN.

The above question has often been asked by a great many amateurs and others, and my answer would be, Yes, and at the same time I will try and prove to the readers of your valuable journal the way it is profitable, and how hens should be kept to make them so.

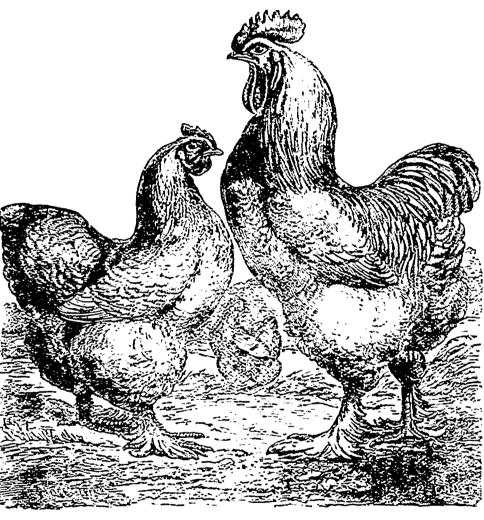
In the first place, we will take their residence, in which they spend more than half their time. It is very essential to see that they are provided in proper proportions to the size and number of the fowls. Pure air is required and shelter from it would face the south, so the rays of the sun

to exaggerate the influence of this agent in securing and establishing the health of the flock. The list of diseases caused from the neglect of this precaution is nearly as long as the whole list of those to which poultry are liable.

The site must be dry: if the house is not kept perfectly dry it will be impossible to secure a proper degree of cleanliness, and the utmost cleanliness must be carried out, and by giving all these things strict attention it will be one good step to poultry being profitable. The next thing is to see that your house is werm in the winter time, when your fowls have to be confined in it, for that is the time you want them to lay, as eggs are a good price. I do not approve of warming a house by a stove, it is neither beneficial nor profitable. In the month of October I look to my houses and see that they are fixed comfortable for the winter. In the first place, they are all double-bearded and filled in between with saw-dust. I consider saw-dust the best, as the turpentine

free from vermin which fowls are subject to: and another thing, rats or mice cannot build | in it, for as soon as they make a hole the saw-dust red pepper in, as it warms the fowls and makes runs down into it and prevents them. Now, after them feel better. Give them a cabbage now and you have this all done and battened outside, it is well to make a shutter that shuts over the window, so, on cold frosty nights you can shut this and keep all the cold and frost out, then, in the morning you can open this and let the rays of the sun in. Of course, it is well to have a small ventilator at the top, to let out the bad air, and when this is all done, you have a good winter henhouse, and with the proper number of fowls and properly fed you cannot but help to make them pay, even if you sell the eggs for table use and not to breeders at fancy prices. Now, for a cock and five hens, a house of five feet square would be large enough, and if you have more, then have your houses larger in proportion to your stock, but do not keep over fifteen or twenty fowls in one house if you wish to make them pay. The next thing is the feeding and caring for them, different of nature, to gather up the remnants "that

dish of boiled potato peelings and refuse from the of honey gathered from wheat stubble. house, mixed up with shorts; I do not make it when it is properly mixed up it will be middling straw where it was cut; in some instances the dry and crumble; once or twice a week I cut up juice was so plentiful that a clear drop of juice some meat and put with it. This constitutes ran out of every stubble, and some filled the their breakfast, and at noon they have some upper joints and ran down the stubble. wheat screenings thrown in on the ground, which keeps them active and all the exercise they require. day's rations. Of course this food is varied some,



BRAHMAS.

times a good dish of fresh water, and in very cold weather it is well to take the chill off and put a then, tacked on the wall high enough so they can reach it, and have a dish of crushed oyster shells in the house at all times; and you will then say that keeping fowls is both pleasant and profit-CHARLES BONNICK.

Toronto, November.

### BEES ON A FARM.

We have often heard people say, "I mean to have some bees, and I meant to have had them long before this." Yet these people live, year after year, without them, while their fruit bloom is poorly fertilized and the nectar secreted in the flora of their fields and hedges is left to waste its sweetness.

Bees seem especially designed in the economy breeders have different ways and sometimes a nothing be lost." This was forcibly illustrated pounded up.

good many are successful. I prefer giving my the past season by the reports coming in from fowls for their winter's breakfast a nice warm different parts of the country of the large yields

When the wheat was cut, before the straw was too soft and mushy, but put in lots of shorts so fully ripened, a sweet juice cozed out of the

It is a very rare season indeed that bees canis covered with dry leaves, which makes the not secure enough honey from some source to fowls work to find the food in the leaves and support themselves. We have many times been despondent thinking that we would get no surplus, Then at night they have a handful of whole corn and have to feed our bees their winter store, before they go to roost, which finishes up their when, all at once, there would come a flood of nectar from some unlooked for source. A cool, wind and weather; and another important thing it does not do to feed fowls continually on the one | wet spring and summer will produce no honey, is, that your house should be so constructed that thing, as they will tire of it and it will not do although the bloom may be abundant, and yet it them so much good. You can change about with may be just the condition suitable to produce could shine in upon them, for it is hardly possible cracked corn, barley, whole wheat, buckwheat, or many honey yielding full flowers. During the

last autumn a large amount of surplus honey was gathered from the different varieties of smart-weed (Polyungom). This honey was beautifully white, and of a fine minty colour. These plants flourish on overlands and damp lands generally, although they are found abundantly in this locality, growing in corn fields, and where early potatoes have been raised.

Sweet corn is growing in favour as a honey plant. A sweet syrup is secreted in the axils of the leaves, near the stock, and bees gather pollen from the tassel.

It is surprising that farmers will go to town and buy miserable glucose syrup, when a heaven-born sweet syrup can be had at their doors, "not for the asking but for the taking."-Mrs. L. Harrison in Beekeepers' Magazine.

### POULTRY YARD NOTES.

SEE that the hen-house is put in good condition for the winter. When the roads are in a dry condition it will be a good time to secure dust and sand. The hens will find it a

in the pine saw-dust helps to keep the houses oats, and by all means have in your house at all luxury to wallow in on warm sunny days in winter and early spring.

> An excellent way to feed cabbage to poultry is to suspend a head within reach and allow them to peck at it when they will. By this method it is kept out of the dirt and is better relished by the fowls.

> POULTRY should have variety in food. Do not feed all corn, nor all fresh meat, nor all of anything, in fact, that is considered excellent. The proper way is to give a little of everything by turns that a fowl likes. Corn may be the principal food, but corn will ruin a flock in time. Still, starvation ruins a great many more flocks than too much corn does.

THE mineral elements of the eggs and their shells should not be forgotten. Pounded oyster shells will afford good material for making shell. Pounded bones will afford material for the bone elements of the eggs. The flat and soft bones may be readily pounded into pieces while fresh, and the larger and firmer ones may be burned or charred until made brittle, and then be easily

## CANADA WEST LAND AGENCY COMP'Y.

Those who have hitherto applied to this Company for copies of the FARM JOURNAL will notice the amalgamation which has taken place by which the JOURNAL becomes, in connection with the RURAL CANADIAN, a monthly publication. It will be the endeavour of the proprietors to extend the circulation still further, in Great Britain and the United States, so as to make it the most important medium of communication between these countries and our Dominion. Parties wishing to advertise lands for sale may obtain full information as to rates, etc., by addressing J. R. ADAMSON, Manager CANADA WEST LAND AGENCY COMPANY, 14 Adelaide Street East, Toronto.

#### BRANT COUNTY .- Onondaga Township.

742.—The "Un-playa Farm" is a magnificent property containing 200 acres, of which 19s are cleared and mostly free from stamps. Scarces are covered with time hardwhich less are cleared and mostly free from stumps. So acres are covered with tine hardwood bush. The seal ranges from sandy leans to clay, and is very productive. It is well tenced with beard, raids and trimmed stumps. The buildings comprise a solid roughoust brusse, 14 story, containing S or 2 rooms; 6 good frame barns, with other outbuildings. There are 2 orchards, one old and one young, both bearing. It is conveniently situated to school, church, post-office (1 m.k.) and railway station about 3 miles distant. Caledonia, where there are stations on the G. T. It and the N. C. N. W. R., is 7 miles distant. Brantford, the county town, 11 miles, and the City of Hamilton about 14 miles. Proc. \$12,500; solid and the following with interest at 6 root cont. The form is warn SU(A) cash, balance to sail the purchaser, with interest at 6 per cent. The farm is very well adapted for stock-rusing, the land tone; rolling, and hig Creek running through it, without, however, making any waste land. It is within 7 miles of "Low Fark Farm."

#### BRUCE COUNTY .- Carrick Township.

2524.—A particularly more farm of 115 series, about the cleared, some fine sugar bush ash, cedar, etc. The soil of a braticular beam, rolling and easily worked, watered by a spring creek and wells. Fonces are beard and rail. Log books, frame barn, good orchards containing Apple. Fear, it must and Cherry trees with grape vines and current bushes all bearing. On a gravel road close to Echool, Churches and Chifford market fown 21 miles. Price \$5,000, terms easy. This is a bargain.

### ELGIN COUNTY .- Malabide Township.

ELGIN COUNTY.—Malabide Township.

1445.—A splendid farm of 2 states, 175 of which are cleared, 14st free from stamps, 15 in fall which, 15 in meador. It seeded down, and 25 in bush, which affords good pasture; timber, eak, maple, and levels; but a sandy loans, gently rolling and easily worked; there is a spring and a creek, a well at the boars, and a cotern at the barn glood substituting; the feates are rat, leveld and time stampe; the Treiling spararse, on stone foundation, 21166, 281-895, with colar size of founds; the Treiling spararse, on stone foundation, 21166, 281-895, with colar size of founds; the Treiling stable and shed No. 1, 45241, stable and shed No. 2, 15243 frame granery, Therefore, 21266, 181-99, 21161, all its good to nit; \$ acre or chart, contaming this kinds of fruit—all bearing. The farm is \$ mile from grave road, and a school is on the letting; b, Preslyteriae, Melicolist, and Happist charrier; post and telegraph offices, and market form at Aylmer, 25 miles so the far line, it Will P.U., also at Jaffa; St. Thomas, 13 miles. Ince. Side of: 50000 cash, balance in 10 years, at 7 per cent. Owner group up farming. Will exchange to city from edge.

GREY COUNTY.—Aydenham Township.

2110.—A meet valuable property, 600 acres; 13 cleared, 125 meadow; timbered with

GREY COUNTY. -Sydenham Township.

2110.—A meet valuable property, 600 acrost: II cleared, 125 meadow; timbered with
Maple, Brick, Cherry, Colar and Fine, seel light city loans, rolling and easily worked;
watered by II springs and II creeks, extern in book kitchen; femored with straight cellar
rule; dwelling of frame, on store foundation, 16121, 15 storeys, containing 10 recome;
cellar, 16216; also a latter wood-shot; there is also a house for hired men—all in good
repair; exchard composed of a few fruit trees. Taxes amount to Sillots year, with 16
days' read work. School 15 miles, therefore I miles, Fest Office, Il-gran, 2 miles,
Telegraph Office I miles, and market town, Uwen Sound, 11 miles, on the T.G. & B.R.
Prior, \$11,000; \$1,000 down, halance to smit, at 6 per contains.

### HALIBURTON COUNTY.

We shot in the I-wiships of Franci, Poddy, Haronick, follow and Harbitta a large tract of land animirally adopted for stock raising. It is variencely well-watered, and mines even better grows and seed than the high priced lands in the front. As the price ranges from \$1 to \$1 per new, stock raising one \$100 an acre. In come, specific proceed to the formation of the following animals is reduced to a comparatively very small stam. Intending introduct would do will be impact these lands thereighly before buying elsewhere. Any practical man who understands his between can easily continue humself of the advantages of this distinct by personal impercation.

### HALTON COUNTY .- Nelson Township.

HALTON COUNTY.—Nelson Township.

17.6—That magnificent property known as "Limestone Hall," centaining 2:0 acres; 170 are cleared, menty all fire from stumps; 10 in permanent pasture, and 1/ meeted with beech and maple; soil, innestone hum, slightly rolling, more stony, well-watered; fonces reals; and at the freat pickets. The readence is a spiendid cut stone two-story business. 6-15-. Continuing about 14 recent; collar, 2-150; summer hitches and weel-shed. A large barn, with stabling was recently burned down, learning the stone foundation and reflect them has been partially robable and the stone foundation as still standing registred for building the remander. The ether buildings comprise a frame barn, 40220, a large frame sixting losses, with stabling measuredism, a stone smoke house, etc. There are I exchards, extend [1-more, and containing 100 trees all bearing, and nearly all grafted fruit in various stages of greath and all choose varieties. I retaine 14 miles from school, chards I justice, Lowerille Part. I moles, Junearmann et St. Annie Station on the 11 and S. W. Raibray 3 miles. Nation is more, city of Hamilton 15 miles. Discington 3 miles. Thus is one of the best stock farms in the country, and cannot be basicen for raising any had of cross. Price \$12,000, terms only with interest at 6 per cont. A fine spring crosk raise past the buildings.

