

# AND ORGAN OF THE ONTARIO BEE-KEEPERS' ASSOCIATION.

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WELLAND, ONT., WEDNESDAY, JULY 2, 1884.

TERMS:

ONE DOLLAR Por Aunum

MARY ANNE OF ST. LAMBERT, 9770, A. J. C.

Dropped March 26, 1879. After dropping third calf was tested for butter for nearly a year. Test began May 29, 1883, and ended May 3rd, 1884, eleven months and 5 days. Total quantity of butter, S67 lbs., 142 ozs., ready for market. Total quantity of milk, 8,470 lbs., 191 ozs. She was served by Canada's John Bull immediately after her great official test, Sept. 23rd to Sept. 29th, seven days, when she made 27 lbs., 74 ozs. First half of this week she made 12 lbs., 13 ozs. when on much lighter diet, but in the last three and a half days on heavier feed she made 14 lbs., 121 ozs. She was served but once only, immediately after this test, showing she had not suffered by the feeding or she would not have held.

Her two full sisters tested as follows: Naind of St. Lambert, 22 lbs., 21 ozs.; Crocus of St. Lambert, 17 lbs., 12 ozs.; average for three full sisters, 22 lbs.,

DOES SALT INCREASE THE WEIGHT OF BUTTER.

We publish the following from the Braders' Gazette because of its direct bearing on the question of shortage as between creameries and their patrons. Many claim that their cream overruns, and are entirely hovest in their claim, whilst it has long been clear to us, that were their butter prepared for a distant market as is that of the creameries, there would be in many cases a shor'age :

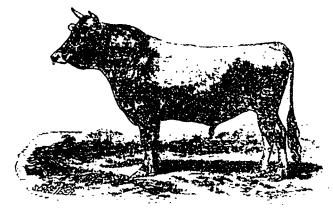
"The question whether the tests should be made in salted or unsalted butter is one deserving of brief discussion. My own experience is, that unsalted butter is a very uncertain quantity, and whether it will gain or lose by salting depends largely upon how it is worked before the salt is put in. One morning last summer two or three friends met at my dairy. While there the question was raised whether butter gained or lost in salting. The cream for the herd was placed in two churns and churned simultaneously. Butter come first in the small churn, coarse grained and yellow, and was washed in several waters, worked dry in a Reid butter worker, and weighed. It was then salted, the salt being weighed in, one ounce to the pound, was reworked and reweighed. It was a strictly gilt-edged article and was immediately packed for shipment. Here are the weights.

Unsailed, well-washed dry butter... Loss in ounces...

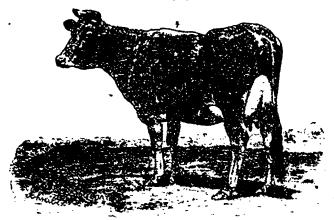
Particular attention is saked to the other

churping. The butter came too soft, but of excellent color, and was treated precisely like the other sample, except that it was it would seem about as dry as the other, too soft to be passed through the butter- and to need only cooling in order to be worker, and the salt was worked in, and marketable. But my dairyman at once the water and brine apparently thoroughly worked out by hand.

This sample was too soft for packing or making into rolls, but to a canual observer pronounced it full of moisture, and ineisted that it be put aside and reworked the next day. I therefore took charge of it, and next morning it was reworked and



THALMA, 4,288.



MAID OF ST. LAMBERT, 12,965.

Statement of Committee appoints thy the American Jersey Cuttle Club to take a test of the Jersey cow "Naind of St. Lampert" (1295). Weightabout 55) pounds.

