2

## AND ORGAN OF THE ONTARIO BEE-KEEPERS' ASSOCIA

VOL. VI. WHOLE No. 304

WELLAND, ONT., WEDNESDAY, JULY 9, 1884.

ONE DOLLAR
Por Annum
IN ADVANCE

NETBERLAND (H. H. Bk. 32)

We present to our readers in this issue, a fine portrait of the imported Holstein cow, Netherland Dowager, (II. II. Bk., 2632) imported and owned by Messrs-Smiths & Powel, Syracuse, NY.

She was calved March 1874, and is therefore 10 years old and a grand specimen of a Holstein. Her sire was a district bull of Beemster, and her dam Oudo Schemmel has a record of over 80 lbs in a day.

Netherland Dowsger gave in Holland, The first season in this country after im- plants from cuttings bear fruit so soon Coal oil will destroy the festive pea-bug them sufficient room for growth until the portation, and before she was acclimated, and freely, as they do not make long It is a specific for the purpose. A gallon plants are wanted later in the season for she gave 12,734 lbs., 2 oz.

NetherlandCam,a daughter of Netherland Downger gave, as a two-year-old, 7,-695 lba., 11 cz., in eight months and twenty days, at which time she was sold for \$1000.

The Lakeside herd, of which Netherland Downger is a member, now numbers over seven hundred head, having been increased this year by importations of about four hundred head of the best specimens that could be found. Every animal was selected by a member of the firm in person, a fact that is a guarantee of their high quality and excellence.

We would advise any of our readers who may be interested in this justly popular breed of cattle, to visit this herd, or at least correspond with Smiths & Powell.

#### CUCUMBERS FROM CUTTINGS.

is to propogate them from cuttings. Cat- inch or two from the soil. tings are very easily rooted and they begin

ted singly in small-sized pots. In stop- case of almost every kind of cucumber The bed should receive a little water as ping cucumbers, we often put the pieces taken off, in round the margin of the mounds, and can always find young plants when any are wanted. Rooting them in pots is also a very good plan; it is astonishing how quick they strike root into any light, sandy mixture and from pots they are easily transferred to the fruiting beds. The cuttings being made of shoot-bearing small fiults, these very often remain fresh and good, and swell up immediately just before importation 91lbs in a day. they are planted out. It is in this way

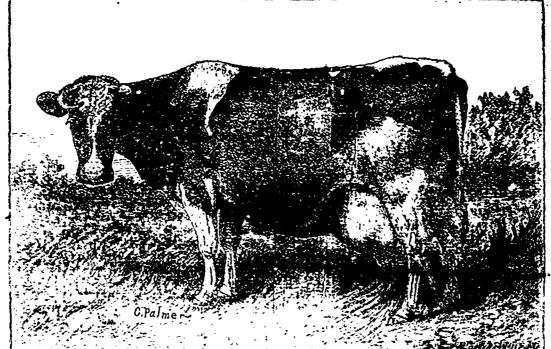
#### PEA BUGS.

where numbers of plants are grown, one first, or just enough to make the soil moist; or more will come better than the rest. then take them up and transplant, using a The only way, therefore, of securing more sharp-pointed stick, called a dibble, for of the same sort is to resort to cuttings. making the holes and pressing the soil In raising plants for late autumn and win- against the root of each plant as set. The ter fruiting, the cutting plan is by far the plants should be set about four inches best. Cuttings can be taken from the apart each way, or if one has plenty of most fruitful of the summer plants, and room they may be set in rows, and wide plants thus raised will be very short-joint-, enough apart to admit of hoeing between; ed and fertile, while seedling plants might but the former is the more usual practice, be rambling over the trellis. principal object of transplanting is to give

> setting out in rows, in place? where they are to be cultivated, and the stalks blanched and prepared for home use or the market. After transplanting, it is well to apply water sufficient to settle the soil about the roct and prevent the leaves wilting. Celery plants treated in this manner can always be remove later in the season without danger of loss, and their growth will be checked but elightly, if at all, by removal even in dry weather, provided the soil about their roots is moist when they are taken up.

HAY MAKING .-- Hay is valvable in proportion to the quantity of sugar and allumer it contains, which makes it, when properly handled, a sweet and palatable food for animals. The period of cutting is of

If grass is cut when richbushels. The seed to be purfied of bugs est in sugar, it will make, when cared, the is spread in the bottom of a bin to the most digestible food for animals. It will depth of a few inches. Then with a fine then be greedily consumed, leaving no watering-can, the apout of which is flatten- waste in the man er. Such hay will fated and perforated on the under side with ten stock readily, and will keep in good clover has turned a tritle brown, and when the flowers begin to fall in timothy. Of course this cannot always be done. Other work may interfere, or storms may occur taken off may be made into cuttings in one plant of any kind, I would not soon as colery plants are an inch or two and prevent us cutting at the proper time. the ordinary way. They may then trouble myself about seed failures, or high they should be transplanted. Merely When grass is cut too green it will make a



side shoots on which the fruit is borne, When once a few cucumber plants have and the main stems of the cutting plants been raised and become large, the best way fruit too, some being produced only an

As a rule, seeds of new and valuable best parts to make cuttings of are the cude cultivator may be put to some little inof the young fruiting shoots. As it is convenience on account of the smallness often necessary to stop these, the pieces of his stock; so long, however, as I had TRANSPLANTING CELERY PLANTS.—As

stems like the seedlinge before emitting | and a half of coal oil is sufficient for sixty mportance. to bear immediately. They will produce encumbers are sent out in very small fine holes and the oil is applied. Very condition work animals, with but little fruit fit for cutting in half the time plants quantities, half a crown for a dozen seeds little does for a depth of three inches; the other grain for feeding. The proper period from seed will. We have cut good fruit being no unusual price, and when half of rake soon covers all the peas with a coat- for cutting grass is when the blossom in from cuttings when three weeks old. The these are bad or fail to germinate, the ing of oil. Then a second layer is put on and similarly treated.

either be placed in the mounds of earth in more seed, as I could raise plants by the moving them in the same bed will answer rank, green hay: if cut too ripe, it will which the old plants are growing, or pot- dozen, if necessary from cuttings. In the fully as well as setting them out elsewhere. be woody.

#### STOCK.

HOLSTEIN CATILE.

J. M. STAHL, TEXAS, "FARM AND RANCH." These cattle are onen called Helsteine, and while Friesians is the more proper

name, both are allowable.

For years stockmen have been talking and writing of the "all purpose breeds." Some breeds were specialties, as the Jersey for butter, the Durham, Davon or Polled Angus for beef, and the Friesians for milk. The excellence of a breed of cattle is to be found in its beef, milk or butter; and while some breeds distinguished themselves in some departments so much more than in the others as to give them a reputation relating to but that one department, none was sufficiently productive of beef, milk and butter, as to give it the reputation of an all purpose breed. In fact, it was claimed that no breed could be distinguished in the production of all three, and that breeds must always remain specialties. The search for an all purpose animal was denounced as silly and chimerical. The erroneous assumption that beef production and misk production are antagonistic was made and accepted as truth. As a result, it was one of the tenets of stockraising, that the better an animal was for the butcher, the worse it was for the dairyman. Some breeders of Shorthorns claimed that this breed was a near approach to the one of general excellence sought, being an undisputed beef breed, and also yielding large quantities of milk, of good quality. But it was shown with much flourish of trumpets, that those strains of the Shorthom breeds which were noted for beef were poor milkers; and those noted for milk were inferior beef animals,

The breeders of fancy animals thus discouraged, rather than encouraged, the introduction or development of an all purpose breed. But the farmers, the "common herd" of stockraisers, did not give up the quest. They were greatly desirous of finding the all purpose breed.. The farmer wanted a cow that would produce a calf that, if a steer, would grow into profitable beef; if a beifer, would jield a large amount of milk, and when the time come, would fatten into profitable beef. And when he chose, this cow was to yield an abundance of milk, and then, like her female and male progeny make good, profitable beef. It is neither convenient nor profitable for him to keep a breed that yielded only beef or milk alone. And it was troublesome and expensive to keep two or more distinct breeds upon the same farm. What he wanted he failed to obtain by crosses, and if the all purpose animal is found it must be of a recognized breed. The scrub may be said to be a no purpose animal as often treated.

That a strictly all purpose breed is found I am not ready to say. But some facts lately brought to light would give the Friesians by far the best claim to the title.

That the Friesians were entitled to the first place ss milk and cheese animals has never been disputed. There yield of milk has never been surpassed, and is peculiarly well adapted to the production of cheese. Their average period of milk giving is 300 season for calving approaches. In one of then, they hold the first place.

But, while the the quantity of milk was

butter elements it was so sadly deficient the the Jersoys, which gave far less milk, were the superior butter cows. Lately the butter production of Friesian cows has been published, and all parties were surprised to find that in this point they had surpassed the Jerseys. This stimulated to other tests, and these have demonstrated that in butter production the Friesians are the equals, if not the superiors, of the Jersoys. It was claimed by some that the butter made by the Friesians was not so good as that made by the Jerseys; but at several prominent fairs, where the breed represented by the butter was unknown, that made of milk from Friesian cows has taken first premium. In fact, it would be hard to understand how any difference in the quality of the butter could exist if the cows received the same quality and kind of food, the milk being set in water at the same temperature, skimmed, acidified, churned, salted and worked alike. Thus, in the second grand division of production the Friesiaus are unexcelled, if they are not unequaled.

But how as to beef? Here is the weakest point of the Fresians. We can say that for milk, cheese and butter, they are not surpassed, in any particular, by any breed; but I do not think it correct to say that they are fully the equal of the Shorthorns or Davors, in beef production. I know that some enthusiastic breeders assert that in the production of beef they are unexcelled; but I think this is putting too high an estimate upon this quality of the Friesians. For the first eight or nine months Friesian calves gain in weight equal to the Shorthorn; but their growth does not continue so long and steadily. The Friesians weigh. on an average, about 1,200 pounds. They fatten easily, and their beef is of good quality. Yet they will never be the best beef breed, though always a good one.

Their first use is for the dairy, and their value and desirability is enhanced by the fact that the males can be profitably fed for the butchers' block, and that the females, when no longer wanted in the dairy, can be made into profitable beef.

The Friesians are not dainty animals. In this respect they are far more desirable than the Jerseys. They will cat coarse, rough food which the Jerseys would not touch. They are also more hardy and less affected by vicissitudes of weather. In the hot summer time they will browse steadily along while the Jerseys will huddle under some tree. They are good eaters, and good caters make good milk and beet producers.

The Friesians have been carefully bred for five hundred years, and therefore are a well established breed, and such a long line of decent makes them true and strong breeders. The offspring of a Friesian and other animal always partakes more largely of the characteristics of the Friesian, though that other animal be a

#### VICIOUS HORSES.

Vicious horses are not desirable anywhere, but if there is one place more than another where they are not wanted and where they should not be found, it is on a farm. In the different work that horses days- as long as desirable-and it may be have to perform in farming it is often the continued longer. In fact, it is frequently case that horses have to be handled by difficult to stop the flow of milk as the several different persons during the seasor, and often by boys or men who incomprthe three great divisions of production, teat. A horse with a bad disposition is not slow to understand whether he or the one who handles him is to be the boss, and acknowledged, it was held that in the when the least opportunity is afforded didly doubt. Of their great antiquity, a without so much water.

they are not slow to take advantage of it. Reports of men or boys being killed by such animals are quite frequent, and other mischief that they do is as often heard of or experienced. It is generally taking great riaks of peronal injury or of injuring others by keeping such animals on the place, and unless they have some redeeming qualities it is far better to part with them even at a sacrifice. The best place for a horse that is not perfectly gentle and reliable is in teams in the cities where they have constant work, and where they have the same master day after day, and the sooner they find their way to such pesitions the better it is for them and all con-

#### THE SHORT-HORNS STILL.

The following paper was read before the Fulton Co., Ohio, Shorthorn Association by W. D. Crout, an authority upon the aubject:

It must be admitted that the Short horns present themselves to notice under circumstances of peulier interest, possessing in an eminent degree qualities which have generally been considered almost faultless, combining fine forms, fine color, early maturity and compactness, and giving the greatest weight in the smallest superfices. As milkers, they were primarily considered most excellent, and where bred to milk exclusively, can produce as fine records as any breed, combining both quality and quantity. Indeed, the point of excellence which first brought them into such favorable notice was their extraordinary milking qualities, combined with fine, mellow skin and flesh and great aptitude to fatten. It is a noteworthy fact that in the animal economy those which possess an excessive secretion of flesh and fat should also be productive of other rich secretions. Wherever any of the milking strains of Short-horns have been crossed with other cattle their superiority is equally manifest in respect to dairy qualifications, as in every other, and they have successfully pioneered their way into every country known where agriculture has attained any advanced standard.

That animals which have been bred pure are much more excellent than any alloy, we have indubitable evidence, and many attempts have been made by breeders to produce something, if, possible, superior to the Short-horn, which attempts have ever been signal failures. Culley, an English historian, tells us that an attempt was made by an importation from Holland of the Dutch cattle which are playing so prominent a part in the recent American cattle "booms," and many were led astray thereby, but says also "that there were some intelligent breeders who steered clear of this evil, and from them the pure Shorthorn breed have descended to the present time." Mr. Bailey, another English bistorian, says in his Agricultural Survey, that as far back as 1740 "an attempt was made to improve the Teeswater breed, more in regard to size than anything clae, by a Mr. Michael Dobicon, of the Isle near Sedgefield, and brought home from Holland a complete spotted or pied animal with immense buttocks which did a 'doul of mischief,' but some intelligent breeders steered clear of the evil." History seems to make it plain that any attempt ever made, other than by a close confinement to purity, has always resulted disastrously. That for many centuries they have been bred and held the most prominent position of all cattle, we think that none can can-

prominent English bistorian says: "At what time the Short-horns were brought to these Danish counties in England is unknown, but it is probably as many as seven or eight centuries since. There is a cow sculptured on the west corner tower of the castern transept of the cathedral of the city of Durham, commemorating a tradition as to the eathedral, and in every respect the effigy represents a Short hora cow." As to quality of beef, none at this date do otherwise than concede to them the greatest point of excellence which combined with their great weight of careas and small offal, renders them superior to all other breeds for the butcher's block. As regards some of the great weights anciently, Mr. Youatt says: "The circumstance which bought the Short horns into the most extensive notice was the production of the Durham ox, an animal which speaks volumes in favor of this blood, which at five years old was on exhibition near Bedale, and whose weight reached the enormous sum of 3,024 lbs., and was computed to weigh of dressed meat 2,352 lbs. "Mr. Robert Colling's heifer, which was exhibited as a curiosity, was estimated to weigh at four years old 1,829 lbs. That from time to time other breeds have attempted to tival them is well known, and the fact of their standing today without a rival for general purposes, is accounted proof positive of their general appreciation by the public at large.

Coming down to more modern times, the verdict of to-day among breeders in all the best localities, such as Illinois and the Kentucky blue grass regions, is that the Shorthorn as a beef-producing animal is in no fear of yielding the palm to any other breed. Taking this in connection with the shortage of English beef production, which shows a falling off of 162,611 head from 1876 to 1882, it is plain to see that the demand upon the country must continue and rapidly increase, and that means good prices in the future for the cattle raisers in this country. That the prices of Short-horns continue to hold well and not depreciate, is evidenced by the public sales of the past summer; the one of Pickerell, Thomas & Smith, of Harri town, Ill., where sixty females averaged \$550 per head, and tourteen males, \$310.

In conclusion, let me say to my brother breeders, let us maintain this standard of excellence by every means in our power, and in no ase depart from a pure and undulterated line of breeding. As to pedigree, be as exacting as you please, but be careful that the animal possesses those qualities demanded by the rush and push of the age, and success will over be ours.

Rems it is said may be foundered by teeding them rye. When ground and fed with oats, it is not so injurious.

Our flocks of sheep must be improved in two ways, first, by good feeding, second, by the use of good ma'es. Raise sheep for wool and mutton. Either will pay.

Food for hogs should not be diluted too much. If it is the hogs take in so much water that there is not room for nutriment. Sour milk is in a sufficient state of dilution, and a farmer'who feeds his hogs nothing but pure sour milk will have good hoge; but one who feeds his hoge on slops will have big-bellied, poorly nourished, poor-producing hoge. A hog ought to live without drink, but he wants food

#### FAMILY CIRCLE.

#### THE PARMER'S WOOLSO.

The daisles podded in the grass, the buttercups were sleeping.

And just acress the riversang the farmers at their

linen the bills so blue and fair the maple leave were showing Their soft white beauty in the breeze that from

the sea was blowing.
A little meid came through the lake with sou

and rippling laughter:

The buttercups made way for her; the daisless needed after.

A strong young farmer saw her pause beside the

She drown filly from its depths, with golden heart a quiver.
"Thou art more fair than lillies are," said he with

hand uplifted.

And throw a poppy as the stream toward the the maiden drifted, She set the flowers in her hair, the red and white

togother;
A cloud grow black before the sun, and rainy was the weather.

He came across the river then, the farmer from his mowing; He minded not the water's depth, he cared not

for its flowing.
"O, love," he said, "if gleaming cun and cloudsess

skies o'er lean us.

The river's barring width may roll, unpassed, un-

tried between us;
But when the loud thunder fills the air, and clouds and rain compover.

I'll cross the ocean to your side, I am no fair day

And so one day the vilinge belts rang across the

Their music set the buttercups and dausies all a quivor; While some one drow a filly from the stream so

bithely flowing.

And plucked a blood red poppy that amid the

wheat was growing. The maiden set them in her hair, the red and

white together,
With many a smile, a tear or two, and glances at

They passed beneath the chapel's shade the former and the maiden

Where arches crossed above their heads, with snowy blossoms ladon.

And in that place of holy calm the bluding words He in the heart bore out the truth, she on her

head the token. The years went by, and some were bright, and

some were cleuded over; But ever stood he at her side; he was no fair day

lover.

#### PURE DRINKING WATER.

This mater of pure water to drink, is vital, vital, VITAL to the well being of farmers. It may be the fate of all delicate, "pecked" children to die, but these are the ones that the mothers, at least, love best, and there is a vital deal of rending of over the hearts sickness and death delicate ones, young or of the eld which might at least be postponed for many years, if they and we had pure water to drink. Wells near barnyards or within two or three hundred feet of them, semetimes contains the gems of disease and death. The old fashioned privy vault, fifty times more dangerous, is usually nearer the house and the well, and contrived, as if by the "arch-enemy," as an unfailing source of malarial poison, of diptheria, typhus and typhoid fevers, and the evils that follows in their train. There ought to be state laws forbidding the existence of the privy vaults, or even of cesspools, except perhaps, cemented eisterns, through which a regular flow of water is maintained.

No systemwas ever devised equal to the Mosaic, (Dent. x xiii, 12 13 and 14.) but that is particularly adapted to a nomadic people, although I have met with it in Louisiana and Kentucky, and know it is the rule in Texas, where the abomination | alluded to has never existed, except to a very limited degree. -Ex.

#### EATING LEMONS.

A good deal has been said through the napers about the healthfulness of lemons. The latert advice is how to use them so they will do the most good, as follows: Most people know the benefit of lemonade before breakfast, but few people know that it is more than doubled by taking another at night also. The way to get the batter of a billious system without blue pills or quinine, is to take the juice of one, two or three lemons, as appetite craves, in as much water as makes it pleasant to drink without sugar, before going to bed. In the morning on rising, at least half an hour before breakfast, take the juice of one lemon in a goblet of water. This will clear the system of humor and bile with efficiency, without any of the weakening effects of calomel or Congress water. People hould not irritate the stomach by eating semons clear; the powerful acid of the juice, which is always most corrosive, invariably produces inflammation after a while, but properly diluted so that it does not burn or draw the throat, it does its medical work without alarm, and when the stomach is clear of food has abundant opportunity to work over the system thoroughly, says the medical authority.