HALDIMAND COHNTY—Caladania 100.

### HALDIMAND COUNTY .- Calcoonia Village.

The shipping facilities here are unsurpassed, the G.T.R., passing through the village, of while the Nic.N.W.R., gives access to the country north and south, and to the G.W.R., C.S.R., C.V.R., and T.G. & B.R. Price, \$4.500; terms casy. A dwelling house may be had adjoining the foundry at a moderate price. This foundry is celebrated for the manufacture of the Vibrator Threshing Machines, of which all the patterns are in stock, as are also horse powers, resping machines, ploughs, saw mill machinery, engines, and a large lot of gearing patterns, store patterns, straw-cutting box patterns, etc., etc.

### MUSKOKA DISTRICT .- Stephenson Township.

MUSKOKA DISTRICT.—Stephenson Township.

2136.—The "Norott Farm," containing 195 acres, 48 cleared, 49 meadow, 40 seeded down, 147 bush, no netry or stony land timber, hardwood, a few joine, plenty of cedar, spruce, etc., soil clay leam, relings: there is a creek, and a well is near the house; the farm is well dithed; the fences are cedar rule (new); log dwelling, 20x10, 14 storers, 1 roses and attice, small cellar, roofed with shingles, in very good repair, framebarn, 5:x33, on cedar posts, log stable and tolt, 24x15, both shingled, 3 years tuilt, and in first-class condition, government road, post office, schools, and store, 40° rods away, churches, tolgraph office, grist and saw mills, etc., 5 miles: market town, Bracebridge, 15 miles. Price, \$2,500; \$1,750 cash, balance to suit.

2127.—Adwing 215%, and is situate on the shores of Mary Lake, containing 212 acres-

Price, \$2,500, \$1,750 cash, balance to suit.

2137.—Adjoins 2150, and is situate on the abores of Mary Lake, containing 212 acres;
17. cleared, 15 meadow. 13 seeded down, 1911 !-msh; timber consists of hardwood and codar; soil, clay learn; 146 farm is hilly, with one or two flats of about 20 and 60 acres; draining is good; spring flore to house; fences are codar rails, few logs; all new. The dwfiling is frame, 24x2y and 16x16, 2 storys, 6 rooms, on stone foundation; cellar 24x-24c, kitchen 16x16, xweled with shingles; in good repair, built in 1851 22; stable is frame, 46x24, on stone builders, built in 1851; lean-to-wagon shad its larne, 16x16; lean-to-vering manure shed, 21x12; stable to hold 13 head of cattle, 4 horses, harness and 5 mary hims, all here; government load, 2 miles, churches, post office, etc., by water 2 miles, by rough miles. Time, \$5,844.

### NORFOLK COUNTY .- Charlesteville Township.

NORFOLK COUNTY.—Charlesteville Township.

2509.—Good farmed 100 acres, 90 chared and free from stamps, 35 in meaders, and 10 mooded with excellent pine and white oet; soil is sandy learn, colling and early weeked; fenced with rails, is watered by a creek, castern, and two wells, situated one at house and other at learn; dwelling is irrine, 25x30, roofed with singles, 1; stereys, 7 rooms; cellar and eatside hitchen, good lumber bank barn, 30x32, with own stabling underneath; also a shed, drive b—are, machine shed; with carpenter's and blacksmith risey, smake, and bee houses, own cribs, pig siy, poultry shed, etc.—all buildings in good repair; there is a very large or bard, ountaining 300 apple, 250 peach, 100 cherry, plum stid pear trees, and seene grape times, good reads; achood, 1 mile; English church, i miles, Nethediat 2, and Haptist, I mile many; post office, Gleashee, 1 mile; market town, Simoor, 8 miles, where are pest and telegraph offices, and station, on the GTR; also one at Helhi, 6 miles. Tree (which includes live and dead farming stock), \$1,00°, which is a bargain.

WET LINGTON COUNTY—Linther Township.

### WELLINGTON COUNTY.-Lutber Township.

WELLINGTON COUNTY.—Luther Township.

675.—A good farm of DM acres; 45 cleared, under cultivation and well fooced; balance, 125 acres; is excellent hardwood land, bearrily timbered with maple, beach, elm, bealeck and housewood, and 30 acres of Stat-class coder and valuable mixed timber; this is a particularly good lot; relis alightly to east and south from the centre; it is a corner core, the 13th concession read being in front, and the 13th side line running along the easterly limit of the let, rendering it easy of being divided into two farms of 100 acres each; good reads; choice neighbourhood; good rail feaces; 15 miles from Egerton post office, and one ratie from school-house; there is a splended new frame house, 3012, containing 7 r—ans, well finished; new frame hours, about 30140; log stables on the premises. Prios, 53,50°. Thus let is only separated by the read from the following one.

626.—Valuable farm of 100 acres; 20 of a dry, laxuriant heaver meadow in the northwest owner, through which flows a never falling crook; 40 acres more are burned and ready for clearing and feacing; and 35 of heavy standing hardwood bash on rising ground, extending along the exteriy and southerly heandary of the let; no warte land; at a small entirely that can be made a most valuable farm; welld make a very valuable stock or darry farm; good roads; no buildings. Prios, \$1,200, or 625 and 626 together, \$4,500.

WENTWORTH COUNTY.—Ancaster Township.

### WENTWORTH COUNTY.-Aucaster Township.

noon.—A splendid farm of about 125 acres, known as the "Oakridge Farm," of which 90 are cleared, and 30 free frees stamps; 30 m fall wheat, 25 meeden, and the same quantity seeded down, and 25 acres weeded with eak, chestant, vine, therry, etc., seel as sandy lears, relling, and watered by a spring and creek near the house and barn, where there are also wells, it is well fenced with packets, boards and rails; the dwelling house as brick, and watered to be a feathful with oally 19-etc. nise wells, it is well fenced with peckets, boards and rails; the dwelling house is brick, II,120, I story, on stone femidation, with cells, I'221, and kitchen, II,221, also a wing, I0,221; the herri is frame, II,220, with I sheds, in which are stables, II,222 and II,225, respectively, there is a wood shed, pog pen, hen house, so house, etc.; the taxes are \$35 per anomin, with I days' read werk; the ordered sowner is across, and contains 200 apple, II pear, 40 plane, II peach and 50 cherry trees, grapes and fruits of all kind—all bearing, it is within a mile of Ancaster village, where there is a school, churches of all denominations, telegraph offices, grist mill, femily, westlen factory, right factory, etc.; Hamilton is 8 miles, and Brantford 16 miles. Prior, \$10,500; half cash, and the belance to suit, with interest at 7 per cent.

### YORK COUNTY .- West York Township.

HALDIMAND COUNTY.—Caledonia Village.

457—That first-clear f-maky and mackine shop known as "Scott's Foundry," occur principle large brick benifing, 2] stoopy, the ground floor of which is filed with exponent a large brick benifing, 2] stoopy, the ground floor of which is filed with exponent a large brind and rul: the dwelling is frame or stone foundation of the not in stump recent and the upper flat is a pattern room. The foundry, with cupola, and powerful blast adjour, and further to the east is the point shop and store house for flatabel such a blackwith shop with 1 forger; planing mill, 30 horse power local telegraph offices, 2 miles distinct. Western R. station, i makes, and eaglier, and 31 horse power before, and all necessary shalting and mackinery for carrying recent, where is market, 6 miles. Price, \$39,000; } cash, balance in 3 years, with on a large banners. The lot overs ball an acre of ground, and is very centrally located.

J. R. ADAMSON, Manager "Canada West Land Agency Co.," 14 ADELAIDE STREET, BAST, TORONTO.

### Miscellancous.

REMOVE flower-pot stains from window sills by rubbing with tine wood ashes and rinse with clean water.

Do not cut lamp wicks, but trim them by wiping off with a scrap of paper.

ORDINARY newspapers are very impervious to cold. If apples are to be shaped during winter, line the learnes with two or three thicknesses of paper, and the apples will rarely freeze, if properly protected.

A VERY simple but often efficacious care for bunions is a positive of cold bread and-water at night, and in the morning rule with olive oil, and place a small piece of guttapercha tissue over the lunion to keep it moist.

CREAM CAKE WITHOUT EGO. cups of flour, three cups of sugar, one cups of butter, two cups of sour cream, three teaspaonfuls of saleratus dissolved in a little water, half grated nutricy, and a textwenful of esence of lemon.

A HANGOME cover for a sofa pillow is made by embodiering two strips of blue satin with pink roseleds and some time green foliage; alternate these strips with velves or plash of a contrasting colour; a dark crimson is particularly peetly with the blue.

DELICATE Sea 2. Itself a small expeditive in a little over a quart of milk. But antil it is so soft that it will pass through a sieve. Grate the needy blended parts of two beads of celery and half to the strained two: add to this one can strong her? theore, and strong beef stock, or that made from matten or weat may be used; it should be strained, and be clear and free from lumps when it is just in with the rice. Let thus bed until the celesy is tender. Season with a dash of expense proper, or a little entry powder, and plenty of salt.

and plenty of salt.

Cottain Printing. Three eggs, two capfule of julicensed sugar, four large teaspoonfule of julicensed sugar, four large teaspoonfule of four, and two teaspoonfule of laking possible. Work the 'enter to the lightest possible cream, leat the eggs separately, and must the judding the same as it directions for cake making. Take half at hom. This quantity will make two cakes of the proper size. There is no letter recipe than thes for this favourite possing. To be served bot with space. served bet with sauce.

A law size Prisoner. The popular res-edy, Hagyard's Vellow Oll, is med both internally and externally, for noise, pane, colds, croop, themsation, dealers, and dis-cases of an inflammatory nature.

eases of an inflammatory nature.

REZERFAST POSITES.—An excellent dish is made of six regre and three tablety-overfils of hum chapped very tore; leat the eggs, and after melting a lump of latter in the frying-pan drop the eggs into it and stir the human; the hum has of course liven cooked, either fries or balled; season with papper. This is now may to use up pieces of meat that are left from singer. A nore dish for breakfast or for ten is made of sweet potators heldel. Remove the sking, raisting potators through a course columber, make into fire enkey, dip into four and fry its hot butter. into fiver and fry in but butter.

THE BEST CONFINATION. The less com-THE RECT OPERICATION, "The less com-bination of Lioud elements, regulating, braith giving herbs, rows and larks enter in the Ric-kock Bitters a purely regetable remedy that cares diseases of the Lioud, liver and

Breat More to 1A Greek Valle 10 -- Nor BEEAR MOTERIAL VIERNA III Al.—Nor well together the police of a land three ounces of powerered sugar, more as moreover of grated feedul, any appropriate farming of apace or grated femous peel, and the whites of four eggs whished to a swift stow stirred lightly as at last; have a most dwell buttered, which is in more target shoot Handred at lightly as at last have a mon'd well bettered, sprinkle in it some tooly about Manched almosts, and lay here and thore a that size of cardied perf. Fat the mass ones the mould mad steam it with ener. For sugar to a thread height and power it over when the look is termed out of the mould. Serve it

without delay.

H. CHEREFFER'S WER-HITS AND MEASURES Two gills make a half past. Two puts make one quart. Four quarts make one gallons. Half a gallon to a quarter of a peck. Two gallons make one peck. Four gallons make half a loudel. Fight gallons make one loudel. About sait deeps of any thin liquid will fill a common-nect coaponer. Four tallespoon, or one half a gill, will fill a common-stated wineglass. Four wineglasses will fill a half pear measure, a common timiler, or a large coffee exp. Tea engagement, a raidespoonful of sait weight one counce.

WELL TO REMEMBER - A which is time NELL DY NEMEMBER.—A stitch in time saves nine. Seriocs results oft follow a neglect of constituted lowels and had blood. Berdock Blood litters regulate and purify the stomach, bowels, liver, kidneys and the blood. Talge it in time.

#### Loss and Gain.

CHAITER I.

"I was taken sick a year ago With blisan fever."