| Datos.     | Weather.  | Temperature. |              |      | atilk. |     | Churnings               | Lutter. |              |        |       |                            |
|------------|-----------|--------------|--------------|------|--------|-----|-------------------------|---------|--------------|--------|-------|----------------------------|
|            |           | Air.         | Cow<br>P. M. | AM.  | P.M    | i   |                         | Uns     | alt'd<br>nz. |        | itod. | Witnessel by               |
| Juno       | Fair.     | :<br>:       | Stri         | pped | q12    |     | !                       |         |              |        |       | ME Wold.                   |
| 6th.       | Fair.     | 80 deg.      | i '          | 172  | 21     | 2-1 |                         |         |              |        |       | Wold & H E Al-             |
| 7th.       | Fair.     | 70 deg.      | 102.5        | 163  | 15     | 313 | Cresm<br>from mili      |         | •            | [<br>[ |       | ' vord.<br> Weld & Alverd. |
| 8th.       | Fair.     | 86 deg.      | 102.2        | 163  | 195    | i.  | week 1.7                |         |              | ļ      |       | Weld & Alvord              |
| 9th.       | Showers.  |              |              | 1.9  |        |     | ibs. 3 ield-<br>ed.     | 1)      | 12           | 10     | 1/1   | Well & Alverd.             |
| 9th.       |           | 83 deg.      | 102          |      | 14]    | ::3 | ;<br>                   |         |              | 1      |       | Weld & Alvord.             |
| 10th.      | Cold rain | 60 deg.      | 100          | 213  | 174    |     | from milk               |         |              | !<br>! |       | Weld & Alvord.             |
| 11th.      | Cold fog. | 68 deg.      | 101          | 213  | 22     | 434 | offinithalf<br>wook 140 |         |              | <br>   |       | Weld & Alvord.             |
| 12th.      | Very for  | G 307.       | 101.2        | သ    | 23     | 47  | ibs. Sicid-<br>cd.      | 10      | 111          | 11     | 4     | Wold and H. H. Fuller.     |
| Seven days |           |              |              |      |        | 0.7 | llamile                 | 11      | 71           | 9)     | 01    | ruller.                    |

weighed again, making only 26.084 of strictly marketable butter.

Here we have an apparent gain in the first instance of seventeen ounces, but a final loss from original uncalted weight of 27 ounces, and from extreme salted weight, while soft, of forty-four ounces, nearly 1 ounce and 12 ounces to the pound respectively. This is rather an extreme

Subsequent experiments led me to the following conclusions:

lit. That if the butter is unwashed or is washed in clear water, it will lose by salting, and the loss will average from onehalf to one ounce to the pound.

2od. That if it is washed in a brine of moderate strength it will gain by saltingseldom, however, as much as one-balf ounce to the pound.

3rd. That if washed in a very strong brine it will gain about the weight of the added salt, but will contain quite too much salt to be a first-class table-butter.

4th. That if the butter is worked, washed and salted in the usual manner, then set aside for twenty-four hours and reworked, it will be fair to compare it with any other sample that has been similarly treated. On several occasions I weighed ten pounds of butter apparently ready for the market, kept it twenty-four hours, reworked and teweighed it. The loss in one instance was as much as four ounces. This was in very cold weather at midwinter. There would probably be less loss during spring and summer, as the salt would strike through the butter more

The Guernsoys are to have their herd book in E gland, where a hopeful future is expected for this fine dairy breed. It appears that dairying is now looked upon as the most profitable department of agriculture in Britain.

For cows that do not clean properly the following is recommended :- Take parsnips, cut up fine, a little bran sprinkled over, and give about half a bucketful at a time. It is an excellent feed at any time and makes the finest of butter.

Application has been made to the customs department at Ottawa, to allow the importation of an article called tea dust. An analysis of this article shows it to be composed of tea, a plentiful admixture of sand, and other ingredients. The inland revenue authorities decided that the article was injurious to the public health and coula not be admitted into Canada.

Will Mr. Cornelius Smith, of Elm Grovo Apiary, please send us his P. O. address.

### STOCK.

### For the Canadian Fanuen: HORSK BREEDING.

At the request of the editor of the Can-ADIAN FARMER, I will give you a few ideas on horse breeding. Being a practical farmer myself and considerably interested in buying and breeding. I have had occasion to visit some of the largest breeding establishment on this continent, as well as some of the most extensive sale stables, and from coming in contact with a great many persons whose business brought them thither from every part of America. I have gained some considerable knowledge in regard to horse breeding.