HISTS ON HANDLING FRUIT IN THE

In hulling strawberries do not put a drop of water on them unless compelled to by the earth clinging to them. In that ease have a basin of ice-cold water at hand and before pulling them, dip them, and out again. In preparing them for the table or for canning, take all the small, green or broken berries out; put them, with their weight of augar on a cool part of the range, and let them simmer until the juices are all extracted. Then strain, and bottle, sealing tight. This is a good way to do with all kinds of berries or fruits; it makes a delicious flavoring for pudding sauces, cakes, etc., and also an addition to a glass of water. A rich, ripe bananna to two quarts of strawberries, and cut in thees through the berries, is an addition that will be liked by almost every

In canning berries, I put the berries and the amount of sugar which I use over them in the caus, set them in cold water, and let it boil only sufficiently for the sugar to be melted and the juice to look clear. Fill them to the top from other cans, and be sure they are air tight. Ton put them away in a cool, dark place.

CHERRY JAM .- To each pound of cherries allow three-quarters of the best white sugar. As you stow them, throw them into the sugar, and let them stand all night. Next day, boil them slowly until they form a thick, smooth mass.

CHERRY JELLY .- Take large, fine, juicy red cherries and stew them, saving carefully every drop of juice. Take half the stones and crack them, taking the kernels and putting them with the cherries and the juice into a preserving kettle. Let them boil slowly for half an hour. Transfer to a jelly bag, and squeeze out all the juice, and allow a pound of white sugar to every pint of juice. Let the sugar dissolve slowly, and then boil twenty or thirty minutes. Put it away in tumblers or bowls, and cover it with paper that has been oiled or disped in a little brandy.

RHUBARB AS AN APJUNCT.-When make ing a strawberry or raspberry tart, if you have not enough of the fruit, take rhu- make two pies.

bark and clean and stow. When cold, to a quart of rhubark add a pint of berries, helps to give variety now, when apples are and you will be surprised to see how the becoming tasteless and the housekeener's flavor of the rhubarb is concealed by the fruit. It is one of the peculiarities of ishing. To one quart of flour allow two rhubarb that it imbibes all flavors. In making home-made wines, it will be found spoonfuls of baking powder : mix with invaluable. You can prepare a preserved ginger from it, flavoring it with orange, lemon, or almond. Boil rhubarb and currants together,-either red or black-and strain, and you have current jelly. Flavor the simple juice of rhubarb with lemon peel and stick cianamon, and you have fine quince jelly. Then again, boil the simple juice with brown sugar, only adding a small quantity of molasses, letting it get quite dark and thick, and you have the very best coloring for gravies and soups. Boil some juice with an equal quantity of white sugar and some red currents and strain it. Then, boil again, drop in singly some ripe and large strawberries, and you will have a delicions addition to your winter fruits. The possibilities of rhubarb are quite wonderful. There is only one important thing to be remembered; for mixing with other fruits you must first extruct the juice by boiling it without sugar, and then strain, add the destred quantity of sugar and go on with your process.

#### FASILION NOTES.

The ginghams and piques this season are much trimmed with Hamburgh edging. On some are seen ruffles of Hamburg, headed by a wide band of inserting. The piques are very elaborate with embroidery.

THE princess dress, fastened to a smoothly fitting body, will be a favorite costume for the mountains and seashore. Dark blue lady cloth is the materia' mostly used. The skirts are made wider this season and very full in the back.

MATERIAL used for bridal toilets are white satin and brocade, embroidered crepe de chine, Surah silk and Ottoman and India silks. Magnificent fronts of peurl bends and hand embroidery are used with these silks to complete a grand costume.

ULSTERS and dolmans made of serge and light qualities of cloth are used for summer voyaging. The dolman is more used, as it admits of being donned or doffed with ease and work with comfort. The chuddah shawls are much sought after by ladies who travel.

New patterns in real laces show most charming effects in feathers with curled edges-sickles with sheaf in the centic, and large roses beyond. The sickles are formed of starry figures set close together, and there are also oval wreaths of daisies holding clusters of grass and wild flowers, and long stalked lilies filled in with long leaves and much fine work. Duchesse lace is now filled in solid, the holes which formerly disfigured and gave it a a flimsy appearance are not allowed to appear.

#### RECIPES.

Corrage Pupping,-One tablespoonful of butter, one egg, one cup of sugar, one cup of sweet milk, one pint of flour, two teaspoonfuls of baking powder, to be served hot with sauco made of one-half cup of water, one-half cup of sugar, one teaspoonful of corn starch to thicken, nutmeg or vanilla to flavor.

MOCK MINCE PIES FOR SUMMER-Four soda crackers, two cups of hot water, two cups of sugar, one cup of molasses, onehalf cup of butter, one-half cup of vinegar, one teacupful of stoned raisins. This will

ORANGE CARE. - Au orange short cake stores of canned fruit are rapidly dimintablespoonfuls of butter, two small teacold water and do not make it a stiff dough. Bake in one cake, split open and spread slices of orange over it, scatter powdered suger over, and cut in equares, and serve with pudding sauce.

COOKED SPINACH makes an excellent dish if cooked in this way: Wash in several waters, boil till tender, then rub it through a colander. Put a lump of butter in the frying pan, and then put the spinach in; salt it well. When it is very hot add two or three tablespoonfuls of cream. Spread on buttered toast, cut in thin elicos, or serve as a garnish with fowls or spring

THE FLAVOR OF ROAST BEEF.-It is a good plan to vary the manner in which you flavor the roast of beef; this can be done by squeezing the juice of half a lemon over it, and putting the other half inside the roast. Another way is to put half of a carrot, one small onion and a little parsley into the dripping pan and lay the roast over it. Do not be lead by any bad adviser to put one drop of water in your dripping pan until you have tried the experiment of roasting beef in this way. It makes a striking difference in the flavor of the meat. The outside browns quickly, the juice is all kept within, and the meat is tender in consequence of this.

#### FANOY AND USEFUL AS WELL.

#### Lace Tidles.

The lace tidies with deep, scalloped edges are made to look like veritable butterflies by tying them very tight in the centre with a ribbon bo s, the two ends of which project slightly, and spreading the sides of the tidy like wings. They require much pinning in places, but look pretty.

#### & Wall-Pocket.

Very handsome wall-pockets to hold papers are made of plush. Two boards are required for this. The one intended for the back must be a size larger than for the front. Gilt-head nails may be put in at the sides, or rings of brass, and the boards be held together by ribbons laced back and forth.

#### To Make a Pretty Portfolio

Take the covers of an old book; line with crimson silesia. For the outside take black satin; paint or embroider some pretty design on each side, and cover your book. Finish the edge with a silk cord, and fasten bows of ribbon at each corner, with other ribbons with which to suspend it.

#### Ornamental Work-Basket.

A tasteful scrap-receiver, or work-basket, that will be quite ornamental in a corner, is made of a clean, new peach backet, stained in oak, or left in its natural color and coated with brown varnish. Wide ribbon is interlaced through the slate, row after row, filling the space from the bottom to top, both of which are decorated with a full ruche of the ribbon or silk to match. A less expensive mode is to substitute felt for the ribbon, pinking the edges of the bands, and making the ruching very full. If for a work-basket, then line it with silk or silesis, and furnish it with pockets to hold thread and sewing





#### APIARY.

## OFFICERS OF THE ONTARIO. BKE-KENPERS ASSOCIATION.

Precident, Mr. B. Corneil, Lindsay; lat Vice-Precident, J. B. Hall, Woodstock; 2nd Vice-Precident, Dr. Thom. Streetaville: Secretary-Tresaurs, Mr. Jacob Spence, Toronto.

Executive Committee-M. Ramer. Colar Grove; D. Chalmers, Musaelburg; C. Mitchell, Listowell; B. Davidson, Uxbridge; W. E. Wells Phillipstown.

Phillipstown.
Communications on the business of the description, and bee-keepers' department of the Canadian Fannian to be addressed to the Secretary-Treasurer. 21 Parliament ht. Toronto.

## MY BEE BOOK.

#### WM. COTTAM, M. A, LONDON.

The sting of a bee is very curious. It is a hollow tube, within which is a sheath, or two sharp barbed or bearded spears, somewhat like the barbs of fish-hooks. These spears in the sheath lie, one with its point a little before that of the other; one is first darted into the flesh, which being fixed by means of its foremost barb, the other strikes in too; and so they alternately pierce deeper until the sheath follows, so that the poison is conveyed int the wound. When the barbs or beards are thus lodged deep in the flesh, the bees leave their stings behind them, not being able to withdraw their spears into their scabbards and the ben looseth his life within an hour after he looseth his sting, and some within tenminutes.

With respect to the poison which is left in the wound, from more than thirty years' experience I have the greatest reason to believe that the sting of one bac serves to mollify, prevent swelling, and, in effect, cure the sting of another. Innumerable instances have I known, which have confirmed me in my belief; two or three, I will set down here for the reader's information, which, I think, may serve for the whole.

In the year 1761, my brother John who was then a child in coats, went into my father's beo-garden, where a hive of bees lay out very big; the child having a stick in his hand hooked down part of the bunch, when the bees immediately fell on the child and for want of thought he made no attempt to run from them but stood still, crying vehemently. At that time I was at work in my father's chamber, and, calling to my mother-in-law to know what the child cried so violently for, she ran to see, and no sooner came into the garden, than I heard her exclaim so loudly that I could not hear the child's cry. I ran as quick as possible into the garden, and saw the mother running about and grasping the child in her arms, endeavoring to save him from the furlous bees. On seeing me she cried out, "The child is stung to death," and as she also was stung very much, so I did not escape being stung in several places, only in takis the child from its mother and running with it into the house. Many bees followed us into the house; and up and down the glass of the window, on the outside, in less than half a minute. I found several bees entangled in the child's hair, and to prevent them stinging him, I pulled them out in a hurry, bees and hair togother.

from the bees, my next work was to pluck out the stings that were to be found more or les from head to foot; but all over the head they greatly abounded. Several I pulled out of the tongue, and thirteen out, and off one of the cars. Immediately applying to Mr. Robert Grimsteed, apothecary, for advice, he said he could not tell what could be done, unless I was to anoint him all over with sweet oil. This I did, as fast as possible; but I believe it did the child beither good nor harm. The effect of this disaster was that he looked pale and appeared sick, but there was not the least sign of any swelling. Soon after this he fed asleep and lay sleeping in his mother's arms; and about ten o'clock that evening, to the great joy and surprise of his weeping parents, he opened his eyes, and appeared perfectly recovered. We all went to rest for the night, and not a single complaint was heard afterwards.

From hence, I take the opportunity of observing, that if I am stung by a bee on the face I generally swell almost blind; if on the back part of the hand, the awelling ascends to the tops of my fingers. But if I am stung by two or more bees the swelling is very little or none at all. I would not, of choice, be stung by them, if it can be avoided, but after I have been stung once, I have no objection to being stung twice; and after I have been stung twice or three times, I do not mind if I am stung fifty or a hundred times.

Some, no doubt, will be ready to say that what I here assert is very unreasonable. It may appear so to those who have not proved it, but if I did not know it to to a matter of fact, I would not relate it. How often have I ascended on a tree of such height that my head would not suffer me to look down, and I have been obliged to take a rope and tie myself on to the tree for fear of falling; how often have I then, stripped naked to the waist, put my arm into the tree, among the bees up to the shoulder, and pulled them out by handfuls, in the sight of numbers of spectators.

But, as a further proof of the above, in 1780, in taking out an old stock of bees for Thomas Homer, Eq., in Mills Park, I was stung to such a degree that my firsh was as tender as if cut with lancets, without any appearance of swelling; and as I had to use the bees in the garden, (which lay out very big) I went the next day to do it, and I felt such a fear of being stung again, auch as I had never feit before, for upwards of thirty years. This was observed by Mr. Forbes the gardener, who told me that I was more afraid of the bees than he was, which, I believe at that time was true; but, as Mr. Forbes was a stronger to what I then felt, it is not improbable that had he been stung but half so much as I was the day before, he would have been afraid ever to go into a bee garden any more. However, as I expected no pay unless my work was completely done, I raised them up and was again stung from head to feet. But what was my surprise when I found the fresh stings to be of very great service; the pain I felt was removed almost instantaneously, and the tenderness in the flesh very soon passed off. On the third day I made new backles and plastered the bees round to the satisfaction of my employer; aud in doing so I was again stung very much, but the stings had not the slightest effect on mo, and I felt nothing of them, only when pricked by them.

Another proof I shall mention was in As [soon as I had extricated the child 1753, in taking a swarm out of a tree for a wait upon Hon. A. M. Ross to request that as agent among her neighbors.

farmer, Luke Ashman, of Leigh or Men- to Bareau of Agriculture and Statistics my finger e. He told me they were out of P. C. D. mp es, Treaton. number. I then asked him if he thought more than twice thirty. I must observe least appearance of being stung at the first; but for days after, black a; 'ts appeared in the skip. Upon another of my fingers, I was stung by a single bee, which made it swell greatly, and it was very tender for several days after.

Another proof I met with in the year 1784, which is the last I intend at this time to mention. It was on the 19th of May, in taking a swarm of bees out of a high elm tree, for Mr. Jas. Fussell, of Welle, when I was stung on my fingers and on the back of my right hand, in over twenty places. On this hand there was not the least appearance of swelling and very little tenderness; but on my left hand which was accidently stung by one single bee, the the sting of this one bee caused my arm to swell up to such a degree, that I could not without some difficulty, take my coat off in the evening. The next morning I had greater difficulty in putting it on, and my arm was very tender for some days after. From these circumstances I formed a resolution never to be stung by ond bee alone, unless another cannot be had.

### ONTARIO BEE-REEPERS' ASSOUL-

A meeting of the Ontario Bec-keepers' Assciation was held at the City Hall, Toronto, on July 3rd. The following gentlemen were in attendance :-- Messry. S. Cornell, Lindsay, President; J. Hall, Woodstock, 1st Vice-President; Dr. Thom, Streetsville, 2nd Vice-President; Jacob Spence, Secretary-Treasurer; and Messrs. D. A. Jones, B. Chalmers, C. Mitchell, Patterson, Walker, Losce, Baxter, Pellot, Webster, and others. The President explained that the objects of the meeting were :- First, to obtain necessary legislation to protect the bee industry against the dangers of foul brood. A letter addressed to Dr. Thom was read by the President, showing the dangers to the interests of the association generally growing out of the attempt of incompetent persons to conduct apiaries. Reference was made to the interview between members of the Ontario Government and a deputation from the association in reference to the deaired legislation in which the Government requested that the association supply statistics showing the extent of the bec-keeping industry, and,

THE GROUNDS OF ITS CLAIM.

to Government aid. During the discussion a number of opinions were advanced in favor of the union of the association with the Oatario Fruit Growers' Association, but no forma! action was taken in this connection. Considerable time was occupied in the discussion of the best methods of collecting the required statistice. Finally Messrs. S. Cornell, D. A. Jones and Dr. Thom were appointed to

dip. After I had handed out the greatest take charge of the matter, and procure part of the bess without flading the queen, the information in competion with one of I was obliged to search overy small hole, the season's crop reports. The association, there my hand would not go with my forefinger. By this means the finger was Industal Fair, made the fellowing nountstung to such a degree, that William Tupp | nations for judges for the honey and apiwho attended mo, did often take out of it are department at the approaching Toronthree stings at a time. When he had done to Exhibition: -Dr. Thom. Street-willow I saked how many stings he thought he S. T. Pettit, B lanent; D Caralmers, Mashad taken from the top to the first joint of selburg; C. K. Touch, Newmarket; and

Mr. D. A. Jones was heard by the noohe had taken out thirty? "Yes," said he, ciation with reference to the proposed Foul Brood Act. He thought experts that this finger felt a little numbed, but should be a pointed, whose duty it would not very tender or swelled, nor had it they be, when so requested, to examine sup-

#### DISEASED HONEY.

He thought it would be a good idea to have diagrams and full descriptions of the various stages of the disease propared. Ho belived the only danger of spreading foul broad was in the bees carrying it from hive to hive. Specimens of disease comb might be easely sent to experts by mail. A live healthy broad would hatch out in a diseased colony.

Dr. Thom called attention to the necessity for the proper inspection of imported beer, and Mr. Jones claimed this matter as urgently requiring attention as the inspection of imported cattle. Mr. Jones, in reply to a question, also expressed the opinion that the present season would prove a favorable one for bec-keepers.

#### AN OLD BOOK.

ED. CANADIAN FARMER.-When Mr. Langetroth was here at list year's convention, being much interested in a very old bee book he had with him, a person took some extracts, intending afterwards to prepare for insertion in CANADIAN FARMER, having already waited too long for this purpose. These in the rough are enclosed; if editor can make out to use them, then they are some exceedingly interesting portious, or perhaps the whole would be interesting if they are make-out-able. J. S.

#### MR. CORNELIUS SMITH'S APIARY.

ED. CANADIAN PARMER.-I inclose you a few statements of my failures and prospects for the last winter, and this spring so far. I commenced the winter of '83 with 61 colonies, and I brought 35 through, which are doing well. Tuesu commenced swarming on the 14th of June, and I have now got twenty-three of an increase. I have extracted up to date, four hundred and eighty pounds of honey. White clover is in full bloom; weather very dry. Last was very warm—about 900 in the shade. I winter my bees in chaff bives on summer stands, without any other protection. I might have extracted much more, but I have on an Lumber of section boxes for comb honey. The bees among the small bee keepers suffered in wintering; I think about 50 to 75 per cent, of them perished. Among practical men wintering. has been a success. I don't hear of any "foul brood" this summer around here. I have seen only one case of it in this Cornelius Smith. county.

M18, E. H. Perkins, Creek Centre, Warren Co. N. Y, wifes: She has been troubled with asthma for four years, hadto sit up night after night with it, Sho has taken two battles of Dr. Thomas' Ecteetric Oil, and is perfectly cured. She strongly recommends it, and wishes to act

#### PARMand GARDEN.

TRE GREAT BENRY WARD BERCHER AS A FARMER.

The following is Mark Twain's article on Beccher's farming .

Mr. Beecher's form consists of ninety ucres, and is carried on on strict scientific principles. He never puts in any part of a crop without consulting his book. He plows, and reaps, and digs, and soys according to the authorties and the authorities co-t more than the other farming implements do. As soon as the library is complete the farm will begin to be a profitable investment. But book farm ing has its drawbacks. Upon one occasion, when it seemed morally certain that the hay ought to be cut, the hay book could not be found-and before it was found it was too late and the bay was all spoiled. Mr. Beccher raises some of the finest e ops of wheat in the country, but the unfavorable difference between the cost of producing it and its market value after it is porduced has interfered considerably with its success as a commercial enterprise, Ilis special weakness is logs, however. He considers hogs the best game a farm produces. He buys the original pig for \$1.50. and feeds him \$40 worth of corn, and then sells him for about \$9. This is the only crop he ever makes my money on. He loses on the corn, but he makes \$7.59 on the hog. He does not mind this because he never expects to make anything on corn. any way. And any way it turns out, he has the excitement of raising the hog anyhow, whether he gets the worth of him or His strawberries would be a comfortable success if the robins would eat turnips, but they won't, and hence the difficulty.

One of Mr. Beccher's most harassing difficulties in his farming operations comes of the close resemblance of different sorts of seeds and plants to each other. Two years ago his far-sightedness warned him that there was going to be a great scarcity of wateruclons, and therefore he put in a crop of twenty-seven acres of that fruit. But when they came up they turned out to be pumpkins, and a dead loss was the consequence. Sometimes a portion of his crop goes into the ground the most promising aweet potatoes, and comes up the infernalest carrots-though I never have heard him express it in just that way. When he bought his farm he found one egg in every hen's nest on the place. He said that here was just the reason why so runny farmers failed—they scattered their forces too much-concentration was the idea. So he gather those eggs together and put them all u er one experienced old hen. That hen roosted over that contract night and day for eleven weeks, under the anxious personal supervision of Mr. Beecher himself, but she could not "punse" those eggs. Why? Because they were those infamous porcelain things which are used by ingenious and frauduleut farmers as nest-eggs. But perhaps Mr. Beecher's most disastrous experience was the time he tried to raise an immense crop of dried apples. He planted \$1,500 worth, but never a one of them sprouted. He has never been able to understand what was the matter with those apples.

Mr. Beecher's farm is not a triumph. To would be easier on him if he worked it on shares with some one; but he can not find anybody who is willing to stand half the expense, and not many that are able. Still, persistence in any case is bound to succeed. He was a very inferior farmer when he first began, but prolonged and unflinching

had its effect at last, and he is now fast done without delay. It is advisable to they are notes well-shaped. So this year, rising from affluence to poverty."