"My doctor pronounced me cared, but I got sick again, with terrible pains in my back and sides, and I got so had I Could not move!

shrutik !

I shrank!
From 228 lbs. to 120! I had been doctoring for my liver, but it did me no good. I did not expect to live more than three months. I began to use Hop Bitters. Directly my appetite returned, my pains left me, my entire system seemed renewed as it by magae, and after using several bottles. I am not only associated as a sovereign, but weigh more than I did before. To Hop Bitters I owe my life."

Publin, June 6, 3r. R. FITZPARED R.

CHAPTER II.

Mallen, Mass., Feb. 1, 17 m. Gendemen -suffered with attacks of sack brain he."

Neuralgia, female trouble, for years in the

No mediatine or distore outly give me relief care, until I used Hop latters.

"The first bettle
Nearly cared me:
The scood made me as well and strong as hern a child.

when a child,
"And I have been so to this day,"
My healand was an invalid for twenty

My historial was an invalid for twenty years with a serious
"Kidney, liver and unitary constaint,
"Pronounced by Booton's best physicians
"Incurable!"

Seven legiles of your latters cored him and

Seven totties to your sure.

I know of the
"Taves of eight persons."
In my neighboth-sol that have been saved
by your letters,
And many more are using them with great

Print and procedure are using about with great benefit.

They almost How E. D. Mark. H. Mark. How to that Som. Expose powered dur and aght; out too much wishout exercise, we'd too had without rea; doctor all the time; take all the wie nontenna advertised, and then you will make to know how for the far and, which is answered in three words.

Take Hop Esteers' which is answered in three words.

ENNone genome without a bank of green Hope on the what lake! I Som all the vier, presented that

ATM Note: promote without a banch of green Hope on the whole label. Note all the vice promotes study with "Hop " or "Hope" in their name.

HOLIDAY BOOK!

### WALKS ABOUT ZION.

BY REV. JOS. ELLIOT.

tra pages. Clash, whence i in paper, poreson. Manusian and addorm, free of postage, on correct

"Among good back for development or practical religious und remaindem which about 200% is reviewed brief, independing and processing and processing and processing and religious adjusted by the liver brief fundamental.

"Clear in Georgist, recept in registerium, and argument and apprais" Halgies Chromite

"There arisers are freel, purely resistantly pear-tical. He have as well insure on the comments pear-tical. He have as well insure on the comments as an are-amplicable exposuries of the Wood of their ari-well the gelt of navney much in look, which insurance, few woods. This is the characterists of trans ari-dresses which we made resisting remained to the changingle reside. We conference of our lines and thought beater. We conference of our lines and townsore, John Funce." Freelyleroom (Holyica)

Unneil I amount to the Trailer

IC. BLACKETT ROBINSON,





SICK

## HEAD

Is the bane of so many lives that here is where we make our great boats. Our palls once it where others do not.

Carter's Little Liver Palls are very small and very easy to take. One or two palls maken down. They are stratily very take and do not grips or purpe, but by them greatle action, place all who wise them. In violent discensis after for \$1. Sold by directed everywhere, or sent by mail.

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The calle disjutables of the London correc-positent of THE TIMES keeps its readers fully informed of what is going on its readers fully informed of what is going on its readers fully informed of what is going on it too public cal and social world of Europe.

cal and secal world of Europe.

In treating the public question of the day shiteraffy, NIE TMES more becaute vigicies in plans language. It is a Republican newspaper, but it from exercises the right of independent entiress, and when its party chosens names or makes until nominhas compensed they seed assesses and siacenty.

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### The Aural Canadian.

TORONTO, DECEMBER, 1884.

BEET ROOT SUGAR.

Our Ontario farmers are sometimes urged to engage in the cultivation of the sugar beet, and the example of France and Germany is referred to as showing the profitableness of this crop. In those countries sugar beets are sold to the factories at \$5.50 per ton, and there is no doubt but that, at this figure, they are profitable to the producer. But then there are other circumstances which must be considered before we can know what the ultimate profits are. In Germany the sugar companies have been organized by farmers, who divide the stock among themselves -each farmer binding himself to grow three and a half acres of beets for every share of stock he holds, and being subject to a fine if he fails. The mills buy the beets at about \$3.50 per ton, they pay a revenue tax to the Government of \$4 per ton, and the cost of manufacture is about \$2.50. This makes in all \$12 per ten, and the average product of sugar is about 225 pounds per tonthe total annual product of the country being 900,000 tons. To the German consumer the price of sugar is \$6 per hundredweight of 112 pounds, but to encourage expertate in the Government grants a subsidy in the form of a relate of the fax, and about three fourths of the product is exported. In the London market the price at present is \$2.50 per 112 pounds, which is \$3.50 per hundredweight less than the German consumer pays for it; yet it is affirmed that in Germany it does not pay the out of Induction. and that it cannot be made to pay until the price of the raw material is reduced. We do not understand what advantage it can be to the German consumer of sugar to pay \$3.50 per hundred. weight more than the British consumer; but so long as the German consents to a policy which yields such a result, to one else has any fault to find in particular, unless it be the producers of other countries who grow the best or came and manufacture the sugar without any aid from Government. So far as Ontano is ecacemed it would be rash to engage in sugar-beet cultivation without knowing more about it than we can learn from Germany or France.

### INSTRUCTION IN BUTTER MAKING.

It is pretty generally known that an attempt has been made this year to teach Lutter-making under the creamery system at the Agricultural College, at tittelpli. The results of the experiment are not yet known, and probably will not be until the next annual report of the institution is published. We do not think, however, that a very sauguine account should be lasked forpartly because we have only a beginning of the creamery there, but chiefly because it has only been in operation for two months in the fail of the year. In that short time it can scarcely be expected that the students should show much interest in the work, especially as many of them are attending the College for the first time and have not yet got a therough run of the work which they are called upon to do. Then much delends on the patronage given to the creamery by farmers of the neighbourhood; also upon the relations which the price of cream has to the price of butter product, and generally as to class than those ordinarily seen at such schools, tario, but more particularly in butter-making.

economy in the management. Another season will be necessary in order to determine measurably as to the success or failure of this department of the College course of instruction, and we do not doubt but that the manager and instructor has already learned some useful practical lessons from his short experience of this year. To the students of the College a thorough knowledge of the processes of butter-making in a well conducted creamery is of great value, and if the course of instruction is thorough, it is a matter of secondary consequence that the College creamcry should pay running expenses. At the same time it must be considered that the cost of operating is in itself a thing to be closely considered, for if the business be carried on at a loss there is very little to encourage non to establish or patronize creameries as a commercial enterprise.

Meanwhile it is worth looking abroad to see what is being done by other peoples with a view to improve and develop their dairying industry.

Much information on this subject is to be found in a recent report of a commission appointed by the British Government to enquire into and report upon technical instruction, bein in Europe and America. The portion of this report which deals with agriculture was prepared by Mr. H. M. Jenkins, Secretary of the Royal Agricultural Society of England, and contains much that is valuable as to systems and their results.

We learn from Mr. Jenkins' report that in Germany there are eighteen schools where special instruction is given in the theory and practice of dairying. The most celebrated of these is at liziter, in Mecklinberg-Scheverin, which owes its existence to the liberality of Count Schlieffen. This noblemen provides the school building, the Louse and garden for the director, and everything that may be required for experimental and teaching purposes; in addition, the governing body of the Puchy gives now a subvention of £325 a year. The course of instruction extends over six months and is given only to young men, six at a time. They pay 27 10s for instruction, and board and lodging at the farm for the full term, and they are made to work in the dairy like paid labourers. Besides these there are about twenty-five other students who provide their own board and lodging in a neighbouring village, and who pay 25s for a mouth's instruction in the class-room. These students are not required to perform manual labour. The dairy instructor gives demonstrations in all matters of a practical nature, and theoretical instruction is given daily in a lecture of one hour's duration, by the director of the establishment. Great attention is paid to bolkeeping, and to the principles of Lucding and feeding as well as of dairying, and throughout Germany this school is regarded as by far the best of its kind.

In a similar school at Heinrichethal, in Saxony, ten or twelve young women are taught the theory and practice of Lutter and cheese making. These pupils must be at hast sixteen years of age, and they jay 25 for one month's instruction, board and lodging, or 29 for three months. The farm consists of 150 acres of arable land, grass and wood, and twenty-two milels cows of the Datch or Helstein breed, are kept upon it. The coarse of practical instruction embraces the following:

- 1. Technical management of a dairy, including bookkerping.
- 2. Feeding and management of cows, and fattening culves and pigs.
- 3. Instruction in cooking and general housekeeping.
- 4. Management I roultry, according to their
  - 5. Management of the kitchen garden.

They are mostly daughters of proprietor-farmers of moderate acreage, but some are the daughters of large farmers; while a few, Mr. Jenkius says. come from the towns, being about to marry young farmers, and therefore required to learn everything connected with the management of a farm house.

Another school is at Gross Heinstedt, and while owned by a farmer it was organized by a bonus of £225 granted by the Royal Agricultural Society of Hanover, which society also votes a varying sum yearly toward its maintenance. Under an arrangement made by the society, six pupils are furnished with board, lodging and instruction for a year, at the rate of £18 each. These pupils give their services in the dairy until one o'clock, after which they are taught housekeeping. Servant girls are kept to milk the cows and do other heavy work of the dairy; but if the pupils do not know how to perform any description of dairy work they are taught it care-

These three schools may be taken as a fair type of the German dairy schools, and enough has been said to give an idea of the system upon which they are conducted.

In the agricultural school at Fune, in Denmark, a department was established in 1873 with the object of giving special instruction in darrying to girls. The course extends through the months of September and October, and during that period special instruction is given by lectures and practical work, both as regards milking and dairy work, and keeping accounts. The girls are divided into iwo classes, one receiving instruction in dairy work in the forenoon and the other at the same time being taught account keeping, writing and female handiwork generally. In the afternoons and evenings both classes attend lectures on history. The rate per menth is about £2, and books and all kinds of materials required in the schools are obtained from the teachers; and the only revenue of the school in addition to the fees of pupils and the products of a small farm, is a grant of £104, contributed in part by the State, and in part by the commune.

There also prevails in Henmark a system of apprenticeship for the sons of small farmers; but perhaps the system under which the largest resalts are obtained is that in which every large dairy farm in the country is a practical school of dairying for farmers' daughters. These young women remain on the farm for one or two years, and in exchange for instruction, beard, ledging, and sometimes a payment of £2 or £3 a year they do all but the heaviest work of the dairy. As a rule there are not more than three or four pupils in a dairy at once, but Mr. Jenkius mentions an exceptional case where a dozen girls are in attendanse as working pupils, and remain for various periods extending from six weeks to two years. Each pupil has five cows allotted to her in rotation and the results of each milking are carefully noted, the produce of each cow being entered scharately morning and evening with the name of the milker. This is one of the most fundamental, and at the same time one of the meet neglected, of the operations connected with dairy farming; and it is observed that the knowledge that results are booked preduces a spirit of emulation amongst the girls which gives far better results than any system of supervision. On some of the very large farms, where the head of the dairy is a man, the pupils are also men; but as a rule dairying in Denmark is in the han is of the women.

Now it appears to us that there is much to be learned from the systems which prevail in Germany and Denmark; not perhaps in cheese-mak-The pupils of this school belong to a higher ling, for that industry is well understood in OnIt is doubtless a good thing to have a school under Government patronage to give instruction in butter-making; but the number who require instruction is very large, and we think that any skilful dairyman who would make known his willingness to take pupils need never be at a loss for applicants. A good dairy school in each township, which would give thorough instruction in butter-making to four or five pupils every year, would speedily effect a revolution in the butter industry of the Province.

### FALL SHOWS AND OTHER MATTERS.

FOR THE RUNAL CANADIAN.

For the past dozen years I have been in the habit of attending a number of the exhibitions held throughout the province,—from the Provincial, and of late the Mammoth Industrial, to the smaller but equally useful county and township fairs, and have a had good opportunity of seeing the improvements that have taken place in the agricultural world in that time. The strides forward in the last decade have been marvellous, and it seems almost impossible to credit the evidence of one's senses. Ten years ago the really good cattle were confined to the provincial and a few of the best county shows, but now there is Lardly a township society that offers a grade bull; that folly has disappeared, and the splendil thoroughbreds that are to be found in most neighbourhoods have left their impress on the fine young stock that is taking the place of the old-fashioned kind. The sheep pens, too, are filled with a superior class of animals; and fat, comfortable-looking pigs replace the races of former days. The wonderfully constructed quilts which used to be so prominent a feature are succeeded by fancy needle-work, which shows an appreciation of art and hearty; and the specimens of fruit and vegetables, with the fact that a large share of the best prizes go to farmers, show that many of the tillers of the soil appreciate the good things of this life, and are not disposed to confine themselves to a meat and potato diet.