Horse breeding in Canada has paid very well for a number of years back, and by the aid of favorable circumstances Canadian farmers have bred a great many good stock of their kind. In the days of our fathers many used to breed without any definite object in view, and to-day among a great many farmers the raising of a really good horse is more a matter of chance than of calculation. A draught mare is bred to a trotter and if the progeny does not turn out to be a trotter the stalion is condemned. Again, a fine bred mare is bred to a heavy draught horse and a sixteen or eighteen hundred horse is expected as the result. If they do not get it (which is a mere matter of chance) they come to the conclusion that a dunghill is just as good.

One of the great points of success in all things is to start right and in no respect is this more essential than in breeding. To raise good horses good must be bred from It is all important that a clear, distinct and well-defined purpose must be kept in view if we wish to produce a first-class horse of any kind. The average run of farmers, I am sorry to say, if they have an old broken down mare that is unfit for labor no matter how coarse, or badly formed, or unsound she may be, she is kept on the farm to breed from. Again, the cheapest horse that travels the roads, no difference whether there is any good points about him or not, so long as he is fat and sleek, is selected and employed to breed from. The result is a good-for-nothing mongrel horse, constitutionally unsound, and although it costs just as much to raise him, be is not worth over one quarter as much as a good one, and commands a price of from twenty to one hundred dollars at maturity. Whereas a good, sound, well-bred animal could just as well have been raised with the same care and feed, with but a slight advance, on first cost, that would have commanded from two hundred to a thousand dollars at the same age. The most ignorant farmer is particular to select the finest and largest ears of corn of the best varieties for seed, because he believes it to be true economy, yet many farmers utterly disregard this law of prudence in the breeding of horses and farm stock in general. The law of like producing like is inexorable. Conse. quently, if we wish to raise a good draught colt we select a good, large well-bred mare (if we can find one) free from taint, blemish or other objections, and secure the service of a pure-bred horse, either Percheron, Clyde or Shire, as the case may be, and in no case breed from a grade or mongrel where a pure-bred horse is obtain-

cause. The same rule holds good in breeding trotters. Select only the best mares of good train of trutting blood, those of good form, size and style, and above all other qualities do not fail to have them sound : emi loy only pure-bred trotting stallions of the highest types of excellence and form, winning stock or still better themselves winners, and the result will be generally satisfactory, as it has been ascertained by actual experience that they have the power to transmit speed at the trotting gait. A great many breeders of horses are under the impression that crossing a tretting bred mare with a blood horse will produce a trotter. This has almost invariably proved to be a mistake, and it is now universally acknowledged, among intelligent breeders, that it is necessary to breed each class of horses distinctly if the highest standard of excellence is hoped to be reached. In some countries in Europe the breeding of horses is controlled by the the government, each one having large breeding establishments where those wishing can procure sound stallions devoid of all heredithry disease. Each stallion is furnished with a certificate from the government. No other stallions are allowed to be used for breeding under a penalty. The result is that you will scarcely find an unsound horse except by accident. Hereditary diseases such as spavin, ringbone, carb, roarers, heaves, etc., is scarcely known. If our Ontario Legislature wished to do the farmers and breeders of this province a real and lasting benefit, they would enact such laws by appointing competent inspectors to grant licenses to those free from blemish or hereditary diseases or unsoundness, and to those horses that have at least a reasonable amount of good breeding. A few years, breeding under such restrictions would materially increase the value of horses in this province and be a real blessing to owners and the country. Of course we could hardly expect such a law to emenate from such a source, as the government is composed of lawyers, doctors and other professional men, who know little of the requirements of the farmers and care still less, as there is more money in looking after the business of large corporations such as railways, &c. J. A. R.

### THE TEXAS SLAUGHTER-HOUSE.

Let us now see what becomes of the cattle as they pass into the hands of the butcher. This term is also somewhat of a "misnomer" when applied to the present system of dressing beef, but we will let it stand, for the want of a more intelligible designation. There are two distinct departments in the large establishments of the day, vir, the "chipping" and the "canning." Into the former come the choice corn-fed animals from the great cercal districts of what can hardly now be called the "far West," as well as the best "grass" cattle which have had the run of the summer ranges. The latter receives most of the "through Texans," the old cows, and the "scrubs and "culls" from the better lots. The process of slaughtering each is substantially the same up to a certain point, where the inferior quality passes from the killing to the canning house.