IMr. Henry Ward beccher's farm is on the Hudson River. It is tilled under his directions and is said not to be a financial success. - Ed. Farmer.)

#### THE CROPS IN MANITOBA

The following facts regarding the crops of Manitobs, we glean from the crop report of Acton Burrows, Dept. Minister of Ag.iculture :

Seeding time was favorable and throughout the whole Province the season is fully ten days ahead of last year. A great deal of plowing was done last autumin. In the 355 townships heard from this autumn, plowing amounted to 167,163 acres, out of 309,010 acres under cultivation.

Winter wheat has had but limited trial only,31 acres being reported. The principal reason given for this is, that spring wheat yields so largely and is so successful that furmers do not feel disposed to run any risk from the uncertainties attending winter grain. The prevalence of prairie fires is also mentioned as a reason for not sowing 1t.

With few exceptions correspondents of the Department speak flatteringly of the spring wheat prospects. The total area in spring wheat in 328 townships is 247,306 acres, an increase of nearly 40,000 acres over 1883. Seeding began April 24, and ended May 17. The average amount of seed used was one and four-fifths (1.80) bushels per acre, or 1 bushel and 25½ quarts, or 108 lbs. Red Fyfe is the principal variety sown, though some townships report small amounts of Fyfe, White Fyfe, Lost Nation, Red Chaff, etc.

Owing to the untatisfactory condition of the markets and the want of railway facilities, about 40 per cent less oats have been sown there than last year. In some localities dry weather in May damaged the crop. Barley suffered from the same cause, and this is a deficit of about one-third in the acreage. There is also a falling off in the areas to flax, potatoes, and field roots.

Tree planting is becoming very general in the prairie districts. Arrangements have been made for an Arbor Day next year .--- Noxious weeds are gaining a decidedly strong foothold in many place, and the Legislature has passed stringent laws relating to their destruction, and compelling municipal councils to appoin pathmasters who shall see to their enforcement.

Considerable summer fallowing is being done for the purpose of destroying the weeds. It is also found to make a more solid bottom on which to grow wheat and to render soils capable of longer retaining moisture. This is of special advantage in the usually dry month of May.

#### CULTURE OF FALL TURNIPS.

Turnips do best in a fairly rich and rather moist seil New soil is good if well prepared. When this kind of land is selected, it should be plowed early and allowed to lie until July, whem it should be plowed again, and harrowed until fine. Any soil is good for roots which is loose and loamy. The middle or last of July is the best time to sow the seed, but if the weather is unfavorable, later than this will do. I have sown turnip seed at late as the middle of August, and still raised a good crop; but generally I would prefer the last of July. I also find it better to sow after a rain than just before it. I have the ground all ready, so that when a assault upon his agricultural difficulties has favorable time comes, the work can be yield of tubers is always a little less, and well.

sow the seed mixed with earth or ashes. If sown just before a rain, the do not need to be covered, but if sown after, it would be a good plan to drag a brush over the patch. They need only a light covering to germinate.

I prefer rather a low place to high land, as they do much better in dry weather on rather moist soil. Like all other root crops, they are much better if they can be made to grow rapidly; they should be cusp and tender. If the growth is slow, they get strong and pithy. The turnip fly is the worst enemy of the crop, and a preventative should be used as soon as they make their appearance. I use "clug shot" for this purpose, and for radishes and cabbages. I find it as economical as anyas anything else I can procure.

N. J. Shepherd.

PLANTING POTATOES BY MACHINERY

It seemed to me last year that my potatoes were planted and cared for in the heat manner possible, and at the least cost consistent with good work. But some improvements have been made, I think, this year, both in planting and after culture. It never - amed possible to me that a machine could be made to drop one eye pieces of potatoes with anything like perfection, and so I expected to have to do that job by hand always, at considerable cost. But I have planted 24 acres of potatoes this year with a machine that marked out, opened the furrows, dropped the seed (cut to one eye) and covered it all in one operation. This was the Aspinwall potato planter, which I first heard of through advertising columns. Our man man and myself plowed and prevare the ground thoroughly, and planted to potatoes, besides doing other necessary farm work, and got through May 14, one day sooner than last year, when I had two more men and and a boy to help in the field. This is quite a saving in labor.

As far as the straightness of rows, depth of furrow and covering are concerned, the machine is near enough to perfection. It is also very simple, durable and easily managed. My machine shows no perceptible wear after doing my work. The dropping is not quite perfect, but it is far better than one would suppose could be done by machinery. I have seen potatoes dropped by hand much more unevenly; however a skilful hand could beat the machino in this respect. The makers assure me, after four years' trial, that the unevenness is not enough to make any material difference in the yield, and I am inclined to think so myself, after examining the rows carefully since they came up. However, this point can be best settled the fall after digging. Should the unevenness in dropping cause a loss of 3 per cent, in the yield, I think the machine has advantages that will more than overbalance this

When planting, we set the covers so as to make quite a ridge of earth over the rows. After planting, the ground was rolled, as it was quite dry, and pains were taken to have the horses walk between the rows, and not step on them except at the ends when turning around. Some experiments have convinced me that the yield of a bill is slightly injured by having a heavy homestop directly on it before it is upor afterwards either, for that matter. The tops grow just as well apparently, but the

by having the soil a little ridged over the rows, we have been able to see them and keep the horses between them while harrowing five times, except when turning-It was necessary to cross-harrow once, and then of course the horses stepped on the hills somewhat.

Another advantage of this ridge over the row, ank keeping the horses og it, was that the harrow took hold, and kept the words down, better in the rows. Weeds between the rows do no harm if they e-cape the harrow teeth, as the cultivator will take care of them, but if any are left: to grow in the row, in drill culture, they must be cradicated by using the hoc and tinners, where level culture is practiced. and this is expensive and unpleasant work. I should have hesitated to harrow the ground six times before the potatoes came up, as it was necessary to do to keep the weeds entirely down, unless the horses had walked between the rows, for fear the remedy would thave been worse than the disease. I do not think the trampling, in moderately dry weather, does any harm between the rows, where the ground is to be cultivated up loose again, but directly over the hills, where the potatoes are set, and where it cannot be cultivated up loose again, it is quite a different matter. The tubors must have mellow ground in which to expand, and not hard trampled ground. At least this is my theory to account for that which experience has shown to be a fact. T. B. TERRY, in American Cultivator.

#### Great Fatality.

The ravages of cholera infantum and summer complaints among children is truly alarming. The most reliable cure is Dr. Fowler's Wild Strawberry. Every bottle guaranteed to give satisfaction,

For the CANADIAN FARMER.

#### WEEDS.

Farmers should carefully inquire what weeds are local in the section whence they get their stock, as those who knowingly sell foul seeds are liable to heavy damages. When wild mustard, and dogweed, or oxeye daisy prevail, timothy seed should not be purchased. Rigweed and orange hawkweed, travel in clover seed. Where oxeye daisy oppears in any particular quantity, it will be the only safe way to plow the field as soon as the pest comes in bloom, and make a very fine summer fallow. If this pest once gets its seeds into the ground, it may take a generation to get rid of it. If mustard gets in, the only sure plan is to pull it as soon as it gets in bloom, and keep the plot in grass till all the seeds will have sprouted; for if ungerminated seeds get plowed down, they may lie in the land for years, and come into life when they are turned up again. Very much mischief has been done by careless buyers and importers. The only safe pla is for a few farmers in a neighborhood to select their best pieces of clean, newlyseeded grass land, and let the crops ripen for seco, and supply the neighborhood with a clean, guaranteed article which will be worth, and for which they should get a potter price than is paid for a bushel of screenings made up of the small weed trash of the country.

Now is the time to select pieces of timothy for seed which, if first crop will yield M. MCQUADE.

## HIS SOMBRE RIVALS.

**4** •

By EDWARD P. ROK

AUTHOR OF "BARRIERS DURNED AWAY,"

"OPENING A CHESTNUT DURR."

"WITHOUT A HOME," ETC.

"Now was my chance; and I reached up and seized the hand of a tall, burly

". What the divil du' ye want?' he cried, and in his mad excitement was about to thrust me through for a Con-

'Malt!' I thundered. The familiar word of command restrained him long

onough for me to secure his attention.

'Would you kill a Union man?'

"'Is it Union yo are? What yoz doin' here, thin, widout a uniform?'

"I showed him my badge of correspondent, and explained briefly."

"Strange as it may seem to you he

"Strango as it may seem to you, he nttered a loud, jolly laugh. 'Faix, and it's a writer ye are. Ye'll be apt to get some memmyrandums the day that ye'll carry about wid yo till ye die, and that may be in about a minnit. I'll shtop long enough to give yez a lift, or yez hoss, rather; and he seized poor Mayburn by the head. His excitement seemed to give him the strength of a giant, for in a moment I was released and stood erect.

"" Give me a musket,' I cried, 'and I'll stand by you.'
"" Bedad, help yerself,' he replied, pushing forward. 'There's plenty o' fellers lyin' aroun' that has no uso for them;' and he was lost in the confused

"All this took place in less time than it takes to describe it, for events at that juncture were almost as swift as buljuncture were almost as swift as bullets. Lame as I was, I hobbled around briskly, and soon secured a good musket with a supply of cartridges. As with the rest, my blood was up,—don't smile, Hilland: I had been pretty cool until the murderous discharge that killed my hors—and I was soon in the front line, firing with the rest.

"Evertal as I was I say that our

"Excited as I was, I saw that our position was desporate, for a heavy force of Confederates was swarming toforce of Confederates was swarming toward us. I looked around and saw that
part of our men were trying to drag off
the guns. This seemed the most important work; and discretion also
whispered that with my bruised foot I
should be captured in five minutes unless I was farther to the rear. So I
took a pull at a gun; but we had made
little progress before there was another
great surging wave from the other direction, and our forces were swept down
the hill again, I along with the regiments with which I had been acting
went all to pieces, and had no more organization than if they had been mixed
up by a whirlwind.

up by a whirlwind.
"I was becoming too lame to walk,

up by a whirlwind.

"I was becoming too lame to walk, and found myself in a scrious dilemma."

"Ha! ha!" laughed Hilland. "It was just becoming scrious, ch?"

"Well, I didn't realizo my lameness before; and as retreat was soon to be the order of the day, there was little prospect of my doing my share. As I was trying to extricate myself from the shattered regiments, I saw a riderless horse plunging toward me. To seize his bridle and climb into the saddle was the work of a moment; and I felt that, unlike McDowell, I was still master of the situation. Working my way out of the press and to our right, I saw that another charge for the guns by fresh troops was in progress. It seemed successful at first. The guns were retaken, but soon the same story was repeated, and a corresponding rush from the other side swept our men back.

"Would you believe it, this capture and recapture occurred soveral times. A single regiment even mould she for

and recapture occurred several times. A single regiment even would dash for-

back, and actuary drive the freeds back, only to lose a few moments later what they had gained. Nover was there braver fighting, nover worse tactics. The repeated successes of small bedies of troops proved that a compact battle line could have swept the ridge, and not only retaken the guns, but made them effective in the conflict. As it was, the two sides worried and tore each other like great dogs, governed merely by the impulse and instinct of fight. The batteries were the bone between them.

impulse and instinct of fight. The batteries were the bone between them.

"This senseics, wasteful struggle could not go on forever. That it lasted as long as it did speaks volumes in favor of the material of which our future soldiers are to be made. As I rede slowly from the line and scene of actual battle, of which I had had enough, I became disheartened. We had men in plenty,—there were thousands on every side,—but in what condition! There was no appearance of fear among the men I saw at about four p.m. (I can only guess the time, for my watch had stopped), but abundant evidence of false confidence and still more of the indifference of men who feel they have done all that should be required of them and all that should be required of them and are utterly fagged out. Multitudes, both officers and privates, were lying and lounging around waiting for their amrades to finish the ball.

"For instance, I would ask a man to what regiment he belonged, and he would tell me.

"' Where is it?'
"' Hanged if I know. Saw a lot of

"' Hanged if I know. Saw a for or the boys awhile ago.'
"Said an officer in answer to my in-quiries,' No; I don't know where the colonel is, and I don't care. After one of our charges we all adjourned like a town meeting. I'm played out; have been on my feet since one o'clock last night.'

"These instances were characteristic of the state of affairs in certain parts of the field that I visited. Plucky or conscientious fellows would join their comrades in the fight without caring what regiment they acted with; but the majority of the great, disorganized mass did what they pleased, after the manner of a country fair, crowding in all instances around places where water could be obtained. Great numbers had thrown away their canteens and provisions, as too heavy to carry in the heat, or as impediments in action. Officers and men were mixed up promiscu-These instances were characteristic heat, or as impediments in action. Offi-cers and men were mixed up promiseu-ously, hobnobbing and chaffing in a languid way, and talking over their ex-periences, as if they were neighbors at home. The must wonderfal part of it all was that they had no sense of their danger and of the destruction they were inviting by their unsoldierly course. "I tried to impress these dangers on one or two, but the reply was, 'O, hang it. The Rebs are as badly used up as we are. Don't you see things are grow.

wo are. Don't you see things are growing more quiet? Give us a rest!"
"By this time I had worked my way

"By this time I had worked my way well to my right, and was on a little eminence watching our line advance, wondering at the spirit with which the fight was still maintained. Indeed, I grew hopeful once more as I saw the good work that the regiments still intact were doing. There was much truth in the remark that the Rebels were used the poles where they had recovered.

were doing. There was much truth in the remark that the Rebels were used up also, unless they had reserves of which we knew nothing. At that time we had no idea that we had been fighting not only Beauregard, but also Johnson from the Shenandeah.

"My hope was exceedingly intensified by the appearance of a long line of troops emerging from the woods on our flank and rear, for I never dreamed that they could be other than our own reinforcements. Suddenly I caught sight of a flag which I had learned to know too well. The line halted a moment, muskets were levelled, and I found myself in a perfect storm of bullets. I assure you I made a rapid change of base, for when our line turned I should be between two fires. As it was, I was cut twice in this arm while galleping away. In a few moments a battery also opened upon our flank; and it became as certain as day that a large Confederated force from some quarter and been harded. certain as day that a large Confederate force from some quarter had been buried

upon the flank and rear or our exmusted The belief that Johnson's army had arrived spread like wild-fire. How absurd and crude it all seems now! Wo had been fighting. Johnson's army from

the first.

"All aggressive action on our part now ceased; and as if governed by one common impulse, the army began its

"Try to realize it. Our retirement was not ordered. There were thousands to whom no order could be given unless with a voice like a thunder peal. Indeed, with a voice like a thunder peal. Indeed, one may say the order was given by the thunder of that battery on our flank. It was heard throughout the field; and the army, acting as individuals or in detatehments, decided to leave. To show how utterly bereft of guidance, control and judgment were our forces, I have merely to say that each man started back by exactly the same route as he came, just as a horse would do, while right before them was the Warrenton Pike, a good, straight road direct to Centreville, which was distant but little over four miles.

"This disorganized, exhausted mob was as truly in just the fatal condition for the awful contagion we call 'panie' as it would have been from improper

as it would have been from improper food and other causes for some epidemic. The Greeks, who always had a reason for overything, ascribed the nameless dread, the sudden and unaccountable fear, which berefts men of manhood and reason, to the presence of a god. It is simply a latent human weakness, which reason, to the presence of a god. It is simply a latent human weakness, which certain conditions rarely fail to develop. They were all present at the close of that fatal day. I tell you frankly that I felt something of it myself, and at a time, too, when I knew I was not in the least immediate danger. To counteract it I turned and rode deliberately towards the enemy, and the emotion passed. I half believe, however, that if I had yielded, it would have carried me away like an attack of the plague. The moral of it all is, that the conditions of the disease should be guarded against. "When it became evident that the army was uncontrollable and was leaving the field, I pressed my way to the vicinity of McDowell to see what he would do. What could he de? I never saw a man so overwhelmed with astonishment and anger. Almost to the last I believe he expected to wan the day. He and his officers commanded, stormed, entreated. He might as well have tried to stop Niagara above the falls as that human tide. He sent orders in all directions for a general concentration at Centreville, and then

falls as that human tide. He sent orders in all directions for a general concentration at Centreville, and then with certain of his staff galloped away. I tried to follow, but was prevented by the interposing crowd.

"I then joined a detatchment of regulars and marines, who marched quietly in prompt obedience to orders; and we made our way through the surging waves. All the treatises on discipling that were over written would not have been so convincing as that little easis of organization. They marched very slowly,

been so convincing as that little easis of organization. They marched very slowly, and often halted to cover the retreat.

I had now seen enough on the farther bank of Bull Run, and resolved to push ahead as fast as my horse would walk to the eastern side. Moreover, my leg and wounds were becoming painful, and I was exceedingly weary. I naturally followed the route taken by Tyler and his command in coming upon and rehis command in coming upon and re-turning from the field, and crossed Bull Run some distance above the Stone Bridge. The way was so impeded by fugatives that my progress was slow, but when I at last reached the Warren-ton Turnpike and proceeded toward a wretched little stream called Cub Run, I wretched little stream called Cub Run, I witnessed a scene that defies description Throughout the entire day, and especially in the afternoon, vehicles of every description—supply waggons, ambulances, and the carriages of civilians—had been congregating in the Pike in the vicinity of Stene Bridge. When the news of the defeat reached this point, and the roar of cenneal and maskerry began to approach instead of recede, a general movement toward Centreville began. This soon degenerated into the

wildest panie, and the road was speedily choked by storming, cursing, terrorstricken men, who, in their furious heste, de ated their own efforts to escape. It was pitiful, it was shameful, to see amoulances full of the wounded shoved to one side and left by the covardly thieves who had galloped a ay on the horses. It was one long scene of wreek and rain, through which pressed a struggling, sweating, cursing pressed a struggling, sweating, cursing throng. Horses with their traces out, and carrying two and even three men, were urged on and over everybody that could not get out of the way. Everything was abandoned that would impede progress, and arms and property of all kinds were left as a rich harvest for the pursuing Confederates. Their cavalry hovering near, like hawks eager for the prey, made dashes here and there, as opportunity offered.

opportunity offered.

1 picked my way through the woods rather than take my chances in the road, and so my progress was slow. 10 make matters tenfold worse, I found when I reached the road leading to the north through the 'Big Woods,' that the head of the column that had come all the way around by Sudley's Ford, the route of the morning's march, was the way around by Sudley's Ford, the route of the morning's march, was mingling with the masses already thronging the Fike. The confusion, the selfish, remorseless scramble to get ahead, seemed as horrible as it could be; but imagine the condition of affairs when, on reaching the vicinity of Cub Run, we found that a Rebel batter; had opened upon the bridge, our only visible means of crossing. A few moments later, from a little eminence, I saw a shot take effect on a team of horses; and a heavy effect on a team of horses; and a heavy caisson was overturned directly in the centre of the bridge, barring all advance, while the mass of soldiers, civilians, and nondescript army followers, thus detained under fire, became perfectly wild with terror. The caisson was soon removed, and the throng rushed on.

"I had become so heart-sick, disgust.

"I had become so heart-sick, disgusted, and weary of the whole thing, that my one impulse was to reach Centreville, where I supposed we should make a stand. As I was on the north side of the Pike, I skirted up the stream with a number of others until we found a place where we could accumble across, and soon after we passed within a hri-gade of our troops that were thrown across the road to check the probable

across the road to check the probable pursuit of the enemy.

"On reaching Centreville, we found overything in the direct confusion. Colonel Miles, who commanded the reserves at that point, was unfit for the position, and had given orders that had imperilled the entire army. It was said that the troops which had come around by Sudley's Ford had lost all their guns at Cub Run; and the fingitives arriving were demoralized to the last degree. Indeed, a large part of the army, without waiting for orders or paying heed to any one, continued their flight toward Washington. Holding the bridle of my horse, I lay down near headquarters to reet and to learn what would be done. rest and to learn what would be done A council of war was held, and as the result we were soon on the retreat again. The retreat, or panic-stricken flight rather, had, in fact, never ceased on the part of most of those who had been in the main battle. That they could keep up this desperate tramp was a remarkable example of human endurance when sustained by excitement fear, or any strong emotion. The men who marched or fled on Sunday night had already been on their feet twenty-four hours, and the greater part of them had ex-perienced the terrific strain of actual

#### HORTICULTURE.

A correspondent of the Germantown Telegraph says that he has found salt a valuable remedy for rust on the blackberry vines, and concludes . "I have up plied two or three handfuls on the surface of the ground, in immediately over the roots, when the plants were badly rusted . in two or three weeks the disease had disappeared, and the plants has made a good growth. I believe moderate applications of salt, sowa brondcust over blackberry patch, would be of great benefit as a fertilizer and health renewer."