A LITTLE while ago I visited a township show in Eastern Untario, near the Quebec boundary. It was, I believe, the second ever held in the place, and the people had hardly got into the way of it. The stock was poor enough, probably a dozen years behind the west, but I saw a fine Percheron stallion and a fine Durham bull-evidences that there were some farmers of enterprise. The emulation that this show will create must lead to good results, and by the raising of good cattle instrad of scrubs, the value of every farm in the neighbourhood will be increased Let z little.

Ar the Stratford Show I saw some very fine Herefords and Durhams, imported this season by Mr. Joseph Sharman and Mr. Thomas Ballantype, M.P.P. There gentlems n are wealthy enough to be able to invest liberally in good stock, and both having sons who had specially distinguished themselves in the stack classes at the Model Farm, wisely sent them to the old country to make the purchases. These lads, for neither had turned twenty years, visited the best herds and picked out animals which certainly did credit to their judgment. The old stock-men in Britain wondered that such slips of boys should be so wise about cattle, but were ferced to admit that they did know their business—the way in which they picked out the best animals showing that the Agricultural College is a good place to learn practically the value of cattle, and that they thoroughly understood the lessons they had re-

Tue fruit and vegetables this year were wonder.

fully tine—at the little shows as well as the big ones. People have opened their eyes at the roots sent from Manitoba, but at most of the shows there were plenty of potatoes at any rate equal to any from the North-West. There seems to be quite an effort now-a-days to procure new kinds of potatoes, and the offering of prizes for collections has stimulated the introduction of valuable varieties.

Every year sees a change for the better in fruit-apples are especially a Canadian fruit, and nowhere in the world can better be grown. The demand from foreign countries has caused the planting of hard "anter fruit, and Northern Spys; Spitzenbergs, buldwins, etc., of the finest quality are becoming commoner than they were. The quantity of apples shipped to the North-West this year has been immense, and as it must be years before fine orchards can be brought into bearing there, if indeed the climate will ever permit fruit-growing, there will always be an outlet for unlimited quantities of the Untario products. No acres on the farm pay so well as those moler orchard, if the trees are properly looked after.

The Toronto Industrial Managers have done well in banishing fakirs, gamblers and other disreputable persons from their grounds, and it is a lity they hadn't let the liquor business alone; but their experience this year on that question will probably be useful to them hereafter. No other show, so far as I am aware, has had backtone enough to forego the revenue arising from licensing these people, and the number that infast the enclosures is a positive disgrace. Gambling is carried on unblushingly, and it is not at all uncommon, in driving up to an hotel at a small hamlet, when a township fair is in progress, to find a wheel of fortune whirling away in the sittingroom or in the stable, and later on in the fair grounds, the directors congratulating themselves on getting a few dollars out of the proprietors. Surely the legitimate attractions ought to be enough, and the side-shows, etc., be allowed to travel with the circus, where they belong.

I work to very serry to see the county and towaship shows done away with. It is the fashion to rail at them and call the prize lists, which fill the pages of the papers during September and October, "pernimous literature," but they have their mission just as well as the big shows, and are educational institutions whose value is not appreciated near as fully as it should

### CANADA SHORTHORN HERD-BOOK.

Below we give a list of transfers of thorough breds reported up to October 20, 1884. In the following list the person first named is the seller and the second the bayer.

Eyes [7317], 23742, John Pipe, Guelph: Henry Hall, Weisenburg.

B. Hoyal Cuarlie [12374], by Duncan [8335], Wm. Hedley, Dancrief, John O'Biren, London

B. Hom Pedr [12070], by Marquis [8647], John ] Marshall, Thoury East; John B. Hughson, Ourre.

H. Brunette [Vol. 9], by Essa D ctor [8546] Francis Mills. Schomberg; John Winters, Lloydtown.

H. Julia [Vol. 9], by Prince Arthur [16313]. Joseph J. Kitely, Rand Head; John Winters, Lloydiown.

13. Itake of Carleton [18382], by Sir Leonard [105:81], [45613] —Thos Graham, Bell's Corners; Stephen Tucker, Clarence.

C. Summer Queen [Vol. 9], by Duke of York Mt. Elgin.

[3111] - Henry Doughty, Lindsay; Wm. Hunter, Cameron,

B. Young Hector of St. Vincent [12388], by Hector [8687] Samuel Short, Meaford; Wm. Knox, Sault Ste. Marie, Mich.

B. Prince of Drumquin [12380] by Captain Brant [8209] -Robt. Howes, Trafalgar; John Campbell, Drumquin.

C. Rose of Driniquin (Vol. 9) by Captain Brant [8200] -Robt. Howes, Trafalgar; Wm. Howes, Trafalgar.

C. Princess Lonice (Vol. 9), by Captain Brant [8200] Robt. Howes, Trafalgar; David Featherstone, Drumquin.

B. Halton Hero [12388], by Captain Brant [8206]-Robt. Howes, Tratalgar ; G. Greener, Oakville.

H. Spring Morn (Vol. 9), by Earl of Rugby 12000 - J. S. Williams, Knowlton, Que.; Horace Green, Bolton, Que.

H. Lady May (Vol. 9), by Earl of Stafford [11432] - C. D. Baneroff, Knowlton, Que.; Horace Green, Bolton, Que.

H. Lady Maul(Vol. 9), by Earl of Stafford [11432] - C. D. Bancroff, Knowlton, Que.; Horace Green, Bolton, Que.

B. Earl of Rugby [12300], by Earl of Stafford 11432]-C. D. Bancroff, Knowlton, Que.; J. S. Williams, Knowlton, Que.

H. Mary M (Vol. 9), by Princess Lovely's Duke [9179]—Wm. Bennington, Maple Ledge; John M. Stevenson, Sylvan.

H. Lucy(Vol. 5), by Sir William Temple [6324]-James Wilson, Glammis; Peter Robb,

C. 2nd Fair Maid of Atha (Vol. 2), by Proud Dake [2079]-Wm. Mills, Prougham; Wm. Grainger, Londestoro'.

B. Prince of Strathallan [12391], by Blooming Mayflower S153]-John Miller, Brougham; Wm. Grainger, Londesbere'.

B. Gen., Graham [12306], by Jacob Bright [8741]-H. S. Merewether, Armstrong's Mills; A. McConnell, Saugeen.

H. Agatha's Duchess (Vol. 9), by Mazurka Duke [5703] -Lt. Col.C. A. O. Malley, Wardsville; E. J. Yorke, Wardsville.

D. Yorke's Ready Money 12419], by Fancy Duke [7072] - E. J. Yorke, Wardsville; Rubert Mickleberough, Sutherland.

B. Dake of Holland [12407], by Royal Butterfly [11114] - Michael Perdue, Campbell's Cross; Wm. Foster, Massic.

It. 4th Dake of Middlessex [12408], by 3rd Duke of Kolvin Grove [10886] Peter Tele, Mt. Bridges; IL Williams, Christing,

B. Roan Prince [12400.] by Durdem [11603]-Alex. Wakins, Baisam; Thos. Fields, Enfield. H. Crimson Bad (Vol. to, by 2nd Prince of

Springwood [5978 - Wm. Heron & Son, Ash-

by the person first named is the seller of the second the bayer.

B. Dake of Weisenburg [12373], by Lord Bright Speciable; John A. Farrow, Armstrong M. Specialles Oxford [9274]—Jas. Pinkerton, Schomberg; Henry M. Schomberg; Henry

Atkinson, Orangeville.

F. Young Echyse [12410], by 6th Dake of Thorndale [2505]—John S. & Win. Taylor, Evelyn: Szmuel McKenzie, Franston.

B. Young Dixie [12415], by Garland's Chap-lett [3892]—Robt. Galbraith, Rerwood; Jabez

Barber, Kerwood. C. Lady Red (Vol. 9), by Monitor [5710] — Hy. Pixen, Leith; Brigham Wilkinson, Owen Sound.

B. Beauty's Pake of Logan [12417], by B. auty's Pak-[11796]—Thos. Worden, Mitchell;

Thes. D. Ryan, Dablin.
H. Resy Mand (Vol. 9), by Young Warlaby [12123]—Win. Hewitt, Listowel; Isaac Raviel, Trowbridge

B. Red Wellington [12424], by Brampton Hero 6595 J-Joseph Thompson, Salem, C. E. Lane,

### GARDEN AND ORCHARD.

FOR THE RURAL CANADIAN. INSECT DEPREDATIONS IN A CANA-DIAN GARDEN.

BY ANNIE L. JACK.

The class Insecta (inseco, I cut into) is one of the most important and interesting of the articulate animals, and a subject for investigation that cannot be ignored, on account of the vast amount of damage done to vegetation in all stages of growth. Although composed of twelve orders, the chief depredators are included in the following four: Hemiptera, Hymenoptera, Colcoptera, and Lepedoptera. It is not merely for the sake of a scientific or physiological knowledge, that this department of zoology should be more widely studied. but a knowledge of the structure, habits, transformations and food of insects is necessary in order to distinguish friends from enemies.

The most destructive Hymenoptera are rose bush, and pear treeslugs, saw flies in variety, and joint-worms. In Hemipters we have plant and bark lice, vine-hoppers and thrips, squash bugs and other plant bugs. But the Colcoptera and Lepidoptera are a formidable array of enemies. often very beautiful in form and variety, but in the larval state eating incessantly and voraciously. The first of these, the Coleoptera, (Gr koleos, a sheath; and pteron, a wing) is often regarded by entomologists as the typical division of insects. These insects are of solid structure, distinct in their articulations, and covered with hard external integument. Foremost as a deprodator I should place the May Beetle, included in the genus Melolonthia. Every one is familiar with this brown, horny beetle, which, as evening approaches, makes such a buzzing among the branches of fruit trees, continuing on the wing until midnight. Our insect hunters have often during the season of the beetle's greatest activity brought in to be destroyed, three quarts of these insects, caught by the strategem of a net, or tree jarring in a single evening. This is of some importance when we know that a single female deposits 200 eggs and that the whitish grub which is listched in fourteen days, lives for a period of from three to five years destroying acres of grain, and feeding on the roots of the strawberry and other tender plants. Fortunately they in turn are a delicate meal for the weasel, rat, common-fowl and bat, while crows have been observed to follow the plow in an infested field, noisily enjoying a feast. The beetle most destructive to fruit trees is the saperda bruttata, while the larva of a small weevil or curculio by its destruction of the plum crop recalls Massey's lines that-

## "Many a thesem of the spring, Will never come to fruit."

Another insect that proves injurious to the season's crop of grapes is Haltica Chalybea, which feeds on the buds and leaves. The dreaded potato bettle, though seen for the last six years, has not proved destructive. The order Lepidoptera (Gr. lepis, a scale; pteron, a wing) is divided into three groups. Papilions, (butterflies); Sphinges (hawk-moths), and Phalacuae (nocturnal moths), over 3,000 Lepidoptera have been indentified by entomologists on this continent and each species is distinguished by some modification of structure adapted to itself. There is hardly a plant in an ordinary garden free from the ravages of these insects in the larval state, of the genus Papilio, the turnus feeds upon fruit leaves, troiles on the lilac, and the beautiful esteries, with its rich black velvet wings, and spots of yellow and blue, was once a caterpillar two and a half inches long, feeding on the carrot, parsley and celery. The Pierisrapae and Protadice destroy | brief article it is impossible to mention many | liable nurserymen first for their catalogues.

the cabbage family, leaving only the skeleton. It was imported from England to Quebec in straw used for packing, and commenced its depredations there three years previous to the wholesale destruction of the New York cabbage fields. The Oleriacia, delicate and purely white, feeds on the radish and turnip, and has lately taken a fancy to a meal of the mignonette. The colius family feed on the hop and clover. It is sulphur yellow, bordered with black, and a perfect black butterfly found on our grounds some seasons ago created quite a furore among entomologists here. The Nymphalca prefer the honeysuckle, while Danias, Argynis, Aphrodite, Myrina and Bellona are enemies to the spring violet. While I class as friends many that feed on weeds, there are some that like variety, and the Pyrannus will leave a thistle for a dinner of hollyhock or sunflower, to gratify its resthetic taste. The Grapta delights in elm, hop and grape, as do some of the skipper family, of the Sphinges only the family Agerian are to be dreaded. These are the squash vineandgrape root borers which lay eggs in the pith of the plant and burrow down, causing it to wither. Of the nocturnal moths there are many injurious to vegetable life. This group is the largest and the moths differ greatly in size, colour and beauty. When resting the upper wings cover the lower, presenting a diversity of form. Some of the females are wingless and only live long enough to deposit their eggs, which, by a wise provision of nature they invariably place on or near the food best suited for the larve. By this means those bent on their extermination can readily discover them. In instance of this the Amphidasys that feed upon the gooseberry, deposits its eggs along the under ribs of the leaves as soon as they unfold. By picking off these leaves before the larve hatch, it is quite possible to keep the bushes free from this little gray-winged enemy. Of the same family is the Angerona, so baneful to the life of the strawberry plant, and the canker worm moth which makes its appearance where apple trees are found, and, in speaking of fruit trees I may here mention the Clinicampa Americana and Destria has proved so destructive in this locality the last few years that the orchards and forests that beautify the mountain side of Mount Royal present the appearance of having been destroyed by fire. During this period on our own fruitfarm, of nearly 2,000 trees, we suffered little damage by the simple expedient of paying children a cent per dozen for collecting the rings during the winter, when they are easily seen upon the terminal shoots, and can be reached by the aid of long-handled shears. In this way, by actual count, we have in one season collected ten thousand rings, each of which contained from three to five hundred eggs. Following this example, neighbouring fruit-growers have kept their fruit trees clear of this dreaded pest, and can reap a harvest, while two years' neglect, results in the death of the tree.