## THR A. B. C. OF STRANBERRY CUL.

The illustrious Beecher recently eaid that the world progresses more by learning what cannot be done then by putting in practice any brilliantly conceived idea. Therefore in giving these bits of experience I do so with the hope of enabling others to avoid the errors that I made myself, for I began with A at an early age, and if years of practice are to count I am now protty well along in the alphabet.

When asking information before I ever handled a strawberry plant, I was told to select poor, light, sandy soil as the best. I was told that fertilizers impaired the quality of the fruit and the plants would grow, and could be kept clean only on light land. Greater mistakes were never made, although the strawberry is such a good natured plant, it will take hold and make the best of things whenever placed (a most commendable disposition all will admit) yet it never pays to impose on good nature. It is true that plants can be more readily kept free of weeds on light soil, and this is the only bit of truth in the information I obtained. On the other hand the strawberry is an exceedingly gross feeder-a perfect gourmand so to speak and not particular as to diet; stable manure, ground bone, wood ashes, hen manure, night soil, hog manure. It will thrive on them all, though it prefers to everything clse cow manure, from its cool nature and abundance of nitrogen auc. one is not likely to give it too much.

The greater the amount of fertilizers given the plants the greater will be the yield and size of the fruit they will give in

Besides being a great feeder it is a deep drinker. By this I mean there are few fruit-bearing plants that require a greater supply of water, or suffer more from the lack of it. Therefore, the folly of planting on light, porous soil will readily be great benefit to the strawberry, which I will speak of more fully a little later.

I have said the strawberry is a gourmand, and very much disposed to drink. These are natural habits and not acquired ones, hence good, and advantage should be taken of them. Were it not for these propensities it would not seem possible for the plants to produce the enormous crops that it is possible to obtain. Therefore in preparing the soil, not only should it be well fertilized and well pulverized, but prepared deeply-a foot at least and as much further as you will—for the double purpose of placing in the soil a large supply of plant food and to induce the plants to thrust down long roots deep in the soil to obtain it, and thus to withstand drought with comparatively little injury. There are so many ways and dis-

tempt to describe none here, merely suggesting that the strawberry plant is one of the easiest to make live and to plant in a manner that will admit of casy culture. They look very pretty in narrow rows when first set out, but alas! the weeds and grass will appear, and like bad habits, they are of a ranker growth and must be kept down or they will suppress all the good. If the patch is of much extent it should be planted in a manner that will admit of horse cultivation by all means.

Well do I remember my first strawberry bed. The way I planted it I could cultivate only with the hoe and my fingers. How hot the weather! How long the days! How re-tlessly did the scorching sun blaze down upon me while pulling the weeds from among these plants.

It requires a good deal of moral courage to keep all of the runners cut off, but such must be done in order to have fine fruit. Although easily clipped off with a hoe, there is perhaps nothing in atrawberry culture so often neglected, both by experienced and inexperienced growers. The latter lack knowledge, the former too often lack courage to put their knowledge in practice. But the plants should be kept in hills or single rews at best, for an excess of plants has the same influence as weeds in a strawberry bed, diminishing both the size of the berries and the

In speaking of planting, I should have said the plant of the strawberry is one of the easiest to transplant if properly planted. A very common error (and one I made to perfection in setting my first bed) is to plant too deeply. The fact that plants of cabbage, tomatoes, and many garden vegetables live and thrive better if planted deeply, perhaps leads to this mistake; at any rate, if the crowns of strawberry plants are placed below the surface they will decompose and die. In planting, set the plants no deeper in the soil than when growing, or with the leaves even with the surface. The roots should be straightened and placed their full length in the soil, pressing it firmly on every side to prevent drying.

To be successful in strawberry growing, as with everything else, the cultivator must be forehanded, and especially is this the case in planting, which should be done as early in the spring as the frost is out and the soil in a condition to "work," or as early in the summer as the plants have become well rooted.

Do not expect to excel everybody else at the outset; too many entertain such seen. For this reason, also, is mulching of ideas and meet with such ignominious failures as to be ever after discouraged from making another attempt. In planting my first plants, no ordinary kinds would do for me; ob, no! and I planted wholly of the Nicanor, then a new variety selling at a high price; the result was that the crop was extraordinary only in its diminutive size in all its respects. I then planted Wilson and Agriculturist, and did 'astonish the natives" in every truth, both by the size of the berries and the yield.

Begin with the old, reliable sorts; it will be quite time enough to court the acquaintance of the frivolous bellies of the season—the novelties—when you have established friendship with the worthy matrons.

Let no one plant strawberries unless he will protect them in winter. Who would expect a cow to give a large yield of milk, tances practiced in planting that I will at- or a horse to look and travel well if left top a hole for ventilation can be covered it,

exposed to the inclemency of the weather? Oao might as well expect the best returns from his strawberry plants without protection. Not much is needed and most anything will do, for the strawberry is not at all fastidions; ealt mealow hay, haves, straw, chaff, or other loose light material is preferable, but shavings, pine receiles, tan bark, or corn stalks will answer. Evergreen boughs are excellent; but the best of all is stable manure, as the soluble pertions remain upon the surface and afford a nratection.

Not only does this so called mulch protect the plants from the cold and blighting winds of the winter, but keeps the ground cool and moist during pring and the fruiting season, keeping the fruit from the ground in a clean and sound condition. It should not be applied until the ground has become slightly frozen in autumn; but under no circumstances allow it all to remain to prove a smothering blanket to the plants when growth starts in spring. This will be the case unless a portion is removed so soon as the ground becomes thawed and settled in spring.

After that nothing remains to be done except wait a few weeks until strawberry time, and then -1 decan it unnecessary to explain what to do, even to a novice. -Green's Fruit Grower.

#### POULTRY.

For the Canadian Farmer THE CHICKS.

BY R. H. SEATH.

Reports from the chicken raisers throughout the country tell of good success this year with the hatching, and anticipate any quantity of magnificent poultry for the coming markets. Large numbers of amateur breeders got rather discouraged last year, and throw up the sponge on poultry-raising. Had they stuck to it and tried it again this year, no doubt success would have crowned their efforts. The nests this year are full of chicks, and, of course, the old grannies are accounting for it because of the lack of thunder storms, but it would be more correct to attribute it to a little extra care and attention. A great many people who want to raise poultry are exceedingly careful about getting good eggs, and, of course, that is commendable, but then they very often say after all that the eggs were rotten, and, of course, no chicks were forthcoming. that the fault of the eggs? We think not. The fact of the eggs being rotten tells a story that life existed there sometime, and no doubt that life was destroyed by the improvertreatment which the eggs received. On the whole, however, the season has been a good one, so far as hatching is concerned, but it is not nearly so good with regard to raising. The frequent cold nights, and frosts stunned the chickens, and demand that we must give them extra care. This pays in the end, and our poultry-raising friends should aco to it, that the wee chicks are comparatively as carefully put away as the children of the family. Both are young; both are tender; both must have extra care.

#### A GOOD CHICKEN COOP.

A good, light and durable chicken cood is made as follows :-- Make a frame for an "A" shaped coop, which is not a difficult work to do. Cover both sides with a single ply tar paper. Coat once with tar

with wire notting (a piece of an old sieve answering capitally), and slate may protect the entrance. The inside should be whitewashed, and the floor should be imarded. little smaller than the frame, so that the latter can slip down over it. By this means rats will be kept out. A board can be kept to cover the entrance opening at night.

For the Canadian Farmen.

#### POULTRY NOTES.

Let checkens be constantly supplied with fresh water.

When you feed rico mix it with other foods. Cook it before feeding.

The poultry house should be thoroughly cleaned and whitewashed inside.

Give your chickens milk; it is one of the most valuable foods they can receive.

Don't let chicks out too early in the morning, the wet grass will affect them injuriously.

The earlier you can get your chickens to market, the better will they pay. Remember this and feed them generously.

Don't feed constantly one food. Change the diet and thus consult their tastes occasionally. They will do better on it.

Chickens like suushine; but a very bot sun on a runmer day is injurious to them. They should have proper shade to go to.

Feed your chickens at stated hours. They have organs of digestion to be kept in proper order as well as their owners have.

Keep your chickens out of storms and they will thrive better. This is also a preventative for gapes, diarrhea and other ailmente.

If your hens look miserable don't be sure that they have no lice. Whitewash the poultry house and then dust it inside with insect powder; this will get into the cracks and crevices where the whitewash fails to penetrate. Better dust a iittle under the wings of each fowl. This plan of treatment will banish the lice.

When your fowls get Roup separate the sick bird from the rest at once and place it in a comfortable coop. The nostrile and beak must be washed clean with castile soap and tepid water, then inject into the nostrils with a small syringe, either from the outside or through the slits in the mouth, a solution of chlorate of potash. A good gargle is one of vinegar and salt slightly un med, to which may be added a half teaspoonful of alcohol or other liquor, use a small stick with a rag on top and swab the mouth and throat twice a day. Put about four drops of tineture of aconite in a half pint of the drinking water.

#### Young Men !-Read This.

THE VOLTAIC BELT Co., of Marshall Mich., offer to send their celebrated ELECTRO VOLTAIC BELT and other ELEC-TRIC APPLIANCES on trial for thirty days, to men (youg or old) afflicted with nervous debility, less of vitality and manhood, and all kindred troubles. Also for rheumatism, neuralgia, paralysis, and many other diseases. Complete restoration to health, vigor and manhood guvranteed No risk is incurred as thirty days trial is allowed. Write them au once for illustrated pampblet free.

Talma capes for summer mantles are made of loops of beads resting on chenille loops; these form the entire cape, to which and then sprinkle with sand. Near the is added a fringe of beads with chenille in

## Contributors, &c., to the "Can-adian Farmer."

HORTICULTURE. T. O. Robinson, Owen Sound.
O. L. Whitney, Lecturer Michigan State
Grange, Muskegon, Mich.
P. H. Hendorshot, Bertie Vineyards, Stevensville, Ont. POULTRY.

Geo Eillott,—a taker of eight prizes at the Provincial Poultry Show-Port Robinson Ont. APL/ BY.

D. A. Junes, of the freekeepers Association of Ontario. Boston Ont. R. McKnight, Bee-Keepers Association, Owen Bound.

MAPLE SYRUP, SUGAR, &C

Levi B. Whitman, an extensive manufactures Knowlton, Quebec.

GRAPH GULTURE.

Dr. Joy, Tilsonburg, Ont.

VETERINARY,

C. Elliott, V. S., St. Catharines, member
Ontario Veterinary College. GENERAL PARM SUBJECTS.

M.McQuade, Egmondville, Ont. 6. T. Pottit, Bolmont, Ont. E. S. Urood, Newport, N. S. George Creed, South Bawdon, N.S. ZADIME DEPARTMEN Mrs. S. H. Nelles, Grimsby, Ont

## The Canadian Farmer.

The Only Weekly Agricultural Paper in Canada.

Is published every Wednesday morning at Wolland Printing and Publishing House, laud, John Ferguson, M.P., sole proprietor.

WEDNESDAY, JULY 9, 1884.

#### WORK FOR US.

The circulation of the FARMER is every day greatly increasing, and the proprietors feel greatly encouraged in the work; but we are bound to increase the circulation during the next five months to fully twice the large number it already is. We publish the DEST, CHEAPEST and SPICIEST agricultural paper in Canada—the ONLY WEEKLY in the Dominion, and are receiving every day dezens of compliments and good wishes. Now friends, we are glad to have your good opinion, glad to receive your expressions of interest, and we shall be equally glad to secure your assistance. You can make money at it and can assist us to send our paper into every home in the country. You need not be afraid to recommend the Canadian Farmer. The improvement which has marked its pages the first for this seasons market. for the past few months will continue, until it is without a peer, as a farm and home paper. We don't want your work without paying for it, but will pay all to act as agents for us. Next week or the week following we will publish our list of premiums to all who will secure us subscribers. In the meantime we desire all to go to work for the FARMER. Remember, we will pay cash to our agents. Begin at once, by writing to us for blank forms, sample copies, rates, etc. Address the CANADIAN FARMER, Welland, Ont.

#### FAIRS TO BE HELD.

Industrial at Toronto, September 10th to 20tb.

Provincial at Ottawa, September 22nd to 27th.

This list will be made complete in future issues. Secretaries and others will means a great deal. confer a favor upon us by sending particulars as to their fairs, for publication in the CANADIAN FARMER.

#### INDUSTRIAL EXHIBITION.

In our notice of the Industrial Exhibibition two or three slight errors were made. The Exhibition will begin on the 10th of September and end on the 20th : and the railways will give return tick its at single fare instead of a fare and a third.

#### AGENTS.

We want agents for the FARMER in every county in Cauada. A liberal commission will be paid to good, live, reliable partica. The Farmer is increasing its circulation every day, and we intend to double its already large circulation in the coming six months.

Your assistence is solicited. For terms, etc, write to the CANADIAN FARMER, Weland, Ont., Drawer A.

#### PROVINCIAL EXHIBITION.

The Provincial and Dominion Exhibibition, under the auspices of the Agriculture and Arts Association of Ontario, will take place this year at Ottowa during the five days from September 22nd to 27th. The prize list is an exceptionally good one, and the management have made extra efforts to have a show this year that will even surpass former efforts. Being held in the city of Ottawa, the capital of the Dominion, no doubt a very large number will regard it as an excellent opportunity to visit the seat of government.

The railways will issue railway tickets at single fare and thus all will be enabled to be present at the exhibition with very little cost. The Editor of the FARMER will be present and shall be most happy to meet there many of our weekly readers.

#### RAMBLES HERE AND THERE.

In the early part of June we visited the fruit farm of Mr. Morden, near Southend, Stamford Township, Welland County. We had expected to see a fine place nicely kept with a thisfty growth of nearly all kinds of small fruits in very great variety, and we were not disappointed. The farm has evidently been carefully prepared and tilled for some years, and presents a beautiful homelike appearance. Strawberries were ripening, and pickers were gathering

Mr. Morden has tried nearly all varieties and considers the Crescent seedling one of the most profitable berries for marketing. Although Mr. Morden courteously showed us his fine plantations of raspberry, blackberry, gooseberry and other small fruits, and interested us with the knowledge he has gained of the value of the various varieties, we did not make note of or attempt to gather his remarks, hoping in the near future to have his experience from his own pen on their cultivation. We were shown what to us was a new variety of current, called the Raby Castle. The foliage of it resembles that of the black, and is retained by the bush during the entire summer, consequently protecting the fruit and aiding in ripening it full flavor. The growth of wood is very rapid, fully equal to that of the majority of black currents. The berry when ripened or matured is but little larger than the Red Dutch, and not much better in quality, but as the Red Dutch has few superiors, a little

The Raby Castle is an immense bearer, in fact has few equals, and has so won upon Mr. Morden that he considers it the place than she now takes.

best and most profitable current for marketing, and is planting it in preference to all others. The Raby Castle is an Luglish variety, entirely new to us.

#### FROM OUR COLUMNS.

We are pleased at all times to Lava our contemporaries select some of our excellent articles on farm and kindred aubjects for use in their columns, but we would be much obliged if credit were given the CANADIAN FARMER for the same. Every wook the FARMER supplies for its readers a rich variety of readings, among which is a large amount secured at considerable pains and expense, especially for our columns. We are glad to know that such is highly appreciated, not only among our readers, but also among our exchanges. We invite all to partake, but ask that credit be given us.

#### EUROPEAN CROP PROSPECTS.

In England the weather has been reversed; instead of being too wet, as usual, it has been too dry, and excessively warm up to the last of May, when it set in cold again. Grass and barley suffered most, and the former will be a very short crop. In Scotland prospects are just fair. Wheat was growing finely, potatoes promised well, and barley improving. The footand-mouth disease is reduced to the lowest point for years, and cattle generally are in good condition. In France the general prospect was good. Cereals promised a medium crop. The Government has decided to introduce a bill into the Chamber of Deputies, more than doubling the duty on foreign flour-from 82 cents to 74 cents -and also doubling the duty on cattle and sheep. The land assessed in France embraces 123,036,873 acres, valued at \$144.08 per acre.

Advices from all over Germany represent a cheering prospect for the year's crops. The weather has been excellent, and vegetation is everywhere vigorous and healthy. Dry weather in Russia, in the Odessa district, and the want of snow covering last winter bave injured the wheat crop. The Russian Government has decided to increase the duty on foreign agricultural machiaery. In Italy, Holland and Belgium prospects are good, but heavy rains in Spain done considerable

Advices from England up to June 23 represent the weather as still dry. The Mark Lane Express of that date says it is impossible, yet, to estimate the result of the wheat harvest. "Broadly speaking, the weather has favored the strongest and most forward wheats and prejudiced other growing crops. Present indications tend to making the best bester and the indifferent worse."

#### CANADA AHEAD.

It is no new thing for Canada to best her rivals in the production of fine quality cereals. At the industrial exhibition now being held in Amsterdam she has received the gold medal for the best wheat, oats, barley, etc., on show. This is indeed an honor since she came in competition with almost every cereal producing country in the world. Of course these and their level best and sent their best camples. Canada did the same, and has come off victorious. This is another evidence that ours is one of the greatest agricultural countries beneath the sun. With the high state of cultivation in which the land of some of her competitors has been placed, the Dominion of Canada would take an infinitely higher PRESIDENT MILLS AND THE CAN-ADIAN FARMER.

In his address at the closing exercises of the Agricultural College, President James Mills spoke plainly and sensibly upon some points of defect in our educational system against which the FARMER has directed its columns at various times during the past few months. Mr. Mills recognizes, as we have repeatedly urged, that the manuer in which the young men of the Province of Ontario are being educated is in itself a force to lead them from the farm and into the professions of the merchantile house or the work shop. The main incentive held out to boys at school is the hope of passing some examination into some particular calling other than farming. Pupils are first urged to try the entrance examination into high schools. After a certain amount of exclusive training they are possessed of enough book knowledge to pass the required examination and as soon as they get there the glories of a University course or a professional studentship ure neld before them until they come to believe that such are the only true ends of youthful education. Not a word is said to them to encourage them to become intelligent for the sake of the benefit and pleasure it bestows; and not a single effort is made to educate them so that every day they may be learning something which may be of real bot clit to them in after life. We defy any man to say that the system of education as at present used, does not lead boys and young men to look down upon labor. Further and worse than that it favours indolence.

Mr. Mills is right when he says "the high schools are first-class schools, but they educate men for the professions - not the farms." We have on different occasions called attention to the fact that the so-called higher education dispensed at the high schools was, so far as the masses are concerned, chiefly a myth; and Mr. Mills is just as correct when he says "and if a farm boy did enter them he would be gradually led to change his mind and seek some other occupation." This is a deplorable fact and yet it is a fact. There is nothing in the public school system to entice a boy to become an agriculturist, and there is everything in the high school system to lead him to not be one. The farmers of the country are really supporting a set of institutions that are in reality destroying the prospects of numbers of the young men by tilling them with a desire to leave the farm and to enter some other and more fancy entployment.

We have referred at length on various occasions to the necessity of teachers being prepared to teach agriculture by a course in it at the Normal School, or at the Agricultural School. Mr. Mills also advanced the came idea. There is no use putting the subject of agriculture on the list of studies if it is to remain there a dead letter, as it certainly would remain, with-teachers asignorant upon it as the large majority of them are at present. Let every teacher before graduating be compelled to pass a thorough examination in such branches as can with benefit be taught in the public schools; and let no teacher be engaged in a rural school who cannot present a special certificate of fitness for the post. When this is done benefit will be derived from the placing of agriculture upon the public school curriculum.

Another strong point urged is this: That there should be fewer high schools, and that

in the place of those abolished there should be established district agricultural schools. The idea is a capital one. We could easily get along with two-thirds of the high schools we have at present and that would allow of the cetablishment of a large number of such agricultural school throughout the various parts of the province for the better education practically by farmer's sor v. If this were done farmers would get much more real value for their money.

We shall refer to this matter again and speak particularly of these district agricultural colleges in Europe,

#### RECFIVED.

Vick's Ploral Guide is as instructive and interesting as ever. Its front plate is a marvel of boauty.

Our thanks are due the Nebraska Board of Agriculture for a prize list of the State fair, accompanied by complimentary tickets to the same. We trust it may be a great success.

We are duly grateful to the management of the Zoological Gardens in Toronto for their kind remembrance of the Editor of the FARMER.

A couple of our readers have favored us with some excellent strawberries upon our editorial table. They have forgotten to send their names and we are therefore unable to thank them other than in this general way. When our friends send us any little delicacies by express, kindly let them send their names along with them, lhat we may give them due credit.

#### CORRESPONDENCE.

This page will be devoted to the exclusive day of correspondents. All of our readers are invi-ted to write upon subjects of interest to agricul-turists

#### SMALL BUT PROFITABLE

ED. CANADIAN FARMER .- A number of your correspondents have been urging the necessity of raising more stock throughout the country; but they seem to have limited the term stock to cattle and horses. Now, I agree with the idea that our system of farming must change as the country changes and as the markets change also; but, sir, I am convinced that in many other ways, than the raising of cattle and horses, must the farmer expect to make money. For taking of cattle and horses large farms are needed, pasture in large lots must be had, and hay must be preserved for winter feeding. These are easy matters for a large land owner, but to the man with a small farm the two wants are insurmountable difficulties, and hence he is compelled to turn his attention in other directions if he would become successful. There are many ways of money making open to the man with but a few acres of land if he has an intelligent acquaintance with his business and sufficient shrawdness and tact to protect him from the impositions which may be tried upon him. Among these I must class as being among the most profitable, both directly and indirectly, the raising of heg a The food to properly feed a very large number of hoge can be raised on a small piece of ground. Corn or roots yield, heavily to the acre is well tilled, and thus a large flock of swine may be fed and fattened, although their owner has but a very small farm. It must not be forgotten, either, that bog manure is among the most valuable of manures. It is concentrated and peculiarly fitted for the ing of the root crop and corn, gives the year through as hot weather as we

land an extra amount of cultivation, be- usually have, and through the coldeat aide a rest.

So that all things considered, I am persuaded that to the small land owner the raising of a large number of hogs would be a very profitable business. Another point in the favor of these animals is that they are, of course, prolific breeders, and hence one's stock will rapidly increase. But to make hog raising pay, as with anything elee, good animals must be kent. Let any intelligent man keep good hegs and feed well and they will pay. Yours,

R S. PERCINE.

#### HYGIKSIO.

KD CANADIAN FARMER.-I suppose that among the readers of your pages, are many who do not believe in eating meat or highly seasoned food of any kind. I am not much on fat pork in hot weather myself, although a little occasionally is palatable. It is undoubtedly a fact that we pay too little attention to the healthfulness of our diet, and do not make proper use of the different fruits. The farmer ought to arrange so as to have an abundance of all kinds of fruit in one form or another throughout the whole year. Fruit and vegetables are healthful and palatable, and ought to be need very freely. Let the farmers pay more attention to their culture. I have procured a little book pullished by Fowler & Wells, 753 Broadway, New York, entitled "The Hygienic Home Cook Book," that contains minute directions for cooking all vegetables and fruits in a hygiente manner; also bread; mushes, pies, puddings, sauces etc. It will be found an interesting and useful little volume, for the cook that wishes to prepare bealthful food for her family. Send 25 cents to the above address, and get it. F. H. D

#### IRON COLLARS.

ED. CANADIAN FARMER.-J. Mc. asks if you have tried iron collars, and from your reply to his enquiry I am persuaded you have not tried them, for you appear to me to be drawing largely upon your imagination. It is a very common thing to see articles written by parties (who are anxious to be heard from as well as to be seen in print) giving advice on farm and other topics, who seem to know very little about the subject on which they write, and I think farmers have learned (some by sad experience) to take such articles for what they are worth. But when we see an article with the editor's signature attached, we are inclined to take it for granted that it is correct, for we think he above all others should know whereof he affirms or asks through the columns of his paper for the experience of others. At the risk of exhausting your patience I will give you my experience with iron, or rather steel collars. I bought an aged horse a year ago last February that had a sore spot on his shoulder, which looked as if it caused him a great deal of suffering, and was as big as my three fingers. I had a leather collar closely fitted to him and a sweat pad underneath. All went well until hot weather and hard plowing came on and all at once his shoulders became so badly scalded that be tould not go on with the work. Tat once procured a steel collar and kept him at work picwing steadily, and in two weeks his shoulders were entirely cared, without any medical treatment except the first two days after I had put on the steel fertilization of worn out soils, and the rais- | wiler. I have used them now over a

Beck

weather we have had in twenty-five years to my certain knowledge, and not only that but the old bare spot is nearly grown over with hair, notwithstanding that I have subjected them to the most severe tests. namely, working on a horse-power threshing machine, j-rking stumps and logging. So I say to my brother farmers: don't be satisfied until you have tried them yourselves, and once fairly tried there is no danger of your laying them saids for leather collars unless your horse has an unusually peculiar shoulder." There is about one horse in fifty that they will not fit. Where the top of the neck is as thick as the bottom the steel collar will not fit unless some wider top can be had than I have. E. ANDERSON.

Port Dover, June 30, '84,

#### BIGH CLASS POBLTRY

EDITOR CANADIAN FARMER .-- We do wish to be understood to say that thoroughbred fowls will not more than pay expenses; but we do assert most emphatically that uniess the farmer has that love for fancy f wis that would induce him to keep them if they did only pay expenses, he is not a true fancier, consequently could not pay them that personal attention which is requisite to their welfare and consequently. his success. But with this prerequisite there is nothing to prevent even the farm laborer from becoming a successful fanci-

To begin, we would recommend the advice sometimes given by materfamilias. viz., get your cage before you do your bird. Have a clean, comfortable place for them, well ventilated, and have it so it can be made warm when desirable. Add to this plenty of light and you have all that is necessary. We do not approve of artificial warmth, for we believe that better birds can be raised without than with it, as it is next to impossible to use artificial heat, without getting too much of it at times, which is much worse than none at all, producing as it does colds, catarrh, and will lead to roup in the end. This done, the next point to consider is to procure stock to start with, and whether to buy eggs and batch them, or buy birds. With a fair hatch the former seems much the cheapest, but when, as is frequently the case, we only get one or two chicks from a dozen or thirteen eggs, and perhaps should there be more they may be all pullets or all cockerels, and should there be even a trio of good birds from the brood they are almost sure to be full brother and sister and you begin at once the injudicious system of inbreeding, which should only be practised under certain circumstances, and then the selections made by experienced breeders. On the other hand, should you buy birds it is all right to buy both male and female from one man, if he has two or more yards not related, and you have reason to believe he is giving you birds properly mated.

It is better if you are not sure of this to procure the male from one breeder and the female from another. Great care is necessary in mating. Birds should not be mated which have both the same defect, ss their progeny will be likely to have it in a greater degree than either parent. It is best to have a difference of a year in the ages of the male and female. We fancy that our best stock comes from two-yearold hens mated with a vigorous cockerel, other things being equal, while some breeders claim that a two-year-old cock mated with pullets produce the best birds. But though we have raised magnificent birds from cockerels and pullets, yet on neglected whilst in pasture.

the whole it is not advisable to mate thus. as the chicks will not be so uniformly good and the good ones will be the exception. More anon. HREEDER.

#### VITALITY OF WEED SEEDS.

How is the vitality of the seeds of our most common weeds, such as dock, sorrel, chickwood, shephord's purse, white daisy." etr., affected by the action of the digestive organs of animals? This inquiry was addressed to Prof. Maynard. He answers in a bulletin published by the Maccachusetts Experimental Station : Seeds were fed to a horse, and the refuse collected. Upon examination, it was found that unless the seeds were crushed they remained uninjured and germinated readily. The experiment was repeated several times with the same result.

This point settled, it becomes important to know how the same seeds are affected by the action of the compost heap, for while the farmer should not allow weed seeds to mature on his farm, such seeds do ripen, and it is necessary to provide means for their destruction. For this purpose a series of experiments were carried out, the result of which is that seeds are destroyed if exposed to a temperature of from 90° to 100° F. for from five to seven days in a moist compost heap. In a dry compost heap, where the temperature rups as high as the above, the seeds were found but little injured. The efficiency of this mode of destruction depends upon the maintenance of a continued high temperature and moisture, which will cause the seeds to either germinate and then decay, or to decay before germinating. The amount of moisture can be easily regulated, and by properly working over any pile of compret containing a large amount of organic matter the required amount of heat may be obtained. From the above experiments it would seem doubtful if the practice of keeping swine upon manure piles to cause alow decomposition is the best for manure containing weed seeds. It is also doubtful if the seeds of weeds, often put into the pens where pigs are kept, will will be dedestroyed by the action of the little heat there generated. It would probably be safer in both of the above care to compost the manure in large piles defore using it npon the land.

The white daisy has become so abundant in many of our meadows that it is important to know at what stage of its blooming the seeds become ripe enough to germinate. In other words, if this wood is out with the grass, are its seeds mature and dangerous? On this point Professor Maynard reports: After a series of careful examinations it has been decided that when the flower first reaches its full expansion few or no seeds are mature enough to germinate, but that it requires only a few days for these seeds to mature to full ripeness. In view of these facts it would not seem safe for the farmer to depend wholly upon the early stage of cutting, but to afterwards compost all manures made from fodder containing weeds of any kind.

Cattle turned out on the fields should not be entirely left to themselves. The more frequent visits are made to them more certain will the farmer be that nothing is going wrong with them. Cattle are liable to have trouble requiring attention in Summer no less than Winter. Yet whilet they are carefully attended to in the cattle season, they are by some almost wholly



#### RATES OF SUBSCRIPTION

Single Copies sont to any address in Canada or the United States, postinge pre-paid, \$2.50 per year. If paid strictly in advance the price will only be true Postar.

Themoney must accompany the subscription lemittances by P.O. Order or registered letter rill be at our risk.

EM -All communications, subscriptions and matters of business connected with this paper should be a diressed to Canadian Farmer, Drawer A., Welland.

Published by the Well at Printing and Publishing House, Join Ferguson, M. P., solo pub-

prietor.
All communications of a the Convident Farmer and Grands, Recommunication indices of to the Business Matager, Draw, e. 4, Wolland

#### THE ADVERTISING RATES Made known on application to this office.

#### DOMINION GRANGE OFFICERS.

| dated Roldingen tre elected Middlemarch M     |
|---|
| h. W. M. Donatsk, Pictors, N. S               |
| I. I vie Ower Sount                           |
| Heart Glendinning Marelly, Out Sec            |
| J P Bull, Downfield, Ont                      |
| J rso Trall, Canawa                           |
| T S Melcod, Dalston, Out 8                    |
| Charles Maffet Edgehill Out A S               |
| War Brock, Ade aide G. K                      |
| Mrs. Vancani all minauvilo Ceres              |
|   |
|   |
|   |
| M.s. McDonald, Picton, N S L. A. S            |
| Exact Tive Committee, - Robert Currie, d'ing- |
| ha v. Opt; A. Gifford, Meaf ad, int           |
| Audirona - R. Wilkie, Bienhelm, Ont; L.       |
| Vancamp, Bowmanville, Oat.                    |

#### OFFICERS OF PROV. GRANGE.

Alex. Ecryon Master, Ningara; A. Gifford, Secretary, Musford. NOVA SCOTIA.

Muster, A. B. Black, Amborst, N. S.; Sec., A. McQueen, Point de Bute, N. R. Executive Committee, N. P. Herger, Sackville, N. Bewpott, and W. P. George, Sackville, N. B.

#### Canadian Mutual Aid Association.

Wm. Rennie, Esq., Fresident, Toronto. W. Pemberton Page, Secretary, Toronto S. W. Hill, Mohibership Supt. Ridgeville.

Patroneanswering or in any way correspond-ing with those advertising in those columns will fill a us by saying they saw the advertisement a those columns.

#### TITE GRANGE.

Brother Patrons are requested to contribute for this column and to send their communi-cations direct to the office of publication, Wel-land, Out.

#### NATIONAL LECTURER.

he July Discussion

In Sabordicate. er of the National same goods? suggested by the Licha Grange, is as follows : t of tariff

Question 64.—Is the subject

getting to be understood?

Suggestions. - Patrons are deeply int. ested in the tariff question, and should study it well and understandingly.

Much has been said legislatively and politically on tariff for the past four years! But are we any nearer the a lution on the tariff problem, upon its merits, than we were when the agitation commenced?

The difficulty is, there is too much selfishness that probibits an impartial consideration of the subject upon its merits; self interest, political popularity and partixm ambition govern too much the leading agitation of the question.

Tariff, whether it be classed a burden or a blessing, should be equitably distributed upon the principles of justice. The regulation of the present tariff discriminates against agriculture, insamuch as it exacts heavier duties on importations that enter largely into agricultural supplier.

The question should be carefully cousidered upon its merits and from an unselfish and non-partisan standpoint.

Learn what kind of manufactured goods,

if any, require government protection to continue the manufacturing. If we find that some neer protection and others do not, we must then learn what should be free and what should the

If in If is recommend to protect American labor, so as to receive sufficient remuneration for services to enjoy the comforts of life, raise and educate their children into useful citizenship, instead of being forced into competition with the pauper labor of Europe, then tariff is right, for we must supply our millions with means of carning a livelihood.

If tariff does not add to the comfort of laborers, but to the profits of only well used capital, then tariff is wrong. While paid capital, then tariff is wrong. honest labor is worthy of encouragement and may need atimulating, capital may at the same time become over-greedy and require restrictions.

Tariff, whether for protection or revenue only, may be difficult to regulate with justice to all, but surely it can be done more in harn ony with justice and to the general welfare than any system yet proposed either in or out of Congress.

Extremes on either side of important questions are generally errors.

We must manufacture our own supplies as far as possible for us to do. We cannot afford to drain our country of its cash for foreign importation, neither can we afford, nor is it just to exact tariff on manufactured goods to gratify the greed of capital only. Justice and not selfishness must be the guide in the solution of this question.

The following questions present them selves for consideration in discussing the sul ject :

1. Would the repeal of a protective tariff discontinue or hinder the manufacturing interests of the country ?

2. What would be the effect in the markets on agricultural products, if manutacturing to any extent were discontinued

3. What would be the effect upon our monetary system by exporting our cash for foreign importations?

4. Would it be wise to prohibit the importation of such goods as we can manufecture at home, and remove the tariff from the same?

5 It is more necessary to protect labor in manufacturing than it is to protect it in Granges for July, as the production of the raw material for the

#### AGRICULTURAL COLLEGE.

#### Successful hindenis.

The closing exercises of the Agriculture I College took place on Thursday last. The following is the result of the exami-

nation: HOLL OF HONOR.

A gold meds, was presented to F. A. Carpenter by Mr. Re. 88, and silver medals to Musses. Herbet Slater and A. Lehmann. The following is the list of a coessful candidates:-

DIPLOMAS

P. C. Black, Windsor, N. S.; P. A. Carpenter, Collingwood; A. Lehmannn, Orillia; C. H. Major, Croydon, Eng.; P. C. Powys Eredericton, N. B. ; E. A. Saxton, Nantwich, Dog.; II. Slater, Taunton, Bag.; H. V. Tucker, Toronto; A. E. Waik, Wanstead : T. A. Wroughton, Bangalore, India; W. W. Stears, Ottawa, HOROUR CERTIFICATES FOR RASTER EX-

AMINATIONS—PIRST YEAR. Agriculture and Live Stock-J B Mac-Kay, Stellarton N S; T Raynor, Rose Hall; J B Mair, North Bruce.

Natural Science-J B MacKay, T Raynor, A L Ridings, Grafton; A Macpherson, | Sharmen.

Montreal, and J B Muir, equal; G C Butler, London, England.

Veterinary Science-J B Mackay. J B Muir, H L Ridings, T Raynor, G C Butler.

English Literature and Composition-T Raynor, H L Ridings, J Kemmis, Dublin, Ireland; G C Butler, J B Mackay, J R Muir.

Mathematics and Book-keeping-TRaynor, H L Ridings, J B MacKay.

SECUMD YEAR.

Agriculture and Live Stock-A W Ballantyne, Stratford; P A Carpenter, Collingwood.

Natural Science-P A Carpenter, H Slater, Taunton, Eng; A E Wark, Wanstead, (Lambton), Ont; P C Powys, Fredericton, N B; A W Ballantyne, A Lehmaon, Orillia-

Veterinary Science-P A Carpenter, A W Ballantyne and A Lehmann equal, H Slater, P.C. Powys.

English Literature and Political Economy-P A Carpenter, P C Powys, H V Tucker, Toronto.

Mathematics and Book-keeping-A Lehmann, l' A Carpenter.

HONOUR CERTIFICATES FOR MIDSUMMEN EXAMINATIONS.

First year.-Agricultural Live Stock Raynor, Muir, Ridings, D N McIntyre, Natural Science — Raynor, Mcl'herson, Muir, Ridings, McIntyre, W H Owen, Veterinary Science—Raynor, Muir, Ridings. R C Alexander, English Literature and Composition-Raynor, Mathematics Raynor, Ridings, Muir.

Second year.—Agriculture (theoretical and practical)-Wark, Carpenter, McKay. Horticulture-Carpenter, H Slater, Lehmann, Powys.

Natural Science - Slater, Carpenter, Lehmann.

Veterinary Science-Carpenter, Slater, Wark, McKay, Lehmaun.

English Literature-Carpenter, Slater, Powys Butler.

Mathematics-Carpenter, Lehmann and L'owys equal, Blater, Wark.

SPECIAL LIVE STOCK AND VETERINARY CLASS -- CERTIFICATES.

C M Carlaw, Warkworth; E A Cowley. Windsor; H S Holcroft, Orillia; W W Hubbard, Burton, N B; C A Keil, Chatham, Ont; J McGregor, Colborne; H B Sharman, Stratford; G C Sharman, Stratford: F W Skaife, Montreal.

PRIZEMEN FOR EASTER EXAMINATIONS FIRST YEAR.

Agriculture and Live Stock-J B Mc-Kay. T Raynor.

Natural Science-J B McKay, T Raynor. Veterinary Science-J B McKay, J B Muir.

English Literature and Composition Raynor, H L Ridings.

Mathematics and Book-keeping-T Ray

nor, H L Ridings. General Proficiency T Raynor, J B

McKay, H L Ridings. SECOND YEAR.

Agriculture and Live Stock-A-W Ballantyne, P A Carpenter

Natural Science - P A Carpenter, H

Veterinary Science-P A Carpenter, and A W Bellestyne and A Lob n equal. English Literature and Political Econo

my-P A Carpenter and P C Powys equal; H V Today. Mathemetics and Bookkesping - Leh

ann, P.A Carpenter. General Proficiency--P A Carpenier, II

Slater, A Lehmann, SPECIAL LAVE STOCK AND VETERINARY CLASS

First Year Stadents-G Carlaw, G C

Second Year Students-H B Sharman, W W Hubbard.

Prof. Brown's specials prizes for arboriculture were awarded to Messrs. Mayor and Powis.

#### A PARMER'S GALA DAY.

Dominion Day was celebrated by the farmers of West Middlesz, by a grand picnic on the grounds of the agricultural society, at Strathroy. It is estimated that three or four thousand were present. After refreshments, games, etc., Mr. Wm. Cummings took the chair, and introduced a capital programme. Hon. John Carling. P. M. General, of Canada, Hon. Geo. W. Ross, Minister of Education, for Ontario, James Mill, principal of the Ontario Agricultural College, Guelph, and D. M. Camperon, M. P., for Middlesex, delivered addresses. It was a grand day's enjoyment and profit.