The Emperor Cecropia is the largest of Canadian moths, expanding six and a half inches. The cocoon, which we invariably find fastened longitudinally to a plum twig, is about three and a half inches long, and when the motor emerges from its chrysalis form it is "a thing of beauty" although not so famed for delicacy of tint and texture as the Empress Luna. This pretty creature lives only on the hickory as a depredator, and can hardly be called an enemy. It is pale green with a purple border, and on each wing an eye-like spot, transparent in the centre and encircled by a ring of yellow and black. The Agretia moths supply the cut worms which conceal themselves all day and creep forth at night to feed on newly-set or tender grown plants. But in this

beautiful depredators that we meet in daily summer warfare, and I will only suggest that in every school and every home, the youth of to-day who are to be bye-and-bye, the pride of the twentieth century, be taught to search for, and admire, and understand, the wonders of the insect world-

And how the ant constructs its wondrous hill, And how the locust wings its hungry flight, How horny beetles nature's ways fulfil, While Luna reigns fair Empress moth of night.

### PRUNING APPLE TREES.

Pruning apple trees is a necessary evil, and should be avoided as far as practicable. If the tree from the first has been properly looked after, very little pruning will ever be required. Such branches or buds as would give the tree an undesirable shape, or which would cross other branches or crowd other branches, should be removed. Frequent inspection during the growing season is required in order that those buds or young shoots which would interfere with the form desired, may be removed with the thumb and finger. In this way the removal of large limbs in subsequent years will be avoided, and the trees saved from the danger attending such removal. In regard to the matter of pruning, Prof. Mayn. . a a few years since very sensibly remarked: "It is very doubtful if we can improve upon nature's method in this matter. A tree growing out in the open field, fully exposed to the sunlight and air, naturally takes a fine form, and, if in good soil, grows vigorously, and bears abundantly. Most of our orchards are planted too close in the first place; then, to let in the sunlight and air, large limbs are cut out from the centre, and the wounds made left exposed, decaying in a few years. This practice of cutting out the central branches to let in the light is all wrong. Branches grow best in the centre of the tree, because here they find the most congenial shelter from the sun's rays. Cut away the branches with their foliage which shelter these roots, and they cease to grow, and the long bare branches exposed to the scorching sun during the summer, and continued freezing and thawing in winter, becomes much injured. If the time now expended in annual pruning were devoted to the care and attention of the soil, our orchards would be much more healthy and productive. The practice of removing nearly all of the top of the tree when it is grafted, leaving the limbs exposed to the hot sun, is a very hazardous pro-ceeding, and is frequently followed by the loss Very few limbs should be removed of the tree. from a tree in any one season."

BURY the bones that accumulate about the premises, and bury them at the roots of the grape vines. Throw in an occasional dead cat.

In making selections of apples for next spring's planting, don't be too ambitious as to varieties. Three or four varieties, (if they are the right ones,) will about fill the bill.

Nine out of every ten apple trees in America are being slowly starved to death. In most cases it is notash that is needed, say 200 pounds of muriate of potash to the acre spread broad-cast.

KEEP the vegetable and small fruit garden separate. Or at any rate have the fruit and perennials, like rhubarb and asparagus, on one side and the vegetables on the other. Let the whole plot be a run for the chickens from November to March.

Probably you should set out a few additional fruit trees next spring. Ride out among the neighbours who want to do the same thing, make up a little club for the purpose, and send on your order, in one lot, to some reliable nurseryman. May be you had better send to several of the re-

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### THE DAIRY.

CARE OF MILK COWS IN WINTER.

From the care that many farmers bestow upon their milk cows during winter they are an expense rather than a profit. In the summer, when herbage is fresh and abundant, cows can supply themselves with material for milk production, but m the winter they have to depend on the skill of their owners for this material, which is often illy provided.

I have heard farmers say they had to keep three or four cows to get milk and butter enough to do their family, when to follow them to feed these cows you would find them sheltered by the fence or the side of their barn, shaking with cold, icicles hanging all over their body, and if sheltered she had been forced to lie in her own fitth all night. Her feed consisted of a few rotten nubbins of corn and an armful of husks or a little fodder. This they claimed was all they could afford to give, and even at this it looked as if they would run out before spring.

To winter a milk cow at a profit the first requirement is a warm dry stable, in which there is abundant ventilation, and where perfect cleanlyness can be observed; for comfort is as necessary to profitable milking as feed or water. It is interesting to trace the ill effects of bad keeping upon the milk-pail, and how neglect leads to diminished profits. The skin is a very important secretory organ. Generally it is considered solely as the hide which covers and protects the flesh and bones. But there is continually passing through the numberless pores of the skin a vast quantity of watery vapour mingled with much effete animal matter, which escapes with the vapour that passes off as insensible perspiration. For the healthful action of the skin it should be kept clean and well carded. The feed should be untritious, easily digested and abundant. As milk contains a large proportion of albuminoids and phosphates, any food that contains enough of these substances to meet the demand for milk in addition to what is required to supply the wastes of the body, will keep up the flow of milk. If the food does not contain enough of these substances or a sufficient quantity is not given, the flow of milk will be diminished, or else the cow must use her own tissues for its production. In either case the farmer is wintering at a loss. There is one fact that the farmer should remember, that the cow cannot give milk unless the raw material be given her to manufacture it from; he also should remember that heat and wastes of the body must be kept up. But the farmer has been taught through the papers so much that the cow was an engine, so to speak, that required constant care, good fuel to keep it in good running order, that many of them are like the little boy said he was when told to go and wash his face, if he did wash his face it would not stay washed. So it is if they are told they won't stay told.

But we have seen that heat has to be kept up in the body by feed or through good housing; and the importance of a clean healthy skin; that the farmer should provide for his cows warm, dry quarters, that he may save food, also provide nice, clean straw for bedding, that his cows may be warm and clean.

The feed for milk cows should consist of nice, well-cured hay; well-cured fodder is a good feed for milk cows; clover hay is an excellent feed. Sweet corn fodder sown in drills three feet apart and with stalks six inches apart, grown to maturity and carefully cured, will make more milk than an equal weight of fair clover hay.

Sorghum fodder, if well cured, makes a good feed. Some farmers object to it and think it will several years with no serious effect, but on the contrary a good nutritions food. I have observed wheat bran to be one of the best feeds for milk cows. A gallon at each milking with a little salt mixed with it is fine to keep the flavour of milk. Salt of itself given at milking time will aid in keeping up the quantity of milk. Potatoes when chopped and mixed with meal add to the yield of milk and the quality produced by them is good as might be expected from the large proportion of starch they contain.

Cabbage furnishes another resource for milk not sufficiently appreciated by the average far-There are few vegetables that contain as much nutrition, pound for pound, as a cabbagehead. So rich a milk producer is cabbage that it pays to rai e this vegetable solely to feed to milk cow- Where cabbage is worth ten cents a head hisdairy stock (never exceeding two cows however,) leaves. Some may object to the flavour that cabbage imparts to milk, but feed in small quantities at first, and after milking.

Whatever food is given it is best to divide it comfort of the cow is interfered with. I have must be at ease in every respect. An uncomfort able cow or a wearied or frightened cow will not capacious, yet one bushel of loose hay or fodder, adopted it. or a half bushel of moist feed or roots at once is

A regular and ample supply of water is as necessary as the supply of food. Few farmers consider water to be food. The majority look upon it very differently, but it supplies an important part of the animal nutrition. It is said that seventy-five per cent, of the blood and flesh and ninety per cent. of the secretions consist of water. Every one of course considers water where they are pastured, but it will more than a necessity, but that it should be pure and not so pay in the increased product, and the manure when taken freely is not thought of. The health of the animal depends perhaps more upon the purity of the water consumed than upon the character of the food, because the water enters very rapidly into the circulation and carries with it any impurities which may be held in solution ; these at once affect the blood. Besides when an animal is not regularly and frequently watered a large quantity will be swallowed at times. If this quanity should be one-tenth part of her own weight and it given cold the reduction of temperature of the stomach is very great and a serious shock is given to the vitality which requires the consumption of extra food to restore.

If the farmers would study their best interests more they would see the great utility in feeding and watering abundantly and in a proper manner. There is more profit to be gained from two cows properly cared for than three cows with the care of two cows divided between them, besides there is a third more risk to run from disease and death. THOS. D. BAIRLY.

### THE FLY SEASON AND THE DAIRY,

The hard frests have already put an end to the annoyance of dairy stock by flies for this season. But it is timely to look at this subject at this time with a view to measures to be taken hereafter for saving the stock from the annoyance to which it is subjected from this source, and also saving the owner from the loss experienced, which is by no means inconsiderable in a herd of kill cows to cat it, but I have fed it to stock for milch cows. From the middle of July to the

first of October the flies are a great annoyance to live stock running at large. The more sensitive and delicately organized they are, the greater discomfort and torment they experience. No class of live stock is more sensitive to this torment than the milch cow, and none should be less exposed to it if her own comfort and the interests of her owner are to be taken into account. The demands upon her are large. Not only must she take food enough to supply the waste of her system and maintain her condition, but a liberal supply to be converted into milk, if her owner is to realize a profit from her. Now a cow cannot do her best, if, throughout the day she is tormented with flies, countless as the swarms that troubled old Pharonh, and besides they come at just the time when the pastures are the shortest. in the stable during the day, from morning to evening milking, giving a feed of green clover or fodder corn, and turning them out to grass at night. The stable is sufficiently darkened so that with at least three feeds. If large quantities of they suffer little or no annoyance nonmodel into the stomach the digestive and it is no small satisfaction to see them lying down and placidly chewing the cud, when cows in the pastures are tormented almost to distracobserved to get a good flow of milk that the cow tion by the flies, and his experience is that by far the best results are obtained at the pail by this method. The plan of soiling or partial soiling in give a good flow of milk. The most perfect place of pasture wholly, or in part, has attracted digestion goes on when the cow is at perfect case a good deal of attention of late years among and quietude. Although the cow's stomach is dairymen, and some of the best dairymen have

It would not be a difficult matter for any farmer to so arrange matters that next summer he can adopt this plan of stabling the cows during the day. If he commences early in the season a field of clover supplies the necessary food. This can be followed by green eats, sown at intervals, so as to last till fodder corn is in season, which will last till the fly season is over. To be sure caring for a herd of cows in this manner involves a certain amount of labour above that required saved instead of being scattered over the fields, defiling the grass so that the cows will not cat it, is no small item. When turned out at evening they will quickly fill themselves and then lie down for the night. The ground required for growing crops for day feeding will more than be saved in the less amount required for pasture, and leaving out all considerations of humanity to the animals, the farmer who pursues this course will be better off in pocket than under the old system of grazing.

One cause of the had butter in market is the unclean condition of many farmers' cellars. Decaying vegetables taint the air, and their odours are absorbed by the milk, to re-appear in whatever is made from it. If the meat barrel becomes at all tainted, it should be at once removed. In fact, wherever milk and cream are kept in cellars they should be kept in different rooms from the pork barrels. Readers of the RURAL, see that your cellars are clean.