#### THE GRANGE BLEVATIS.

At the San Jose, Cal., picnic the other day, Sister L. Woohams said: In the homes of the Patrons of the present you will find evidence of culture and refinement equal to the city homes presided over by matrons and husbandmen whose practical thoughts and experiences have so enriched and ennobled their lives as to leave a halo of intellectual light surrounding their brow which in its serene boauty far exceeds the deskling light of diamonds, rare or costly gems. In these homes are children of all ages, beight, happy children, full of health and spirits, both brain and body active with enough good in them, if their forces are wisely nurtured and directed to be an honor and ornament to nome and society.

I say to you the principles which are taught in the Grange are refining, elevating and humanitarian; instil them into the minds of your young, plant the good seed of practical knowledge in the human mind and heart, that your memory may be kept fresh and green long after the weary body has returned to mother earth, and the spirit has been promoted to the higher Grange. Let us be earnest workers, that we may weave, into our web of life some golden strands of human endeavor, which we may lak upon in the higher life and feel that our first conscious existence was not wholly for selfish purposes, but to strengthen the claim of human sympathy and fraternal love.

There were many of us who could not well spare the time from our busy bome life to meet here to-day; but believing such gatherings to be the bright ones in life we laid saids our cares, feeling what we lost financially we gained in pleasures far better then gold.

#### PENCK PUSTS.

The item of fence poets is a considerable one among farmers who are building much fence, and very many of our renders bave doubtless been disappointed at the rapidity with which some of the poets that they have need have rotted in the ground. Iron posts have been used, lest are not popular and naturally enough every wide-awake farmer is on the look out for some means of preserving his posts. The Scientific American inserts the following recipe for that purpose: Take boiled lineved oil and btir in pulverized coal to the consistency of paint. Pat a coat of this over the timber before it is put in the ground. These who have tried the plan say that it will preserve posts fee an indefinitely long time. We have not tried, it but should like to bear from some of the readers of the CANADIAN PARMER upon the matter.

#### AMONG THE HERDS.

#### Transfers to June 20th, 1881.

B Bonny Lad [12036], by Commodore [9773], W H Pardo, of Buckhorn, sold to TR Smith, Romney.

C Mary Bell (Vol. 9), by Heir of Cranberry [5361], And. Newcomb, Blenheim, to C McGuigan, Buchhorn.

B King Alonzo 12035], by Viscount Barrington [10588], Lessra, O B Hall, Wright, to Hamilton Bror., Ottawa.

B' Fear-No-Foo [11697], by Dassyburn Duke, [6804], Wm Milliken, Hagerman's Corners, to Francis Bell, Avonton.

B Markham Dake [11698], by Dasyburn Duko [6804], Wm Milliken, Hagerman's Corners, to John Lenviz, Church

B Duke of Alian Park 2nd [11348] by Prince Albert [9111], Henry Brigham Allau Park, to D J Davies, Durham.

B Bismarck [12041], by Earl of Kinnoul [6536], Hay & Paton, New Lowell, to James Clark, Vespra.

B Royal Duke 2nd [12015], by Royal Duke [7794], R Wilkinson & Sons, Warwick, to Jas E Smith, Wanstead.

B Jack of Bervio [12046], by Young John O'Gaunt [9599], John Moore, Rockwook, to James Willson, Bervie.

B Sterling's Glory [12050], by Blau [11732], D Johnston, Campbellford, to John Wilcon, Sterling.

C Duchess of Newcastle 6th (Vol. 9), by Baron 2nd [6597], Jos Redmond, Peterboro, to D Johnston, Campbellford.

B Empire [12051], by Ned Hanlan [9010], M J Corkery, Thornhill, to James Robinson, Newtonbrook.

B Duke of Sydenham [12056], by King of Lambton [8784], Robt Auld, Warwick, to James Maidman, Forest.

B Norman by Chief [12059], by Prince Albert [9111], Jas Park, Durham, to Thos Fulton, Durham.

B Prince Albert [12063], by 5th Lord Red Rose [10178], T C Stark, Gananoque, to Jos G Haig, Gananoque.

B Duke of Southold [12064], by Prince John [7661], Geo F Lewis, Winons, to John Lyle, St. Thomas.

B Edward Blake [12067], by Knight of the Garter [8790]: Geo Bryce, Mohawk, to John Wright, Mohawk.

B Moulton Chief [12068], by British Prince [6676], Francis Docker, Byug, to A Barker, Dunnville.

B Halton [12072], by Emperor [8533], Henry Smith, Brisbane, to Jos Lomes, Waldemar.

B Imperial Prince [12071], by Emperer [8533], Henry Smith, Brisbane, to Enoch Price, Marshville.

B Edward Hanlan [12069], by Halton '7159], Henry Smith, Brisbane, to Stewart McCutcheon, Ospringe.

B Whitevale Chief [12074], by 2nd Dune of Pickering [8456], Wm Major & Son. Whitevale, to Alex Waddell, Claremont.

B Glanford Hero [12075], by Lorna [7393], Allan Young, Glanford, to John Calder, Carluke.

C Lulu [Vol. 9], by Prowler [11381]. John J Hindley, Barrie, to Jos Maishall,

C Adelmina (Vol. 9), by British Baron [8171], Edwin Grny, Freelton, to Jos Marshall, Jackson.

B Prince Charlie [12076], by Rose Duke [9273], Robt Akins, Nassagaweya, to Henry Daniels, Nassagaweya,

B Rosy Pro ce 5th [120 th], by 7th T. a.: of Oxford [75-6], Rubral Gibson, Oct ware, to Richard Briggs, Duncrings.

B Prince Tom [12088], by Rosy Prince T. Cumines.

5th [12680], Richard Briggs, Dunctief, to James Peters, Arva.

C Albina [Vol. 9], by Marquis of Lorne [7163], Jos Beatty, Perth, to Jas Maitland, Kilmarneck,

B Allandale [12090], by Count Springhill [4851], Jas Laidlaw, Clearwat r. Man, to Thos Young, Clearwater, Man,

B Waterloo Bar n [1208], by Waterloo Warder [10592], Jos. L. Newlese, Brampten, to Peter R. Dunbar, B Itannia.

B Automia Duke [12091] by Haltonian [7163], Wm Hari on, a , Misto', to Benj Tuck, Hamby

C Princess Louise (Vol. 9) by Prince Bloom (9129), Twos. Farnell, Vanatter, to

Is me Reid, Valander,
B Prince Imperial [12096], by Prince [9103], John Fletcher, Buckham, to Allan Maxwell, Alton.

C Star (Vol. 9), by North Star [5773] Jonas Gosnell, Highgate, to Within Huff man, Harwich Centre.

B Mountalu Hero [12099], by Sir Richard Booth [11358], Geo B. Bristow, Rob Roy, to Isaac Longhead, Southbampton

B Rea Bob [12101], by Emperor [7059], Jas Stocks, Columbus, to Thes Stones house, Br oklan,

B Prince Arthur [12103], by Prince [9103]. Alex McKinnon, Hillsburg, to John McLellan, Alton.

B Erin Chief [12102], by Prince [9103]. Alex McKinnon, Hillsburg, to Robert Henderson, Vannatta.

B Village Scargeant [4:098], by Butterfly's Athelstane [1719], G B Bristow, Rob Roy, to John Grierson, Ravenna. B Majer [12097, by Village Scargeaut

[12098], John Grierson, Ravenni, to James Free, Meaford.

#### A Wide Awake Druggist.

Mr. H. W. Hobson, is always wide awake Mr. H. W. Hobson, is always wide awake in his business, and spares no pains to secure the best of every article in his line. He has secured the agency for the celebrated Dr. King's New Discovery for consumption. The only certain cure knows for consumption, coughs, colds, hearseness, asthma, hay fever, bronchitis, or any affections of the throat and lungs. Sold on positive guarantee. Will give you a trial bottle free. Regular size \$1.00.

#### An Editor's Tributa

Theron P. Keator, Editor of Ft. Wayne, Ind., "Gazette" writes: "For the past five years have always used Dr. King's New years have always used Dr. King's New Discovery, for coughs of most severe character, as well as for those of a milder type. It never fails to effect a speedy cure. My friends to whom I have recommended it speak of it in same high terms. Having been cured by it of every cough I have had for five years, I consider it the only reliable and sure cure for coughs, coldy etc." Call at any drug store and get a free trial bottle. Large size \$1.00

#### A Romarkable Escape.

Mis. Mary A. Dailey, of Tunkbanuock, Pa, was afflicted for six years with asthma and bronchitis, during which time the best physicians could give no relief. Her life was despaired of, until last October she procured a bottle of Dr. King's New Discovery, when immediate relief was felt, and by continuing its use for a short time she was completely cured gaining in flesh sho was completely cured gaining in flesh 50 lbs in a few months.

Free trial bottles of this certain cure of

all throat and lung diseases at any drug store. Large size \$1.00.

#### Fluid Lightning.

There are but few that have never suf-There are but few that have never suf-iered from intolerable pain from tooth-ache, neuralgis, or like acute pains. To them such an intent relief as Flui-Lightning is an unfold pleasing in time of tribble. Note the age of andre medi-cina to be that for anys. One applied tion of Fluid Lightning cures. Sold a F. Camines

Prominent among the greatest medical discoverics, by the many cures it has affected, McGregor's Speedy Cure leads the van.
'al' ject to the minutest chemical analysis, has been found to contain none of those is has been found to contain none of those injurious ingredients characterizing the worthless specifies daily offered to the public. Every ingredient possesses a pecular acapitability to the various complaints for which it has been compounded, and its flicacy is being established by testimonials bourty received. We are therefore confident that we have a preparation which we dent that we have a preparation which we can offer to the public with the assurance that it will be found not only a relief but an absolute cure for dyspepsia, liver combinint, indigestion, constipation and impure blood. Free trial bottles at T. Cumines drug store.

#### A Firm Opinion.

The firm of Ormand & Walsh, druggists, of Peterboro, say Dr. Fowler's Wild Strawberry is one of the best standard medicines for summer complaints.

Nothing gives such beautiful colors as the Star Dyes.

How to Make Candy.—This book gives full directions to making all kinds of plain and fancy candy. The recipes for making caramels, chocolate drops, French mixed and all other kinds of candies contained in and all other kinds of candies contained in this book are the same as used by the leading city confectioners. Any one can have these candies at home at less than one third the usual cost. Sent postpaid for 50 cents (20 stamps taken). Address ROCHESTER PUBLISHING CO. 32, 32 & 33 1-2. Osburn Block, Rochester, N. Y.

A CRYING EVIL.—Childaen are often fretful and all when Worms is the cause. Dr ow's Worm Syrup safely expels all Worms.

#### Modern Maric.

The magical power over pain that Hag-yard's Yellow Oil possesses, outrivals the marvels of arcient times. It acts in a na-tural manner to subdue inflammation; cures rheumatism, croup, deafness, sore throat, and painful injuries.

#### Remarkable Restoration.

Mrs. Adelaide O'Brien, of Buffelo, N. Y.. was given up to die by her physicians, as incurable with consumption. It proved liver complaint and was cared with Burdock Blood Bitters.

#### "The Woman' Physician."

"The Women" Physician."

A common sense medical work for ladies only. Fully answers all questions which modesty prevents asking a male physician. Gives causes and symptons of all diseases of the sex, with positive cure for each in plain language, writen by ladies who have made these diseases a life study. A plain talk in delicate language which every woman, young and old, should read. It is recommended by many eminent lady physicians as a safe guide for the sex. Handsomely bound and illustrated. Sent postpaid for \$1.00. Address the

ROCHESTER PUBLISHING CO.

32, 33 & 33 1-2, Oshurn Block.

Rochester, N. Y.

NATIONAL PILLS is the favorite purgative and anti-bilious medicine, they are mi'd and thorong...

WORMS often destroy children, but Free-man's Worm Powers destroy Worms, and and them from the system.

The overdress is more and more frequently made with downward plaits as the scason anvances.

TO REMOVE DANDRUFF—Cleanse the scalp with Prof. Low's Magic Sulphur Scap. A delightful medic ted scap for the

#### Buckling Arnica Salve

The best salve in the world for cuts, The best salve in the world for cuts, bruises, sores, ulcers, salt rheum, fevores, tettor, chapped hands, chilblains. Its, and all skin eruptions, and possitively cures piles, or no pay required. It guaranteed to give perfect satisfaction, it money refunded. Price 25 cents par box. For sale by all druggists.

#### A Sudden Attack.

All people, and especially travellers, are liable to a sudden attack of cholera morius, diarrhea and dysintery. Dr. Fowler's Wild Strawberry is the most prompt and reliable remody known.

#### It is no WonLet

that so many people sink into untimely graves when we consider how they neglect their health. They have a disordered liver, deranged bowels, constipation, piles or diseased kidneys, but they let it g and think they "will get over it." It grows wo se, other and more serious complications follow and soon it is too late to save them. If such people would take Kidney-Wort it would preserve their lives. It nets upon the most important organs purifying the blood and cleansing the system, removes and prevents these disorders and promotes health.

#### To the Ladies.

McGregor & Tarke's Carbolic Cerate will McGregor & Tarke's Carbolic Cerate will cure any case of pimples on the face, or rough akin on either hands or face and leave them soft as silk. It will also heal any sore when all other preparations fall. Thousands have tested it. Ask your druggist for McGregor & Parke's Carbolic Creats, and do not be persuaded to take anything else claimed to be as good. It is but 25c. per box at T. Cumines' drug store.

#### a Manking io all Mankind.

In these times when our Newspapers are flooded with patent medicine advertisements, it is gratifying to know what to procure that will certainly cure you. If you are Billous, blood out of order, Liver inactive, or generally debilitated, there is nothing in the world that will cure you so quickly as Li. 't' Bitters. They are a blessing to all mankind, and can be had for only fifty cents a bottle of any drue for only fifty cents a bottle of any drng

#### A Good Time.

When is the best time to take a blood purifier? Whenever the blood is foul and humours appear, or when the system is debilited take Burdock Blood Bitters,

A host of hodily troubles are engendered by chronic indigestion. These, however, as well as their cause, disappear when the highly accredited invigorant and alterative, Northrop & Lyman's Vegetable Discovery and Dyspept'e Cure, is the agent employed for their removal. A regular habit of body, and a due secretion and flow of bile, invariable result from its persistent use. It cleanes the system from all irregularities, and restores the weak and broken down constitution to health and strength. health and strength.

Mr. R. C. Winlow, Toronto, writes:
"Northrop & Lyman's Vegetable Discovery 12 a valuable medicine to all who are troubled with indigestion. I tried a bottle of it after suffering for some ten years, and the results are certainly beyond my expectations. It assists digestion wonderfully. I digest my food with no apparent effort, and am now entirely free from that sensation, which every dyspeptic well knows of unpleasant fulness after each meal."

It is a remarkable fact that Dr. Thomas' Eclectric Oil is as good for internal as external use. For disease of the lungs and throat, and for rheumatism, neuralgia, crick in the back, wounds and sores, it is the best known remedy, and much trouble is saved by having it always on hand, Jacob Loockman. Buffalo, says he has been using it for rheumatism. He had such a lame back that he could do nothing; but one bottle entirely cered him.

R. C. Bruce, druggist, Tara, says: I have no medicine on my shelves that sells faster or gives better sat laction than Dr. Thomas' Eclectric Oil, and the sale is constantly increasing, the past year being the larrest I have ever had. One of my customers was cured of catarrh by using three hatt'es. Another was raised out of bed, where he had been laid up for a long time with a lame back, by using two bottles. I have lots of customers, who would not be without it over night.

#### DATRY.

#### A STUDY OF SHEESSETTING.

PV PROP L B ARNOLD

same temperature, in an atmosphere c in a ike and both prome dica city, the same man his of latter. If the manne of cream and the development of butter flavor depended on souring alone, these two sazáples et butter should have been ! alike, since the milk and cream were some nike in both simpler; but they were not alke. They were very diff rent, and the charming was different. The cream tram the wilk set in exygen pas charped in the. that of the time in and for charming the cream of the milt from which exigen was excluded by enveloping it in carbonic neld grs.

The butter from the fam r was very high flavored in didelicious, and remarkable for its long keeping. The butter from the latter was let flavored and equally re markable for being short lived. The milkfats in the latter case appeared to have acquired no new flavor from the fact of souring but to have retained unchanged the new-milk flavor they had when the milk was first set. This experiment, re peated ill the results were demonstrated to be uniform, is interesting as showing the tallacy of the current epition that scuring is the patent agent in injening cream, either fir the purpose of heightening the flavor of butter or to give it hing keering, or to make churcing easy, for it proves positively that semishing the than souring is accessing to these ends, and that that something is free exygen. Arring, not souring, is the ellipicat agent for off ching these purposes, but even if well aired, the effect will be but feel le if the temperature is kept too 1 w.

These statements are demonstrated facts. and they explain why submerring unlk in ice-water, or in any water, while it affords the best of protection from deleterious influences without, fails in promoting the highest possible attaurment of good in the resulting butter. They explain why cream, in being separated by a centrifugal machine, while freeh from the cow and sweet and warm, will develop no re flavor in a minute, by the powerful sing it gets from currents made by the leghtning spend with which it totates, than can be developed in a day under ice water with an effectual exclusion from air, the developing agent. It is true, cream may be quickly raised by refrigeration, and warmed and sipened afterwards, but not with the best effects. Cream which is growing old without grow-Cream which is growing old without growing butter is deteriorating; and since it has been shown that mation is essential to a proper ripening, it must be evident that it cannot be as effectually aired after it is collected into a mass, as it can be when it is spread out on the surface of the milk at ju t the right temperature.

The facts above stated are not offered with any thought of settling the question whether acidity plays any part in repering whether acidity plays any part in repealing Give Holloway's Corn Cure a trial. It removed ten corns from one pair of fact without any pain.

ing is increased or diminished or not at all affected by the fact of souring, but they do demonstrate that souring alone does not develop any new or improved flavor in the It is greened at her I regarded that the harter fits, and they prove that airing is reperture of create o not t in the saming of also but he we isle. Neither are they init. There is a horse positivity that the tended to decide whether open setting, subsouring may have on thing to do with the merging, the centrifugal or some other results, but the riper nee does not depend mode of separating cream is the most on setting lener. Were I set a some le of prefitable for general adoption. They are milk for ferry-fore hours at say through if red for the purpose of explaining the depression atmosphere of pure oxiger, ground for remarks in a previous number and another qual cample from the same about " Ice in the Dairy," to which excepmess of unit for the same and at the tions are taken, and with the hope of giving some useful hints to amateur buttertailing 10 (A)(1), both used (Nacl'y makers by way of pointing them to the most efficient cause of superior influence.

#### Advice to Mathers

Advice to Methara,
Are you disturbed at night and broken of your, eachly a sick child suffering and crying with prin of cutting teeth? If so, send at once and cut a butle of Mrs. Winnlow's Boothing Brrup for children feething. Its value is meakenable. It will relieve the pror little sufferer immediately. Depend upon it, inothers, there is no mistake the sufferer in the store of the sowies cutter the storest dysenbery and distributed colle, suffere the sum and bowder cutter wind colle, suffered to guns, reduces inflammation, the great me and energy to the whole system. Its winslow's Boothing Byrup for children iccluding indemant to the tack, and is the prescribil in of one of the oldest and host families misses and physicians in the United States, and is the prescribed of the property of the paid drugglass throughout the world.

#### Rest and Comfort to the Saffi

Rest and Comfort to the Baffering.

"Brown's Household Paneoes"has no equal for relieving pain, both inharmal and external. It cures pain in the side, back or howels, sore theory, rheumatian, toothasels, lumbage and any kind of a pain or sole. "It will meas sarely quicken the blood and heal, as its acting power is wonderful." "Brown's Household Paneoes," being technologied as the great Pain Believer, curi of double the strength of any other chine or limited in the world, should be in every family hindy for use when wanted, "as it really in the best roughly in the world for eramps in the stomach, and paneous debas of all kinds," and is it walls he all druggies as 25 cents a bettle.

#### Well Ross

Well Reverded.

A liberal reward will be paid to any party who will produce a case of Liver, kidney or Stomach compleint that Electric Bitters will not speedily ours. Bring them along, it will east you nothing for the medicine if it falls to ours, and you will be well rewarded for your trouble besides. All blood, diseases, billeumen, jaundice, constipation, and general debility are quickly cured. Satisfaction guaranteed or money refunded. Price only fifty cents per bottle. For sale by all druggists.

#### Caution to Bairymen.

As's for Wells, Richardson & Cola, Improved Butter Color, and take ao other. Beware of all imitations, and of all oil colneware or an initiations, and of all oil col-ers, for every other one is liable to become and it and spoil the butter into which it is put. If you cannot get it write to us at limitegion, Vi., to know where and how my get it without extra expense. Thous-mats of tests have been made, and they al-ways prove it the best.

#### Would You Hollove It.

Nature's great remedy, Kidney-Wort, secured many obstinate cases of piles.

American women are said to be the most American women are said to be the most elever, active, and energetic to be found; and well they need to be, considering the enormous demands mane upon them by mudern schools, housekeeping and society. Mrs. Lydia E. Piakham, in preparing her celebrated Vegetable Compound, had in mind all those countless demands on a woman's strength, and her well known remady proves every day its perfect adaption to woman's special needs.

#### Advertising Chests 111

"It has become so common to begin an article, in an elegant, interesting style
Then run it into some advertisement
that we avoid all such.

'And simply call attention to the merits of Hop litters in as plain, honest terms as

"To induce people

"To give them one trial, which so proves their value that they will never use any-

thing che."
"THE REMEDY o favorably noticed in all the

papers.
Religious and secular, is
"Having a large sele, and is supplenting all

"Having a large side, and is supplicating all other medicines.
"There is no denying the virtues of the Hopplant, and the proprietors of Hop Enters have shown great shown the shown as about the wife shown as the street of the shown of the s

DM She Die?

"No!
"She lingered and suffered along, pining away all the time for years,"
"The doctors doing her no good:"
"And at last was cured by this Hop Bitters the papers say so much about."
"ladeed! Indeed!"
"How thankful we should be for that medicine."

#### A l'aughter's Misery.

Eleven years our daughter suffered on a

bed of misery.
"From a complication of kidney, liver, rheumatic trouble and Nervous debility,
"Under the care of the best physicians,
"Who gave her ulsease various names,
"But no relief,

And now she is restored to us in good health by as simple a remedy as Hop Bit-ters, that we had ahunned for years before using it."—THE PARENTS.

Father is Gesting Well.

"My daughters say:

"My daughters say:
"How much better father is since he
used Hop Bitters."
"He is getting well after his long suffering from a disease declared incurable."
"And we are so glad that he used your
Bittera."—A'Lany of Utica, N. Y.

IF None genuine without a bunch of greet Hope on the white lebel. Shan all the vile, pole or one stoff with "Hop" or "Hope" in their name

TURST CLASS DELAWARE FARM for sale I is salien from town of Farmington, on Delaware R. E., 27 some, high state of entitivation, 75 bushels over, 25 bushels wheat per acre, 28 serves in timothy and clover, 48 acres in grain, 76 peach trees, appier' pears, cherries and crayes, two stercy dwelling, modern falsels, establings, three tenant hower; healthy less than out of buildings, Address Anos UOLE, Harrington, Delaware.

CALESEET for Australia.—About 28 free-rate went to mil on Aug. boat; guaranteed salary and commission; also 7 for Out. Apply immediately. "Field Dept.," Bradley, Garretson & Co., Brantford, Out.

266th Edition. Price Only \$1 BY MAIL POST-PAID.



## A Great Medical Work on Manhood

necriptions for all acute to one of which 1) form Author, where 77 2m 24.50.

THYSELI a Dr.



## J. W. BARTLETT.

Lambeth, - - Onl.

#### BRAHMAS. DARK

laying brod this mogal and beautiful var-lety, exclusively, for six years, I am now in a pection to offer eggs from birds of great morit.

My breeding bens for this year are composed as follows:--

TABLI No. 1.—Cockerel of tem pounds weight, seriest pee comb, solid black breast, and most cocklent leg feathering, meted with four ground seen, which hast season as pullets produced

pgs, \$2.00 per systing of 13.

YARD No. —Cock from the yards of the justly celebrated broader. Philander Williams, of Taunton, Mass gl. et.; perfectly straignt pea semb, low and heavily built, with good log feathering; mated with four superb pullets, three of which have swon red tickets, the ofter have all are low, heavily built birds, with a prefusion of leg feathering and finely penelled.

Eggs, \$2.00 per 13. My shock took first prizes at all the leading shows lest Fall, and at the abow of the Poultry Association of Ontario, at Toronto this year, and is no tastance has a bird from my yards ontered the show pen without winning a prize. Lest year 56 per cent, of the eggs from my brids batched, and 35 per cent of these won prizes.

Equare dealing in the future as on the past CBI KS FOR SALE IN SEPTEMBER.



#### **NORMAN'**S ELECTRIC BELTS.

(KETABLISHED 1674.)

4 Queen Street East, Toronto.

Rervous debility, rhoumatism, neuralgis, lum-age, lame book, liver, kidney and lung diseases, and all distance of the nerves and want of circu-tion, are imbacdiately relieved and perman-sky ourselby using these appliances. Circulars all consultation free.

OTTAWA, Sept 3, 1863.

Norman, Req: Dear Sir.—I have experi-ed considerable becefit from your Appli-es. I feel stronger and hetter every day. Yours truly, B. R. Halmurron, Pervensonovan, Oct. 15, 1883.

Pertunomouser, Oct. 18, 1883.

A. Monnur, Esq: Dear Sir,—Soon after I commoned to use your Electric Lipitaness they opened my howels, cured my count and coid, refleved my head, and coins trably releved my cetarris in consequence. The discharges from my feed and cheef are new easy, and I feel altegather better. My digestion has tempreved, my stemech is been now and windy, and I am less trushed with lancificate and windy, and I am less trushed with lancificate and windy, and I am less trushed with red almost all the advertised pattern and the advertised pattern medicines without deriving any gord.

Yours truly, J. G.





## \* VEGETABLE COMPOUND \* \* . \* IS A POSITIVE CURE \* . \* . \*

For all of these Painful Complaints and Verknesses so common to our best \* \*

"PEMALE POPULATION." " " "

It will cure entirely the worst point of Frmair Complaints. All Ovabian thousies, In-Planmation and Ulceration. Falling and Dis-Placements, and the connectment by Mal

ALSOF THE STONAGH. IT CURES BLOATING, HEAD-ACHE, NERVOYS PROPERATION, GREERAL DEBULTY, INFINESION AND INDIGESTION.

\* THAT PERLING OF BRARRIS DOWN, CAUSING PAIN, WRIGHT AND BACKACHE, IS ALWAYS PERMANESTLY CURED BY ITS USE.

\* IT WILL AT ALL THERA AND UNDER ALL CURCUMSTANCES ACT IN HARMONY WITH THE LAWS THAT SOVERN THE FEMALE STSTEN.

\* SO-ITS PURPOSE IS SOLELLY PORTHEL LEGITHATE IMPAINT IT DOSS ALL IT CLAIMS TO DO, THOUGANDO OF LADIES CAN GLADLY TESTIFY.

\* FOR THE CURE OF KINNEY COMPLAINTS IN HITHER SEX THIS RUNEDLY IS UNSURPASSED.

\* LYDLA R. PINKHAMS VIGITABLE COMPOUND IN PROPERTY AND ALVAND. SEAL LYMN, MASS. PROS. II. Six bettles for St. Sold by all druggles. Seal by seal, postage paid, in form of Pills or Lanuages or recounts of prion on above, My. Taktham's "Guide to Beakle" will be mained free to any Lady seeding stanage. Letters conflectably answerged.

\* Xo feasily should be without LYDIA R. PINKHAMS 

#### The Herd Embraces

100 ANIMALS With cowe having well authenticated tests of 1 m 14 iba to 27 iba 25 ca of butter in 7 days; also Mary Anne of St. Lambert, who mede St lin. 7; ca. of butter in 11 months and 4 days. The public are invited to inspect the stock. Faint, one quarter of a mile from Washerdown tail in, G. T. R. R. Address, WALANCEY E. & M. H. FULLER, Hamilton P. O.

## Horse Owners.

## GOMBAULT'S CAUSTIC BALSAM.

The Great French Veterinary Remedy I

red by J. R. GOMBAULT, co-Potert Surgeon of the French Goograms

A Speedy, Positive and Safe Cure A Speedy, Publish Swenny, Capped Hook, Strainof Tradenn, Founder, Whod Faffs, all Skin
Diseases of Farastees, Turesh, all inflamentation,
all Threat Difficulties, all leaves from Speeds,
Ringbene, and other bony timers. Reserves all
Benches or Eleminhes, and many other diseases
and allments of Herees and Cartle. Far unperity to a bileter, or austorization is its benefitied
of Search Serveng a some or blamain.

We Guarantee of Administration of Administrawell mobile and and the Search Serveng
with mobile and and the Search Serveng
with mobile and serveng desire of speeds
with mobile and serveng
with mobile and serveng
serveng
serveng
server and serveng
server and server and server
server and server and server
server and ser

t in gin antichten. Fran 91 fe half fran Galler and San St. All and the call discourse by his san

Carried St. P.



TO CARRY THE PAST MAIL

# Route.

GOING WEST. CHICAGO, PEORIA & ST. LOUIS,

DENVER,

BAN FRANCISCO SILI IN THE WORL AND KANSAS CITY,

TOURISTS AND HEALTH-SEEKERS

THE GREAT

## INDUSTRIAL FAIR

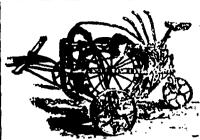
Exposition. Semi-Centennial

TORONTO, Sept. 10th to 20th.

THE WILL BE THE

#### GRANDEST EVENT

500, J. SETTER MITAL NO 16.7



#### DITCHING MACHINE For Underdraining.

Will do more work than 39 man with spate Guaranteed to give satisfaction. Send for circular,

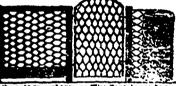
At an exhibition held in New Jersey, U. F., on the 10th June,

THE ELEVATOR DITCHING MACHINE STEM WINDING WATCH. dug 33 rods of ditch over three feet deep in 24 minutes.

WM- RENNIE Sole Manufacturer, Toronto, Can.

PATENTS Hand-Book FREE.
PATENTS R. S. & A. P. LACEY,
YAMPE ALLYS, WASHINGTON, D. G.

# CURE FITS!



## CIDER Prisons, Graters, Elevators

Britis & Ditt : LT : EE 14 (C. High this is the state of the

A GOOD

GERMAN CILVES WATCH

THE WORLD MAGAZINE

in are be busing these Celes , POSTAGE FACE.

CORRECT TIME REEPEP. IT IS MADE OF LEAWAN SILVER: -"World Magazine,"

A SPLENDIÐ ILLUSTRATILD FAMILY MONTHLY.

The langest star of two be though most metal either in the world,
there is the volume of the Bostone Points and Home.

Soften recipies of two contents to put

A these THE WORLD RIGIZED I. S IN C. ETCHATE A ASSISTED CHICAGO,

#### BEES FOR SALE.

Of the thought of the first in Simplician have, the minimum of the state of the sta DE. CHAVER Staffed P. O.

Dox 91

CESTS will pay for a two menths rild subscipling on the carrier paged works in live hard. Not springiple and directive, served to the in-riche of Tangorange and broken in the larger subscipling only Oxfort, it a New Arthur 1 - CUTIZEN PUR to the briefs of Tangorage a from their legillar subgrigation only O from a a Year Aranha : - UTIME PI LIMITAGOY, EXIMATEDE LIGHT TORK O

To all who are suffering from the effects and indiscretions of youth, accept weakness, extly decay, has at manheod, &c. I will a policite just will come you. THEE OF CHARGE. The great remedy was discovered by infestment in bouth America. Sand and-actions is encounted to the five Joggru T. Linker, Biblion J. Accepted City.



Cares Dizzne's, Loss of Agantite, Indigation, Birming Dyspopsia, Jaundice. Affections of the Liver and Killings. Pimples, Blotches, Bo'ls, Humors, East Kheum, Scrofula. Erysipe as, and all diseases arising from Logare Blood. Derenged Stomach, or tere plan action of the Borels.

AND THE RESERVE OF THE PARTY OF

For 16 million people pow swatt occupancy in " MINNESOTA, DAKOTA, MONTANA, WASHINGTON AND OREGEN IN THE NORTHERN PACIFIC-COUNTRY.



CHAS. B. LANBORN, Land Complisioner, St. Paul, Mass.

THOMAS GUY, breeder of Ayrshire Cattle, Leicester and Southdown Sheep and Berk-chire Pigs, Sydenham Farm, Osbawa, Ont.

FOR SALE, cheep, pure bred Black Spanish also pure bred Plymouth Rock eggs in sea on. M. BROPHEY Brantford, Ont,

W. ROLPH, Glen Rougeh: Farm, Markham, Ont., Importer and Breeder of Jersey Cattle. (Butter qualities a specialty. All registered in A. J. C. O.

\$10.00 A Pair for Bronze and Narra-Brand. Bred it years for size and beauty. Scotz-for T. Bunker's Secrets of Turkey Raising. W. CLIFT, Hadlyme, Ct.

Polar Chinespers Poland China pigs Polard China pigs Pedis Struitshed with each sale. Prices reasonable. Our SO page illustrated hand book of P. C. swine sent on application—D. L. THOMAS, Rushville, Ind. U. S. A.

I ENKY COMSTOCK, of Liberty Mills, Ind.

El Breeder of choice strains of thoroughbred
Short-horns and Poland Chinas wants 1,000 farmers to send for his circular and price list of stock,
hatd pan prices.

WALKER HOUSE, Corner York and Front Streets, Toronto. This Favorite Hotel overlooks Toronto Bay. It has 125 specious and well ventilated Bed-rooms. Convenient Sample Rooms and Passenger Elevator. Pres Omnibus to and from all Trains and Boats. Terms, \$1.50 an' \$2 per day, according to location.

A MERICAN HOTEL, Corner of A Yonge and Front Streets, Toronto. Con-venient to Depots and Wharves. Charges moderate.

Mest Extensive Pure Bred Live Stock Establishment in the World.



Clydesdale Horses, Percheron Norman Horses, English Draft Horses, Trutting Bred Road-sters, Shetland Ponies, Holstein and Devon Cattle:

Our customers nave the advantage of our namy years experience in breeding and im-orting large collections, opportunity of comparing different breeds, low prices, connec et extent of business and low rates of transportation. Catalogues tree. Correspon-space splicited.

POWELL BROTHERS, Springboro, Crawford Co., Pa,

Montion CANADRAN PARA



WANTED-Ladies and gentlemen in town or sountry distance. No objection can have steady work at their own homes all the year round, and can make from \$10 to \$15 rer week. No canvassing work sent by mail, Address Oakland MFG CO., Box 5222, Hoston,



earth Manufacturing Co., Sonicago, ILL

#### DO YOU KEEP-

Hens, Turkoys, Ducks, Geosc, Pigeons, Causing Rabbits, Dogs, Cattle, Sheep, any sort of domestic Par Stock?

THEN YOU WANT

## "THE POULTRY BULLETIN"

The oldest Poultry Journal in America. The Best Poultry Magazine in the World.

Devoted to the care and management of Poutry, Pigeous, Blids, Rabbits, and Pet Stock of all kinds.

Reliable | Instructive ! ! Entertaining | 1 !

Criginal, Independent, Progressive. The latest the freshest, the most entertaining topics are discussed by the foromost writers among Ameri-can fanciers. New attractions are constantly appearing.

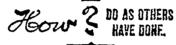
If you take any paper of the sort you want the BULLETIN. If you keep poultry or pet stock of any kind, you want the BULLETIN. It costs but little,

\$1.25 Per Year, Post-Paid.

Remit by Post Office order or registered leiter and address

POULTRY BULLETIN 62 Courtland street N. Y. City.

Health and Happiness.



Are your Kidneys disordered? "Kidney Wort brought ine from my grave has were after I had been given up by 13 test dos tops i Detroit." M. W. Deveraux, Mechanic, Jonn. Mich

Are your nerves weak?

Kidner Wors cured me from mercons ... aknow,
after I was not expected to live." Mer. M. Il.

odwin, Ed. Carintian Homior Cierciani, O.

Have you Bright's Discuss?
"Midney Wort cured ine when my water was just like chalk and then like blood: Mrs. Peabody, Mass.
Frank Wilson, Peabody, Mass.

Suffering from Diabetes?

"Kidney-Worl labe most successful remover have yet used. Gives almost immediate his?"

Dr. Phillip C. Ballou, Montton, Vt.

Have you Liver Complaint? "Kidney-Wort cured me of chronic Liver Diseases lifer I prayed to die." Heary Ward, late Col. Only Nat. Guard, N. Y.

Is your Back lame and aching?
"Eldney-Wort, it bottle) cured me whon I was so
lame I had to roll out of bed."
A Talinage, Milwackee, Wis.

Have you Kidney Disease?
"Kidney Wort made me sound in liver and kidneys
after years of manacement disclorates. His work valike hour." Sam'! Hodges, Williamstown, West Va.

Are you Constinated?
"Midney-Work cases easy oracialisms and cared
se after 16 years use of other medicines."
Nelson Fairchild, 3th Albans, Va.

Have you Malarin?

"Kidney-Wort has done better than any other smelly I have ever used in my precine smelly I have ever used in my precine."

Dr. H. E. Cisek, South Hero, Va.

Are you Bilious? Wort has done me more good than any dy I have ever taken." Mrs. J. T. Oallowsy, Elk Flat, Oregon

Are you tormented with Piles?
"Kir Two premarable carel ine of bleeding id. "1-wort permanently caret into at incoming two C. Kline recommended it to me."

11. Horar, Cashier M. Dank, Myerstown, Pa

Are you Rheumatiam racked?

"Kidney-Wort cured me, after I was given up to
die by physicians and I had suffered thirty years."

Elleridge Malcolm, West Bath, Raino.

Ladies, are you suffering?
Eldney-Work cured me of peculiar troubles
and yours standing. Many friends upon the
Bra H. Emoreaur, live La Motte,

If you would Banish Disease and gain Health, Take

KIDNEY-WORT THE BLOOD CLEANSER.



Is guaranteed to give better setisfaction and do better work than any Hay carrier made. For the purpose of getting them larriery before the farmers of Canada this year, I will sund one on trial to any responsible farmer in the Dominion at a price approximating out. Save time, money and Jabor by purchasing this year. Amone wanted in every county. For circulars address W. J. SCOTT, Bridgewater, Oncida Co. N. Y.

# **PATENTS**

## M MAN



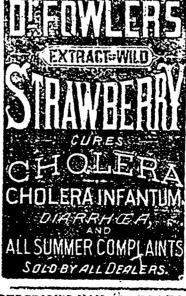
MCAOO, ROCK ISMAD & PACIFIC R'Y

WINDLY TOTAL incap-

The conference of the principal Thekes Officers in

Baseage chained through and rates of fire alntm ford India minimital, p. t the Urps and Pold-4 of the

CREAT ROOK ISLAND ROUTE
ATTOUR ROOK ISLAND ROUTE
ATTOUR ROST THE ACT COLOR OF THE PRESENT OF THE ACT COLOR O





## **GRANGE SUPPLIES**

For Sale at this Office.

1831THE CULTIVATOR1884

## Country Gentleman

THE BEST OF THE

#### AGRICULTURAL WEEKLIES.

The Country Gentleman is the leading journal of American Agriculture. In amount and practical value of Contents, in extent and ability of Correspondence, in quality of paper and style of publication, it occupies the FIRST RANK. It is believed to have no superior in other of the three chief divisions of

#### FARM CROPS AND PROCESSES. HORTICULTURE & FRUIT GROWING, LIVE STOCK and DAIRYING;

LIVE STOCK and DAIRYING; while it also includes all minor departments of rural interest, such as the Poulity Yard, Entomology, Boo. Recping, Greenhouse and Gravery, Veterinary Replies, Farm Questions and Answers, Fireside Reading, Domestic Recommy and a summary of the News of the Week. Its Market Reports are unusually complete, and much attention is paid to the Prospects of the Cropa, as throwing light upon one of the most important of all questions—When to Demand When to Sell. It is liberally illustrated, and is intended to supply, in a continually increasing degree, and in the best sense of the term, a

#### Live Agricultural Newspaper,

LIVE AGRICUITUFAL NEWSPAPER, Although the Country Grattenan has been creatly enlarged by increasing its size from 16 to 20 pages weekly, the terms continue as hereufore when paid strictly in advance: One copy, one year, \$2.60; four copies, \$10, and an additional copy for the year free to the sender of the club in copies, \$20, and an additional copy for the year free to the sender of the club.