THE Medical Record makes the startling statement, that looking-glasses are responsible for mercurial poisoning. In two cases given, of a man and his wife, the cause of the trouble was in a looking-glass hanging in the bedroom, the wooden back of which was dotted with thousands of minute globules of mercury. The apartment was heated during the night. In another instance the source of the poisoning was a mirror, forty years old, whose back had become weak, and from whose face the quicksilvery freshness was fading. The aged culprits having been summarily removed, their victims speedily recovered.

### HOME CIRCLE.

### GIVE THE GIRLS A CHANCE.

"The trouble with me is, Miss Dare," said Helen Brown as the two girls brushed out their braids, "I am not satisfied to be simply a farmer's daughter'—I want to be a business woman; I want a business education like a boy,"

"With a view of going into business for yourself?" queried the young teacher, turning a laughing glauce toward her friend's reflection in

the glass.

"No, but with the view of knowing something when I grow up, besides this everlasting round of stewing and baking and pickling. Has Hester Lane two ideas beyond that roomy kitchen of theirs, or any of the girls around us? Why should people make such a distinction between girls and boys? There is John can sit down and talk over business affairs with father intelligently, and he expects it of him. He would as soon think of taiking over money matters with Bruno as with me. It makes me vexed."

Miss Dare laughed at the girl's excited air, but asked quietly, "Haven't you as many brains as John?"

"I can beat him playing checkers."

"Yes, and at other things, if you set out. I see no reason why you should not 'know something,' and be able to talk intelligently, even on business matters, if that is your taste, if you will only apply yourself. But wishing never accomplished much,"—and she coolly pinned back a loose braid. There was a sly point in this which Helen saw. She was not so diligent a scholar as she might be, and all that winter Miss Dare, who was boarding at the farmer's, had tried in vain to stimulate her to closer application.

"Some distinguished man, I forget who," went on the young lady, "said: 'Make a boy master of arithmetic, and you have laid the foundation of his success in life.' Now, I should say that two or three other things are important, but certainly this is a foundation stone, and I do not see why it is not every bit as useful for a girl. The discipline of mind, for one thing, is excellent, and then the principles come in play, every day one lives. Now if you had been as ready as John to compute the interest on that note for your father, don't you think he would have had a higher opinion of your business talent?"

"I always did hate interest."

"So you will hate all business details unless you take hold with a will and master the points inch by inch. You have got to take one fort after another, just as a general does when marching into an enemy's country, if you are to be the victor. After you begin to take forts, then comes the enjoyment. I speak from experience."

The tea bell rang and the two girls went down stairs—Helen with a thoughtful face and a very decided mind. She would take one fort that very evening. The tea things were cleared away and the family scated for the evening, when Helen's father remarked:

"I wish John was at home this evening to help me a little with these accounts. My hands are pretty stiff, and I never was much of a hand at figures."

"I wonder if I could help you, father?" asked Helen, with surprising promptness for her.

"Spese you could?" queried her father, doubt-

"I could try; and may be Miss Dare would look over my work afterwards, and make sure I am right."

"Certainly," said that young lady, looking up from her reading. "It will be an excellent practice lesson for you, Helen."

Father and daughter were soon deep in the de- spend money without asking for it first."

tails of the business, and with an occasional question to Miss Dare, the work was completed "tiptop," as Helen's father said, to his great delight, as he was fearful he must put it off until next week, when John returned.

"Who would have thought, mother, that our baby had such a head on her?" said Mr. Brown, pinching Helen's solid cheek.

Was not Helen a happy girl? May be it was because she was only still "the baby" to her father, that he had never looked upon her as a reasoning being before.

Now that she had taken one good fortification, she took heart and attacked another. She plodded through a long page of tough "examples," over which she would once have fretted by the hour. If arithmetic would help a girl along in life, she determined to master it page by page. There were a few spots that seemed a little beyond her depth, but she did her best to understand every step she took, and succeeded far beyond the average of school girls. The determination and perseverance that this required, and the mental discipline, were the best results of all, though the practical knowledge was not to be despised.

A gentleman from the city came out one day to buy some stock of Mr. Brown, and accepted his invitation to stay over night.

What surprised Helen was to see the ease with which Miss Dare conversed upon all topics that came up, with this gray-haired man of business, who was in the habit of gathering information of a practical kind in every locality where he happened to be.

"How did you ever learn so much, Mabel?" asked Helen, in the privacy of their own room. "I never suspected you of being a business woman."

"Oh, a reputation of knowledge is very cheaply acquired sometimes. I always make a point of learning something wherever I go, and then you know I read a semi-weekly regularly. The fact is, Helen, I don't 'skip the dull parts' in a paper." Helen laughed as she saw the application. She always did skip the dull parts from regular system.

"You never will acquire much general information until you get over that habit," went on Mabel Dare. "Reading simply for amusement may do for a recreation, but all play quickly spoils the working powers of body or mind. The two great points with you, Helen, should be in these years to increase your mental powers, and add to your stores of knowledge. I would write these two points on a card, and study over the subject some minutes every day. I would ask myself every day if I had gained anything on either count."

There were several good papers in the house every week, but Helen had always been in the habit of skimming them over on the hunt for a story, and as soon as it was devoured the paper was thrown aside. She tried Mabel Dare's plans of reading for information, and was surprised to find that so much could be learned from a single number. She was a sensible gurl, and did not proceed to air her knowledge just for the sake of showing it off, but bided her time, and found it was easy and pleasant to join in conversation on other subjects besides cooking and sewing.

When spring work came on, she entered into the bustle with more zest than she ever had before.

"I wish I had something of my own on the farm, Mubel," she said one day, rather freefully. "Something I could raise money from, and increase by diligence. I know father is a better provider than most men about here, but I should love to handle money that was my very own; to spend money without arking for it first."

"There are a great many possibilities on a farm," said Miss Dare, "and I am sure your father would be willing to help you if he knew your ambition."

"The two girls discussed various ways and means before they went to sleep, and Helen's mind was made up to "try something."

It is said that Providence helps those who help themselves. That very week a swarm of bees flew over the wheat fields and alighted on an apple tree bough. The united talent of the family conspired to "hive them" in a bushel basket, and from thence they were transferred as soon as possible into a patent hive. It was Helen's discovery, and Helen's swarm. She felt that she was fairly started in a new industry of which she had not even thought.

"It seems a little like keeping strayed cattle, father," said Helen.

"It would be rather hard to prove property," answered Mr. Brown.

"Any way, I mean to ask Mr. Anderson about them," she said; "he is the only person very near who keeps bees."

She did ask him the very first time she met him if she had any of his bees prisoners in her hive.

He laughed, and said he thought likely, but that he should not go to law about it. He always had the luck to lose a swarm or two, but he did not know what to dc with all he did have.

So Helen's conscience was at peace, and she went to work with the greatest diligence to qualify herself for a bee farmer. She studied the subject in books, looked over the bee department in files of old papers up garret, and best of all, she made frequent visits to Mr. Anderson's, and found out all he knew about the culture from a practical point of view.

It was a good thing to begin small in this, as in most new enterprises. Those who start out with a dozen colonies are apt to find them much diminished before they are increased. Helenhad her ups and downs, as all have, but she did make good money out of the business, and found it a source of great interest besides. Her mind was wide-awake on the subject of carning something "on her own book," and her father wisely gave her all the facilities she desired. A pet cow, which had been her "little bossy calf" in the childhood days, not so far away, was now her young cow, and after deducting a merely nominal sum for its board, she had all she could make from it. She fed this cow and milked her, and churned the butter herself, and many a pretty article she added to her wardrobe and her room furnishing, by means of the money she earned from this.

If all parents were as wise, there would be a better crop of children raised on our farms. Instead of hearding up money to be cut up among the children after you are dead, and they have drudged on in poverty until middle life, give them a reasonable sum as they go along-not enough to make them lazy and worthless, but enough to really help them, as money would have helped you in your younger years. Nothing more endears a parent to the hearts of his children than a wise liberality. Nothing makes him more Lateful in their eyes than a close-fisted stinginess. It is not pleasant to feel that they are looking forward longingly to the day when the estate can J. E. McC. be divided up.

### AN ENGLISH FARMER'S WIFE.

"We's up at four o'clock, for yer must be up betimes; the young poultry are soft and can't bide long whiles without food. At quarter to four I steps out of my bed just sharp like and sings out to the girls, and they slips forth from bed as quick as ever they may, rid we jumps on

with our clothes and minds our beasts, whatever it may be that God has given us to look after. And then at seven o'clock Bilston and all of us have breakfast. We has home-made bread, and there's bread and milk for the girls; and we always has a slip of bacon on Sundays. After we have had breakfast," continued Mrs. Bilston, "master he bids they settle theyselves, and we sits this wise-Polly there, and Tom yonder, and Bilston in his arm chair," and the good woman enumerated and showed me exactly where each member of her family sat. "Then the master he calls for the family Bible, as belonged to his grandmother, in which is written how his father's sister died of the measles when she was four years old; and he begins at the first chapter of Genesis and works right on forward like till the book is ended, and then he starts and begins again. He always reads one chapter, and never no more and never no less; and when onything as he thinks applies like he says to one of them, 'Now you take and mind that, my lad,' or 'my wench,' as the case may be; and then, when he has said a few words of learning and minding, we gets up, and each of us goes off to his or her business. I churns regular three times a week, and the girls they get off to making the beds or scrubbing, or maybe to the calves or to the poultry. There's always work for the willing. Then by twelve o'clock we're all in again; and after the girls and the boys has a made theyselves tidyfor I can't do with no dirt about their hands and faces at meal-while we sits down; and we has most times broth, and rice or sagy pudding, and winter times an apple tart, or for a treat like, a jam roll; and then there's a glass of cider for Bilston and the men, and there's milk for the girls. And after we've a-done-that's saying, when all's have eaten up clean an neat whatever father or myself have a-given them-- we goes out. all but Polly, who clears away, and washes up and puts back all the pewter; and then we minds the beasts again till four o'clock, when we comes in and has tea, which I keeps in the tea caddy as my mother a gave me when I married, and which I always keeps locked-for I won't have no triffing with the tea; and after ten we drives in the poultry to roost, and we stalls the calves and such like 'nesh' beasts for the night. And after that the gals come, and they out with their needle and thread; and, to make the work go merry, we sings such sougs as I used to learn be times when I was a chit, such as 'Cherry Ripe,' 'Little Boy Blue,' and 'Sally in Our Alley,' and all the while we darn father's stockings or make the boys new shirts, or maybe the gals make their own gowns-but I wont have no furbelows or bunching about behind or before, as such like folly only hinders their gait and makes them vain with frippery. Then there's often the sheets to mend or the underlinen to put to rights. And I always keep they sweet with lavendy, as does a body good to smell and seems well and pleasant all get to bed, and I ses round rooms at the half hour; for I wo , stand no candles burning after such whiles, for it be a danger to the house and a folly to themselves."-Nineteenth Century.

### BEAUTY AND TEMPER.

It is time enough to begin to be amiable when you begin to be ugly, say certain young ladies, or they seem to say it. But nature punishes this - perversity in a very strange and remarkable manner. They who refuse to cultivate the moral beauty during the reign of the physical beauty, to lose the opportunity of possessing themselves of it, and moreover, they destroy their favourite species of branty by their independence and neglect of the other. The temper imprints its level of the dorsal region, and curves the spine in in Atlanta Constitution.

mark upon the countenance, which very speedily reveals the character of the disposition which lurks behind it. Being a growing power and a vigorous power, which is even strongest at death, it gradually overcomes every obstacle which stands in the way of its own escape into outside observation. It wrinkles the brows, lowers the eyebrows, bends down the curves of the mouth, and pouts the lips whenever it happens to be of a disagreeable nature; and it gives life and permanent animation to all the lines of the face whenever, in its course of feeling, it happens to be of a kind, generous character. It comes out at last and shows itself, and once shown and impressed upon the face it is there so long as it contimes to act from within, and that is generally for life .-- I'hiladelphia Letter.

#### THE FIRST SNOW.

Gay bloom the flowers in springtime set, And streaky apples linger yet; Twas Autumu but a week ago Why, then, these flakes of Winter snow? Summer's last rose they disarrayed. The while she dreamed in peace to fade. One swallow was inclined to stay; The white flecks frightened him away.

Winter's cold shock who first endure Think him unkind and premature: Complain the Summer was too brief, And moralize o'er each dead leaf. But as he grips with firmer hold We grow more careless of the cold: Joy in the sparkle of his snow, And nestle by his fireaide glow.

Dismayed, we note the first gray hair, Soon others come—we cense to care; Then gray, outnumbering the brown, And soon white Winter settles down. And when from youth we've passed to age, We've learned our lesson page by page, To take what comes for weal or wee, And never feet about the snow.

-St. James' Gazette.

#### WHEN THE FROST IS ON THE PUMPKIN.

When the frest is on the pumpkin, and the fodder's in the slock, And you hear the kyouck and gobble of the strutting

turkey cock;
And the cackin' of the guineys, and the clucking of the

BIETZE. And the rooster's hallykeeyer as he tiptoes on the fence; Oh, it's then's the time a feller is a-feelin' at his best,

With the risin' sun to greet him from a night of gracious As he leaves the house bareheaded and goes out to feed

When the fast is on the pumpkin and the fodder's in the

They's sempim' kind o' hearty like about the atmosphere. When the heat of summers over and the coolin' fall is here:

Of course we miss the flowers and the blossoms on the trees. And the mumble of the hummin' birds and buzzin' of the

But the air is appertizin', and the landscape through the hezo

Of a crisp and sunny morning of the early autumn days, Is a picture that no painter has the colorin to mock;
When the frest is on the pumpkin and the fodder's in the thock.

The husky, rusty rustle of the tassels of the corn, And the rarrow of the tangled leaves, as golden as the

The stable in the furrows, kind o' lonesome-like, but still A-preachin' sermons to us of the barns they growed to

fill : The straw-tack in the medder and the resper in the shed, The horses in their stalls below, the clover overhead;

12 sets my heart a clickin like the tickin of a clock When the frest is on the pumpkin and the fedder's in the sbeck.

### ROUND SHOULDERS.

First, suspend two ropes with ring handles ond, remove both bolster and pillow from their usual place under the head when one is sleeping,

direct reversal to the curves of the round shoulders, and as during sleep relaxation of the spine ensues, the posterior spinal muscles are permitted to recover some of the contractibility they lose during the day if supports be not worn. During the day let the patient recline upon the front of the body, lying at full length, as children do, and resting on the elbows. This favourite position with the children should be encouraged, as if steadily practised it is a sure prevention of deformity. This position is one of the greatest helps to symmetrical development in children.

### HUMMING-BIRITS UMBRELLA.

In front of a window where I worked last summer was a butternut tree. A humming-bird built her nest on a limb that grew near the window, and we had an opportunity to watch her closely, as we could look right into the nest from the window. One day there was a very heavy shower coming up, and we thought we would see if she covered her young during the storm; but when the first drops fell she came and took in her bill one of two or three large leaves growing close to the nest, and laid this haf over so it completely covered the nest; then she flew away. On looking at the leaf we found a hole in it, and in the side of the nest was a small stick that the leaf was fastened to or hooked on. After the storm was over the old bird came back and unhooked the leaf, and the nest was perfectly dry.-H. A., in American Sportsman.

### NEW METHOD OF CLEARING LAND.

Some of the lumber trade journals state that a new method of tree felling by dynamite has been successfully introduced. A cartridge of that explosive substance is placed in a channel bored directly under the tree to be operated upon, and when exploded, the tree is simply forced up bodily and falls intact on its side. If the system works as well as it is represented to do, and the tree is not fractured by the force of the explosion, a large proportion of valuable wood at the base of the trunk can be utilized which is now lost. This method seems admirably adapted for clearing forest properties and converting them into arable land, as it brings up the roots of the tree at one operation, and dispenses with the tedious and costly process of grabbing out the roots of the felled timber. This latter work was a Herculean task in many of the North-Western States, such as Ohio, Michigan, Minnesota and Wisconsin, and also in Canada. Many a farmer in Canada wore his life out in removing stumps, and died before the work was fully accomplished.

### THE FARMERS CONTENT.

Farming is a slow way to make money, but then there is a law of compensation about everything in this life, and far ing has its blessings that other pursuits do not have. He is the freest man upon earth and the most independent. He has more latitude and longitude. He has a house in the country with plenty of pure air, and good water. If he makes but little in the field, he l .s no occasion to spend but little. He can raise his own hogs, sheep, cattle and chickens. His wood costs him nothing, and the luxury of big-back logs and blazing fires in open fire-places all winter is something that city people long for but canont afford. My farm cost me \$7,000. I have 120 acres of open land in good condition, and it from a doorway, and swing by the arms three yields mo on an average about five dollars an minutes at a time three times a day. This will acre over all expenses. Say nine per cent, cure round shoulders within three months. Sec. upon the investment. Well, that is mighty little, considering my own labour and supervision. I've seen the time when I made five times as much and have one or both placed under the shoulder we have to keep a point it is times as much and have one or both placed under the shoulder we have to keep a point it. blades. This brings the head a little below the and they have to feed from the farm. Bill Arp,

### YOUNG CANADA.

EXILES IN SIBERIA.

Many years ago, in the early youth of the century now growing old, a book was published which, from its pathos and its transcription of filial virtues, took deep hold of the popular heart, and will never wholly let go. This is " Elizabeth; or the Exiles of Siberia." Originally appearing in French, it was shortly translated into various languages, proving its nature to be that in which all the world is kin. The story is on a basis of well-authenticated facts, which were transmitted to the author, Madame Cottin, in the letters of a friend who resided at St. Petersburg at the time that " Elizabeth " made her remarkable journey thither. The heroine's real name was Praskovy Gregorioa Lupulova-i. c., Pauline the daughter of Lupulova.

This man had been in the service of the Empress Catherine, and was exiled on a lifesentence upon an accusation of stealing plate from the royal household; though if the convict himself knew with what offence he was charged, it is certain that his child, even when she suffered so much for his liberation, was entirely ignorant

When Praskovy, or Pauline, was sixteen years of age, Alexander I. came to the throne. No sooner did the tidings reach their remote and dreary Siberian home, than a purpose was roused in the heart of the girl to make her way to the capital and plead with the new sovereign for her father's pardon. At first her parents refused to listen to so apparently impracticable a scheme, but her unccasing supplications finally prevailed. They gave her the ten copecks they possessed, a few more were contributed by charitable neighbours, where all were poor together; and with this sum of only a rouble-hardly more than half a dollar-and her parent's blessing, she set out to travel on foot four thousand versts -a distance greater than the width of the American continent.

The girl was very thinly clad, and suffered much from cold, as well as hunger. Twenty-five or thirty miles was her daily walk, but sometimes her feet were so swollen with fatigue as to compel a rest of two or three days. Starting at sunrise as a rule, she stopped when night overtook her at any shelter Prrovidence might offer; and God, she said, upheld her courage by giving her many pitying friends along the desolate way. Three-quarters of a year of this arduous journeying brought Pauline to the neighbourhood of Moscow, where her hardships ended in her being received into a convent and kindly cared for. From there to St. Petersburg her journey was by public conveyance.

The nuns, deeply interested in the poor girl, recommended her to the Princess Torrubetskoy, famed for benevolence, who immediately wrote to the emperor, making known the case, and had the letter, together with a petition for Lupulova's pardon, presented by an influential gentleman. The result was that the young woman received a summons to appear before his majesty, which she did trembling with weakness and emotion. Her anxiety was soon over, for he told her in the kindest manner that whatever the crime of her parent might be, he pardoned it for the sake of such a daughter. He also gave her two thousand roubles and presented her to the empress, who gave her three hundred roubles, and pensioned her with two hundred roubles a year for life. Full permission was granted for herself and family to live where they pleased.

The happy girl sent for her parents, and in the meantime she was invited from one nobleman's house to another, where her constant

entertainment was fit for a princess. Pauline was found to be very amiable, affectionate, pious, and much more intelligent than would be supposed possible for a native of the deserts of Siberia. By order of the dowager empress she was sketched in the dress in which she first appeared at the palace, with which the nuns of the convent had provided her, -a gown of gray calico, with " mutton-leg " sleeves, a large black crape handkerchief on her neck, a chaplet of beads and cross. and a white muslin kerchief wound carelessly about the head and knotted under the chin. The face was peculiarly gentle and pleasing, though not handsome. One of these pictures the dowager empress placed in her own cabinet. She also sent copies to each of the imperial family. It does not seem that the girl's head was at all turned by so much attention. When the book narrating her adventures under the name of Elizabeth arrived, and the heads of it were translated to her, she laughed and said, "A poor girl like me made into such a fine story!"

With a large sum raised for her by subscription Pauline went to meet her parents at Catherineburg, saying that her heart was in constant grateful prayer, God knew with what sincerity. Fears had already been felt lest the severe strain she had undergone had so injured the poor girl's constitution that she would not long survive to enjoy her good fortune, and so it proved. She lived to see her parents comfortably settled at Lower Novogorod, and passed away three years after quitting Siberia on her errand of love and

#### THE LAZY PUSSY.

There lives a good-for-nothing cat, So lazy it appears, That chirping birds can safely come And light upon her ears.

And rats and mice can venture out To nibble at her toes. Or climb around and pull her tail. And boldly scratch her nose.

Fine servants brush her silken coat And give her cream for tea; Yet she's a good-for-nothing cat, As all the world may see,

### TEACHING ANIMALS TO TALK.

A pretty picture, exhibited some time ago, represented a little child looking up inquiringly to the intelligent face of a collie dog, and was entititled "Can You Talk?" Sir John Lubbock has lately been asking the question of a little black poodle, and has been endeavouring to teach it to make its wants known by the use of cards with written characters upon them. Thus, one card bears the word " Food," another " Out;" and the dog has been taught to bring either the one or the other to his master, and to distinguish between the meanings of the two. It seems doubtful whether the dog in this case uses the faculty of sight or smell; and it would be a source of some interest and amusement to those possessing an obedient dog, and with time at their disposal, to carry out the same kind of experiments, using new cards every time.

It is constantly brought home to any observing owner of a dog that the animal understands a great deal more than he is generally credited with. In one case we know of a Dandy Dinmont who became excited when certain things were mentioned in so which he was interested, that French word had to be used in place of English ones when he was present. Their intelligence is truly marvellous. The wife of the editor of this journal possesses a terrier which, while his mistress is out driving, will remain quietly in the parlour during her absence, taking no heed of other vehicles that may nature, and cannot be

come to the front door in the interval, but instantly recognizing by some intuitive percention the arrival of the carriage or cab that has restored his mistress. Be it noted that the room in which Tim is confined during these temporary partings, is at the back of the house, apart altogether from the front door. This special power of discrimination on the part of our favourite has always been a marvel to us.

Col. Stuart Wortley, commenting upon Sir John Lubbock's experiments, tells an interesting story concerning a cat which he found during the Crimean War. The poor creature was pinned to the ground by a bayonet which had fallen and pierced its foot. The colonel released it; and the animal attached itself to him, and remained with him to the end of the war. The first two mornings of their acquaintance the cut was taken to the doctor's tent to have his wounds dressed. The third morning, the colonel was on duty; but the cat found his way to the doctor's all the same. scratching at the tent for admission, and holding up his paw for examination .- Chambers' Journal.

#### HOW POSTAGE STAMPS ARE MADE.

In printing, steel plates are used, on which two hundred stamps are engraved. Two men are kept hard at work covering them with coloured inks and passing them to a man and a girl who are equally busy printing them with large rolling hand-presses. Three of these little squads are employed all the time. After the small sheets of paper upon which the two hundred stamps are engraved have dried enough, they are sent into another room and gummed. The gum used for this purpose is a peculiar composition, made of the powder of dried potatoes and other vegetables. mixed with water. After having been again dried, this time on the little racks which are fanned by steam power, for about an hour, they are put in between sheets of paste-board and pressed in hydraulic presses capable of applying a weight of two thousand tons. The next thing is to cut the sheet in half: each sheet, of course, when cut, contains a hundred stamps. This is done by a girl, with a large pair of shears, cutting by hand being preferred to that of machinery, which method would destroy too many stamps. They are then passed to two other squads, who perforate the paper between the stamps. Next, they are pressed once more, and then packed and labeled and stowed away for despatching to fulfill orders. If a single stamp is torn or in any way mutilated, the whole sheet of one hundred stamps is burned. Five hundred thousand are burned every week from this cause. For the past twenty years, not a single sheet has been lost, such care has been taken in counting them. During the process of manufacturing, the sheets are counted eleven times.