LETAIL NEW SUD-Cribers for 1801, paying in advance now, will receive the paper weekly, from receipt of remittance of January 181, 1861, without charge.

sor Specimen Copies free. Address

LUTHER TUCKER & SON, Publishers, ALBANY, N. Y.

#### INTERCOLONIAL RAILWAY.

The Direct Route from the West for all Points in

NEW BRUNSWIGK,

Nova Scotia, Cape Breton, and Newfoundland\_

All the repular SEA-BATHING, FISHING, and PLEASURE RESORTS of Canada

## ARE - ALONG - THIS - LINE.

Publican Cava leaving Montreal on Monday Wednesday, and Friday run through to Halifax and on Thescay. Thursday, and Saturday to St John's, N.B., without change.

Close Connections made at Point Levis or Chandlere Junction with the Grand Trank Rail-way, and at Point Lovis, with the Richelleu and Ontario Navigation Company's Steamers from Montreal.

ELEGANT FIRST-CLASS PULLMAN, AND SHORING CARS ON ALL THROUGH TRAINS.

First-Class Refreshment Rooms at Convenient Distances.

#### IMPORTERS AND EXPORTERS

WIRITHERS AND EXPORTERS
Will find it advantaneous to use this roots, as it is the quickest in point of time and the rates are as low as by any other. Through freight is forwarded by fast special trains, and experimental proved the 1-teresional route to be the quickest for Lumpean freight to use from all points in Canada and the Western States. Tickets may be obtained and also information about the route and about freight and passenger rates from ROBERT B. MOODIE, Western Freight and Passenger Agent, 93 Rossin House Block, York St., Troute.

D. POTTINGER, Chief Superintendent.
Railway Office, Moneton, N. B., May 28, 1884.

FIRE PROOF CHAMPION ENGINES

DF CHAMPION

IN THE BARN YARD

BUILT SINCE 1877

BOUGHT BY

Farmers, Threehers. Stuck Raisers. Ranch Companies.

## THE FAVORITE

EVERYWHERE.

NO FIRES, NO EXPLOSIONS, NONE RETURNED

Most efficient, economical and durable. Nost aimple and easily managed. Greatest cure and best materials experience can suggest used in their construction.

CALL AT OUR WORES and examine material used, mode of construction and testing.

WE TEST AN ENGINE EVERY DAY.

Over 40 Finished Engines in stock -12, 16 and 20 Horse Power to choose from

Portable Sawmills Shingle Machinery, Choppe s.

AST Send for Illustrated Catalogue.

Mention this Paper.

WATEROUS ENGINE WURKS CO., BRANTFORD, CANADA.

## The Canadian MUTUAL AID Association.

INCORPORATED AUGUST 20, 1881.

Head Office, - - Toronto.

WATEROUS ENGINE WORKS CO., BRANTFORD, CANADA.

BOARD OF DIRECTORS

WM RENNIE. Esq. Toronto, President:
E H HILBORN, Esq. Uxbridge, Treasurer:
GZO H WATSON, LL, B, Toronto, Solicitor
O. H. MACKINTOR, M. P., Ottawa
THOS. HENKER, Peterboro:
FRIER GRAMAM, M.P.P., Warwick:
The Directors have filed with the Hon. S. O. Wood, (Provincial Treasurer of Onlario) Trudes
for the Association, Bonds to the Amount of \$60,000 as a guarantee for the honest
'corrying out of the terms of Certificates issued to Mambers.

SW Reliable Aid to Families of deceased members at Small Cost. For particulars apply to S W Hill, Membership Superintendent, Ridgeville, or to W Pemberson Page Secretary, No 87, King Street West Toronto.

## ATTENTION

BEE-KEEPERS

IS CALLED TO THE PACT THAT WE ARE NOW

PREPARED TO DO

JOB PRINTING

OF

Every Description.

BEE-KEEPERS' WORK A SPECIALTY!

ADDRESS,

CANADIAN FARMER, Welland, Ont.







LORD. COOX & SON.

AULTSVILLE ONT.
Importure and Breeders of
THOROUGHBRED HOLSTEIN Herd consists of 80 animals, having "Lond Breon" at the head. All delections made in Holland by Mr. Lord personally. Animals all registered in Holland Herp Book. Corn, Bulls and-Calves for sale. Witte for particulars.

## FARMERS' WIVES.

4

from 40 to 50 cents. I have discovered and FULLY TERRIT the only tree and infallible way for av-ing them intrough bet and cold weather for any length of time. No presenvarion or FLITELY RIGHT. Will send full and complete direction, to any address upon receipt of \$1.00 and two letter stamps. Sentifection generated or money returned. Address H.O. BENTILEY, F.O. Box 886, Creston, Union Co., Lown. State paper.

# A THOU AND DOLLARS RBEST CROPS

DARK BRAHMAS—I this season offer eggs for hatching as follows: Yard No. I, headed by a grand cockerel much above the standard weight and three grand house that the two standard weight and three grand house that bave already produced many prize winners; questions the yards of the justly celorated Philaucie Williams, of Taunton, hisses, and four guate williams, of Taunton, hisses, and four guate pullets, turee of which have won first prizes the other second eggs, \$2.00 per 18. Notice—By bit, a have won prizes this secson whenever shown. J. W. BARTLETT, Lamboth (itte London South), Ont.

#### fine chromo—niagara falls

We have just a new of those fine Chromo Lithographs of Niegera Kalls, pronounced by all who have seen them "the pink of perfection," the best picture of the Falls that over pussed through a printing machine. It is published within sound of the Mighty Cataract. The Chromo is 2000 heavy mounted, ready to frame It is pronounced by artists to be the most correct view of the Mighty Falls ever produced. The proof cost \$160 M, and this picture is biting lestiled at \$1 and \$1.50 each, we will sell what we have loft at 200, note paid to any address, of tree to any new subscriber sending \$1. Can adjan Farmer Welland.

## TO TEMPERANCE WORKERS

EVERYWHERE.

At the "CANADA CITIZEN" Office we want the address of every

#### **PROHIBITIONIST**

also an active, zealous friend in every /illage, town and city, to push the circulation of our Newspaper, Books and Tracts. Useful Work, Liberal terms. Address:

CITIZEN PUBLISHING CO.. S King Street East, Toronto

## FARMERS!

-TRF: -

"Canadian Stock-Raisers Journal,"

Published Monthly

Published Monthly
And handsomely illustrated with life-like en
gravings of representative Canadian at tek, he
may with such marked success and encourance
ment from the stockmen and farmers of the
Dominion, and correspondence has come in so
freely from swary quarter that the publishers
were compelled to enlarge it twice during the
present year. It claims to have no superior in
any of its departments of
Stock-Raising; the Farm; the Dairy; Poutry
the Aplary; Hortleniture, and the Home.
Sedescription price, \$1.00 per annum, To an
person forwarding us 50c, we will sind the
Journal' to and 1884. Cauramers wantedliberal pay. Epselman copy sent free.

The Stock Journal Co.,

TOR VEGETABLES
LOFFER TO MY
CUSTOMERS
ATHOUSAND DOLLARS

EST CROPS
AUTOMERS

ATHOUSAND DOLLARS

LEY CROPS

AUTOMERS

#### Spence's Select Readings.

Propare for the long winter evenings by tup thing somescher area in sent conditioning states and sent conditioning gatherings social, eate tooperete, de. Of Spetice's select Receiving the Toronta Witness (as it is 'b) but to lost of the Mongrahus story of sooi. The Chemium Guardian story is been with be found well a liquid to it imposed on we condition which is not united." The Multisher is to might be a considered with the money of the property of the condition of the task. The C SALINA ARMITING MINISTED AND ARMITING MINISTER AND ARMITING THE CANADIAN SARMITING Webs, and that them the CANADIAN SARMITING MONEY of the time of the time of the control of the condition of the time of the condition o

#### GRAND DOMÍNION AND 89th PRO-VINCIAL EXHIBITION,

CYPER THE AUSPICES OF THE

## Agriculture and Arts Association OF ONTARIO.

## TO BE HELD AT OTTAWA,

22nd to 27th SEPTEMBER 1884. \$23,000 in Premiurs and Do-minion Medals.

Entries must be made with the Secretary at oront, oner before the and-ramentioned dates,

foront, one of below the undermenthoned dates, 21.4. Horses Cattle Sucep, Scine, Poutry, Agricultural implements, on or before Saturday, August 22nd. Grain, Field Rosts, and other Farm Products, Machiners and Manufactures genoually, or or levels Saturday, August 20th. Hor under 1 Products, Ludies Work, fine Arts, etc., on a before Saturday, Sept-inder 6th.

Price Lasts, and Black forms for making the attosup a caust a obtained of the Secretaries and Rochauces in all forticultural Societies and Rochauces institutes throughout the Promos cut to the Secretary, Henny Wade, of Foronto.

#### POLAND CHINA EWINE (THOROUGH, HEED).

I HAVE the only herd of reg stered Polidical Cans by Frest prizent Montreal. Strokfor and Also Phymorth Rock eggs SLES for L. LEVI E. Will PMAN, Lake View Farm, Ku switter, Quebec.



PREIMAIS TORM POWDERS.

Are pleasant to take. Contain their era Permitive. Is a safe, sure, and effectual descrever of morne in Children or Addis.

# \$25,00 GIVEN AWAY.

To every reader of the CANDADIAN FARMER who discount that the fall name and Post Office of the Candadan stamps for post 150, wo will be fare.

## The American Housekeeper,

arge 187 paged book; nicely bound. Contains over 1.20 Valuable-Household licelyes, and a still valuable information worth its weight in gold to any family. Sees neathald, for 8 April maps. 887 AS in Cook will be given away to the 38th nerson who answes this advertisement, denotions the Canadan Pannen. Band to day. Address

A. B. GLARK & SON, Port Morris, N. J.

# FOR THE

ed Kar Drums ours Denfuests all stages. Recommended from Write for illustrated Descriptive mick and test or and peominent men and win on who have been cured, and them. They are unresu while in sec. could reable to year st.—WEST & OO. 7 Murray St. New York.

## CANADA WES LAND AGENCY CO.

Capital, \$100,000.

Hon. G. W. Allan, President.

. H. Campbell, Esq., Vice-President.

J. R. ADAMSON, Manager.

OFFICES, - - 14 Adelaide St East, Toronto.

This Company take particulars of farms and other properties from the owners, and advertises very largely, both here and in the Old Country, and has become two recognized modium for the disposal of all kinds of real estate. They sell only on commission, and do not hold any real estate of their own.

2231—The "Merrills Farm," on naining 100 acres, of which 65 are cleared and 4 free from stumps; there are 15 acres mendow; remainder is wooded with beech, mayle decising a fire y and sandy loan, nicely rolling and easily worked; it has a spring and the wells are classed how the house; forces are rail, dwelling frame, or blick four-dation, routed with singles; it store, s. 34x18; contains 6 rooms and a kitchen 18x3; in good repair; frame them, on blocks, 34x10; these amount to 312, with 5 days road work; it is on the gravel rout, 3 miles from school, that church a within short distance; post office 300 yeard; Norwich, on G. T. R., 4 miles; Brantford, Sancou and Woodstock each 30 miles. Price \$3,000.

#### Grey County-Proton Township.

2404-100 acres, of which 75 are cleared, balance hemicak, codar, edm, otc.; 2 springs and a creek; fences rail. The dwelling is rough cast, containing 6 rooms; also an old log dwelling; barn is log with frame granary 18x4; taxes < 9. Orchard is \$ acre. School 14 in lie; the nearest P. O. is at Cedarville, 2 miles, and the Railroad is at Mount Forest. Price, \$2,850, 2 cash, balance to suit at 6 per cent.

#### Halton County-Nelson Township.

2870—A useful farm of 83 acres, 70 acres cleared, 50 free from stumps; good hardword bush; onlicing and loam; there is a spring and creek, and well at the dwelding; fouces principally rail; dwelling is frame, on stone foundation, 20x30, 14 stories, and contains 6 rooms, with kitchen 20x34, and an extra wing 16x30; also a small dwelling on the north corner of the lot; barn is frame, on stone foundation, 30x35, driving house and stable. Taxes \$13, with 3 days' road work. Orchard, 2 acres, containing apples, pears and cherry trees, all bearing. School and Mothodist church 23x yards distant; English and Presplyterian churches 4 miles; Zimmernan post office, 3 miles; Zimmernan railroad and talegraph offices on the N. & N. W. R. R., 2 miles; Milton 8 miles. Price \$3,000. \$1,000 cash, balance in 6 years, with interest at 7 per cent.

#### Muskoka District—Humphrey Township.

9447—A cheap farm of 100 acres, 30 cleared, 70 in bush, hardwood and pine; soil clay loam, rolling and easily worked. There is a spring and creek, well at house; well ditched, and fenced with rails. Frame dwelling on ston: foundation 30200, 13 storeys, 5 rooms; new frame bass 32209, stone foundation. Taxes \$2, and 9 days' road work; on gravel road, convenient to churches, school and P. O. at Ashdown, telegraph office at Rossean, 13 miles; buildings stone worth-the money, Frice, \$500; \$300 cash, balance in three years with interest at 7 per cent.

#### Norfolk County-Walsingham Township.

2449—Good farm, 141 scree, 70 cleared and free from atumps, 30 in good hardwood bush; soft partly olay loam and pa: 'ly sandy loam: spring and wells at the lique; fences are principally rail; frame house on stone foundation, 18330, 2 storeys, 20 rooms, cellar containing brick well 10320, outside kitchen 14730; wing 18119, all in good repair; frame term 50x0, cellar underneath on stone foundation with oak sills. Barn No. 3, 30x0 near which is a living stroam. Taxes 533 and 5 days road work; 2 orchards of 4 scree, containing 200 apple, 300 pear and cherry trees all bearing; gravel road 44 miles, school 34 miles. Euglish and Heptist churches 3 miles, traylyterian 18 miles, shothodist 5. Rowan Milli post office 2 miles; telegraph office and market town at Port Rowan, 9 miles. Price \$7,000; half cash, balance in from 8 to 10 years at 7 per cent.

#### Oxford County-North Norwich Township.

2210—Fine stock, dairying, or grain farm of 215 acres; 180 cleared and free from stumps, 25 in bush, consisting of beech, maple, oak, elm, sah, etc. Soil is clay loam, gently rolling and easily work? 1; it is watered by a creek, 2 wells and cistern; well ditened, and funced with rolls, placets and beard; dwelling is frame, on stone foundation, roofed with abingles, 25 200, 13 storays, with 7 rooms, litchem 2018, and cellar 18235—16 good requir; 2 frame burns, each 31250, on stone foundations; drive bern, frame, on stone foundation, 00285; with basement stable, also chered house, with apparetus. The orchard covers 5 acres, containing about 500 trees, embracing apples, pears, cherries, plums, peaches, also grapes and berries. There is a winduill ou the place which supplies the house and barns with water. It is on a gravel road, 2 miles from school and within casy clistance of churches, esc.; Springford i miles, Norwich (on G. F.R.) 3 miles. Price \$12,001; \$6,702 ceah and belance to suit with interest at 7 per cent.

#### Simcoe County-Innisifil Township.

2000—The "Big Bay Point Ferm" contains 1774 acros, 98 cleared, 25 fice from Liumpa. There is a fine pine grow, the rest of the timber being beech, maple, butternut; the soil varies from clay loam to heavy clay; the farm bas lake fromesce; there is a well at the house, and 4 a mile of ditching done. The dwalling is of frame on stone foundation; 2 wings, 20x25 and 9242; 2 across and eslier, 10x20, and a kitchen 12x13. There is also a frame cottage on the place, 12x32; across bars, 50x45, on stone foundation. There is also a log stable, 43x21; cow shed, 12x12; waggon shed, 12x25; hay shed, 60x13; stone root house, 50x14. Taxes, 595, and nine days road work. Orchard of 12 acros, containing 100 trees of all varieties; the farm is 2 miles from gravel road an 4 miles from school. The English church is 74 miles; Methodist, 4 miles; Palaswich PO., Craig Vale 1t. R. and selegraph office 8 miles on the N.R.R., and Barrie 12 miles. Price, 29,000; 54,500 cash, bulance in 4 years with interest at 62 per cent.

#### Welland County-Pelham Township.

Welland County—Pelnem Township.

3664—This very valuable properly, known as the "Ridgorille Fruit Farm." containing 35 acree, all of which are cleared and 6 seeded down; fences are rail and picket; dwelling house is of frame, on stone foundation, roofed with shingles, 45x45, 2 store; a and 10 rooms; cellars underneath whole of house, 45x45; kitchen outside main building, 3 x30—all in capital repair; barns frame, 40x59, on stone foundation, with root cellar and cowstable underneath; also fow house, 30x15; loo house, 15x16; cosch house and stables, 30x40; shed containing barn and stables, 45x20—all in good repair; taxes amount to \$33 and 9 days road work; orchard contains, with the following fruit, viz.: about 1,800 grape vines, 1,300 peach trees, 200 apples, 30 pasts, 21 plums, and about a half-erro of strawberries and respherries—all bearing; the farm is cituated on the gravol road; school 15 miles away; churches of all denominations about 15 miles; post office, 50 feet, telegraph 15 miles; Welland, the railroad station and market, 6 miles, is altuated on the Welland Railway. Price, 28,500; 35,600 cash, balance in 10 years, with interest at 6 per cent.

#### Wellington County-Luther Township.

695—A good farm of 302 acres; 45 cleared, under outlivation and well fenced; balance, 135 acres callent hardwood land, heavily timbered with maple, beech, edus, hemicek and basewood, and of first-class padar and valuable mixed timber; this is a particularly good lot, it is a corner can easily be divided into two farms of 100 acres each, good rail fences, 11 miles from comes, and one mile from school house; there is a spicnoid new fraide in 1888, 30722 comes, well finished; new frame barn, about 38x11; log stables on the promises.

'am Journal,' issued by the Company contains over 2,500 properties, princi-am and to any address ou receipt of 3 cent stamp.

J. R. ADAMSON, Runnger, Toronto, Ont.

## INTELLIGENT FARMERS

have acted on our advertisement appearing weekly in this paper for the last three years and used our

## CYPSUM, OR Pure LAND PLASTER

Will all bear us out in coying it is by far

#### The Best and Cheapest Fertilizer in the World

on any class of land and especially when used with manuro and on manuro heaps, and that our Grenum, prepared and partited by a patent process, not used classifier in Canada, is a florally that to tim the country, being 30 percent botter than the impute Grey variety.

#### THE PIMONIAL.

To W. H. M: first.

We not members of Darlington Union Grange take pleasure in recommending to the farmers of Ontario your Plaster as a fertilizer, as no used a quantity last year to our satisfaction.

JESSE TRULL, Master: MARK MUSDLY, Sec.

L. VANUAMP, Overseer: T. VANUAMP, W. FOLKY.

W. HAMILTON MERRITT Office: Grand River Plaster Company, 15 Toronto St., TORONTO, ONT.

# CANADIAN FARMER

-IS THE-

ONLY WEEKLY AGRICULTURAL PAPER IN THE DOMINION,

## THE CANADIAN FARMER

Is Mustrated with Cuts of Fine Stock, Poultry, Plans, Buildings, Appliances, &c. and their helps.—Well up to the times.

# THE CANADIAN FARMER

Contains the Best Practical Information, obtained from the Most Reliable Sources on matters pertaining to the Farm and Carden, to the Dairy and Hencry, to the Home and Hearth.

The Agricultural Paper of Canada.

ADDRESS ALL LETTERS AND COMMUNICATIONS TO THE

CANADIAN FARMER.

WELLAND, ONTARIO.

New Eighberries, New Blackberries,
New Eighberries, New Cirrants & Grapes,
2000 FLANTS: FAIR PRICES!

Later Description of the Control of the

(Please mention this paper.)

T. C. ROBINSON,