### FAIR PLAY.

Fair play in play is the foundation for fair play in life. To play unfairly is to steal. By the rules of the game, you have certain rights, and your opponent has certain rights. These rights, like all rights, are of the nature of property. If you take the slightest advantage to which you are not entitled, you are to that extent-well, thief is a hard word to use. But I will let you or any other conscientious boy say what is one who takes that which does not belong to him, and thus infringes on the rights of another.

The boy who plays fairly is sure to make an honourable man. I should not like to say that the boy who plays unfairly will grow to be a rogue. But I will say that the boy who takes unfair advantages in a game shows a weak morai 'ed on in a pinch.

THE following decision, given by Judge Mc-Dougall in the Division Court, Toronto, last week, will not be without interest to readers of THE RURAL CANADIAN. Peebles & Co. v. Nolan, the first case, was a test one. It seems that the defendant signed an order for a book published by the plaintiffs, and afterwards countermanded the order to the publishers. Judgment was given for the plaintiffs, His Honour holding that all orders for subscriptions, books, etc., were binding on the subscriber, and any outside contract made with the agent did not affect the written contract or bind the publishers. Parties who sign a canvasser's order-book for a work sold by subscription, should know that they cannot afterwards cancel their order, and that whether they take the book or not, they can be made to pay for it in the Division Court. The publishers order their edition from the list of subscribers they have obtained, and it would be unfair to them to allow those who have ordered a copy to refuse to accept it when the delivering agent comes round. After an order has once been given for a subscription book, the subscriber must take it.

Many RURAL readers will be pleased to learn that they can secure the Montreal WEEKLY WITNESS-for many years so popular with thousands all over the Dominionand THE RURAL CANADIAN, on remitting to this office \$1.25. Reader, promptly make sure of wholesome reading for your household for 1885. Balance of year FREE to new subscribers.

THE rapid growth and dense shade which buckwheat makes, says the Toledo Blade, gives it great value as a weed destroyer. Even thistles can be kept down by it if the land is sown as soon after ploughing as possible, and the first thistles that appear are pulled or cut with a hoe.

Rural subscribers are amazed at the \$1.15 offer. For this insignificant sum we send THE RURAL CANADIAN and WESTERN ADVER-TISER for one year to any address. The arrangement we have mule places the leading weekly family paper of the West, and the best farm and home magazine within the reach of every one who can read. Thousands, we feel certain, will promptly take advantage of the offer.

Sue was going on a journey and a long night's ride was before her. "Oh dear," she sighed, as her husband bade her good-bye in the sleepingcar, "this night travel is so tedious, and the hours are so long, "Don't be discouraged," he said, "you are in a fast train and the night will slip by very rapidly."

Young men and others will find our Premium offers in adjoining columns, worthy of consideration. Any one who has a little "go" in him may secure a good fowling-piece, rifle or double-barrelled gun, as the result of a tew hours' work. There is no neighbourhood in Canada where a club can not easily be got up for THE RURAL CANADIAN. Attend to this little matter at once. "Work and win one of these valuable Premiums. The articles are guaranteed to be as represented.

A CORRESPONDENT of the New England Farmer says that a farmer observed that some of his apple trees that had been dressed with unleached wood ashes bore apples which kept all winter without rotting, while the rest of the fruit rotted badly. His trees were infested with apple tree blight. He finally applied wood ashes, at the rate of two hundred bushels to the acre, to his orchard, and washed the bodies of the trees with lyo. The orchard recovered from the blight, and the apples would keep well in an ordinary cellar all winter.

# YOUNG MEN, ATTENTION!

NOW IS YOUR CHANCE! The Greatest OFFER ever made in CANADA.

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Any of the following FIRST CLASS Firearms can be obtained FREE by any Man or Boy who will give a few of his spare moments or evenings in his own neighbourhood and among his own friends.



Single barrel, muzzle leader, fine de-carbonized blued steel barrel, small nipples, blued steel mountings and steel ramind, made first-class material. The lock of this gun is equal to that of a \$1000 gun, and will outwear and outshoot any gun that is sold for so in Canada. With bullet mould and steel wad punch. To may one who will secure us SIX SUPPLEMENTS to the RUMAL CANADIAN at \$1.00 each, and id same to us with cash euclosed, we will forward the splendid Shot Gun described above.

PRIMER-BREECH-LOADING RIFLE.

The barrel is made of decarbonized steel and splendidly rifled; using the regular Spencer metalic cartridge; sighted to kill at 500 yards. positive and simple shell ejector superior walnut stock; case-hardened locks and mountings; 22-inch barrel; magnificent bar lock. No person who needs a good substantial sporting weapon should neglect this opportunity to secure a rifle which is in every respect reliable, substantial, well finished and accurate.

To any one who will secure us TEN SUBSCRIBERS to the RURAL CANADIAN at \$1.00 each, and send same to us with cash enclosed, we will forward this Superior Rifle.



SPORTMAN'S FAVOURITE. THE

English Double Barrel Muzzle-leading Shot-Guns. Good tested barrels, back action locks, fine political stock, checkered in ak-off, steel mountings and locks, ramred with the and extractor. Superior to any S1800 g.m in the market. To any one who will secure us FIFTEEN NUBSCRIBERS to the RUBAL CANABLAN at \$1.00 ench, d send same to us with cash inclosed, we will forward this much admired Double-barrel Shot Gun.



THE CELEBRATED RURAL CANADIAN DOUBLE BARREL BREECH-LOADERS.

Strongest, Safost, Simplest Breech-loading cun in the world. The celebrated Lefsucheux action, while not qui to as hardy as a side or top action, can be operated as quickly. When this gun is closed it has firm and strong as a muzzle-backer. Best decarbonized steel barrels, patent automatic ejector, fine wannt atock, checkered hand, good locks, patent actors forcend. We warrant this gun in every respect as safe, strong, durable, and a good, close, hard shooter, and any one who is satisfied with these qualities without extra fine finish will be more than satisfied with this gun.

To any one who will accure us TWENTY-FIVE MERSCRIBERS to the RUBAL CANADIAN for one year at \$1.00 each, and send anne to us together with the cash, we will forward this High-class Breech-Londer.

Remember this offer is open to all and the common to the cash, we will secure to the safe and t

Remember this offer is open to all, and you can commence AT ONCE. You do not require any instructions from this Office, although we will be pleased to send you Sample Copies and Club List FREE on application. You run no Eisk. You make no outlay. You can get up the Club at your leisure and in your own district. If you try for the highest prize and yet do not succeed in getting more than SIX, you can at any rate secure the FARMERS FRIEND. You should note that this is the greatest offer ever made in Canada, for the prizes alone are worth almost the entire amount sent us for the subscriptions.

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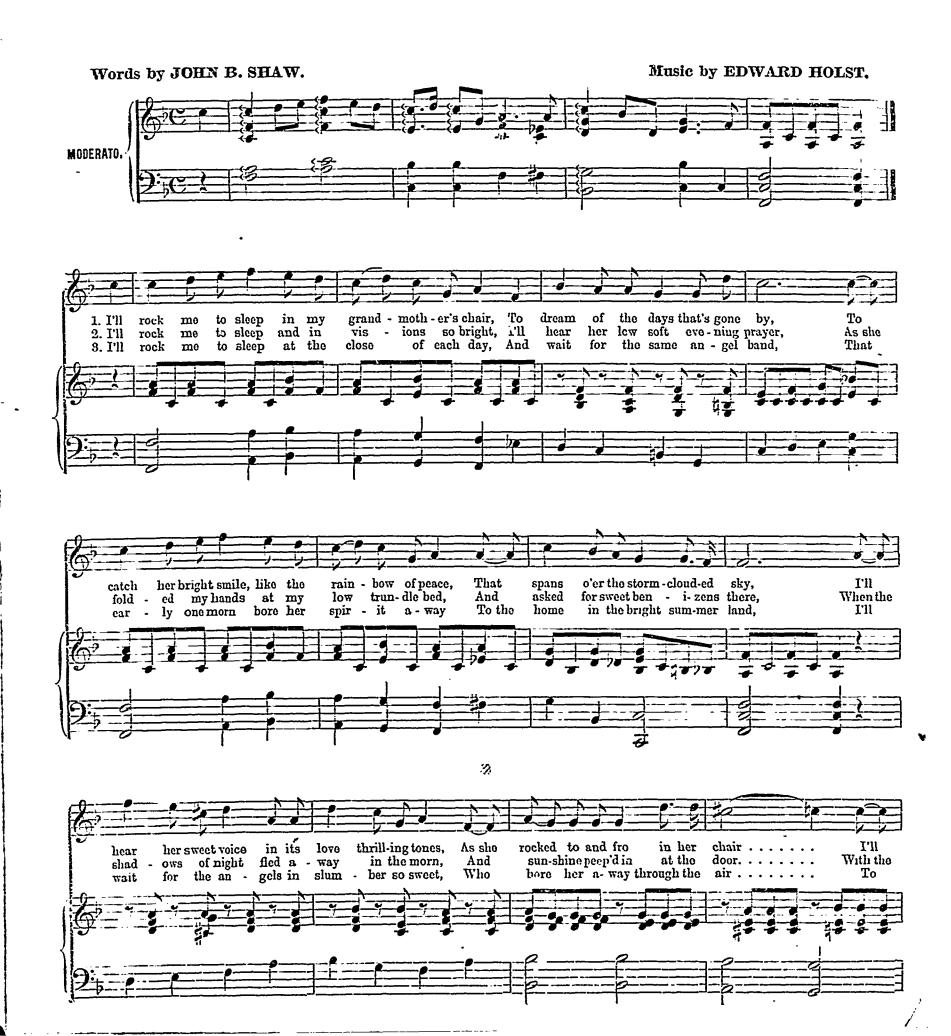
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## I'LL ROCK ME TO SLEEP IN MY GRANDMOTHER'S CHAIR.





When the Mason & Hamlin Company announced the accomplishment of a great improvement in Upright Imanos, which they would soon give to the public, much was expected, because of the vast improvements which hadbeen effected by them in reed instruments, and the acknowledged superexcellence of their organy. These expectations are fully justified by the pianos which they are producing, which have extraordinary purity and refinement of tone. Every mechanic will see that the peculiarities of their construction must add greatly to their durability and especially their capacity to keep in good tune.

This company have as great a future in their pianos as they already realizing in their organs, which are confessedly unequalled among such instruments.—Boston Tra-

led among such instruments,—Boston Tra-

Wa call the attention of our readers to the Enterprise Meat Choppers advertised in our present issue. The demand for these Choppers has attained such immense proportions that the manufactures have been compelled to largely increase their facilities for micking there, and we are assured that they are now bling turned out at the rate of 1,500 per week, 150 hands being steadily employed on them.

There can be no doubt as to the excellence of these Choppers, as they have been tested by the editors of nearly 100 agricultural papers, who have given them a hearty endorsement. We cordially recommend them to all our subscribers as by far the beat machine of the kind ever introduced to public favour.

to public favour.

#### CONSUMPTION CURBD.

An old physician, retired from practice, having had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Brunchitis, Catarth, Asthma and all Throat and Lung Affections, also a positive and radical cure for Nervous Debility and all dergots (complaints after having tested its wonderful curative powers in thousands of cares, had felt it his duty to make it known to his singing fellows. Actuated by this mtoire and a desire to relieve human suffering, I will send free of charge, to all who desire it, this recipe, in German, French or English, with full directions for preparing and using. Sent by mail by addressing with stamp naming this paper, W. A. Noyes, 149 Power's Block Rochester, N.SY.

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We the undersigned, druggists, take pleasure in certifying that we have sold DR. WINTAR'S BALMANI OF WILD CHERRY for many years, and know at to be one of the oldest as well as one of the most reliable pre parations in the market for the cure of Coughs Colds, and Throat and Lung Complaints. We know of no article that gives greater satisfaction to those who use it, and we do not besitate to re HAMILTON, ONT , June 19, 1882

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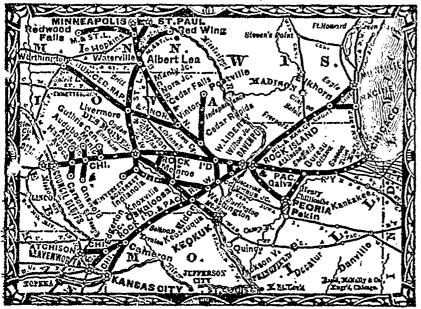
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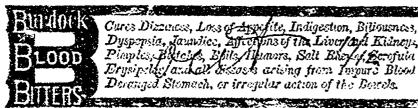
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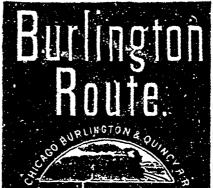
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