As we came within the gate we reach first the outer inclosure or pen, where may able, no matter how low the fee may be be gathered one hundred head of choice for the services of the mongrel. I have "shippers" They come in quickly and adopted this plan of breeding and have without excitement, and in a few minutes nover raised a colt in my life that was perhaps one third of them are driven into

is boarded up with heavy plank about eir or seven feet high, and open at the top, along which we walk on a supple plank running from end to end. As an animal is wanted, a slide door opens, and he passes into the pen nearest him. Here he stands, unconscious of the fate that awaits him, and that his executioner is at that moment loading the fatal weapon above his head and a mild-looking man with a short carbine in his hand drops the muzzle to a point in the centre of the forehead, just below the horns, and pulls the trigger. This steer falls without a struggle or a groan, and he passes on to the next, taking the life of half a dezen in a couple of minutes, more or less. The door at the other and of the pen is raised, a booking chain passed around the neck, and the animal is drawn out upon a broad platform about fourteen feet wide, at the bottom of which runs a shallow trough to catch the blood. Suspended by the bindfeet, the sticking-knife completes the bleeding process, and then two men step forward and disconnect the head. Four follow, stripping down the hide-two others, in the meanwhile, taking off the feet. Sawing the breast and haunch bones is the next operation, and then the carcass is hoisted preparatory to taking out the inwards. This accomplished, a number are detailed to do the trimming, cleaning and turning to account every scrap and particle connected with the animal, so that nothing is wasted, down to the horns and hoofs. While these several operations are in progress the caucass has been moving along a distance of some two hundred feet, being attached to a track overhead. The men at work maintain their relative positions as one after auother of the carcaeses come before them, and in the brief space of fourteen minutes from the time of the fatal shot the animal is hung up, "drawn and quartered," and then left to cool in the chill room for forty-eight hours preparatory to shipping. Twenty different processes take place in the course of the fourteen minutes aforcsaid, and ninety men are engaged in it. The average weight of this class of cattle, as brought into the claughter-house, is 1250 pounds, and during the summer season five hundred head are killed daily in the nine hours allotted to the work .-Harper's Magazine.

### CHEWING THE CUD.

Every child hving in the country has stood and watched this curious operation, and wondered what the lump was which he saw come up in the cow's throat, and then go down sgain after she had chewed it for a certain length of time. And perhans he may have seen the anxiety and turmoil produced on a farm by the report that some one of the cows had "lost her cud," and as the result of this excitement he may have seen the absurd attempt to "make a new cud," in the hope that the cow would by such means be restored to good condition. There is in the minds of a large proportion of our readers so little correct understanding of the true nature concerning it may not be amiss.

A very large tribe of animals, of which sheep and cows are only familiar examples, are called in works of natural his-

pens, where each one is in a few minutes, it; they can get their nourishment in no to meet his death. This part of the pard other way. They have, it is said in the booke, four stomache, but the statement is not strictly correct, for the entire digestion is done in a single one, that which is called the fourth, the other three being only places for preparatory work. Their food is swallowed without being chowed; the chewing is to come later. When this unchewed food is swallowed it passes directly into the first stomach, to use the common term; but the drink which the animal takes goes straight past the entrance of the first into the second. These two serve only to soak and soften the coarse food. When the first has done what it can, the food passes out of it into the second, and then the cow or sheep is ready to "chew the cud."

> The second stomach, while builty at work in soaking the food, keeps it in motion, and gradually rolls it up into masses, so that in the small upper part there is formed an oblong solid lump of the sze that we recognize as the "cud," This the animal throws up into the mouth, and chews with evidently as much satisfaction as the same act of mastication gives when we put the most delicate morsels between our teeth. When it is sufficiently chewed. the mass is swallowed and its place taken by another which had been rolled up in the mean time.

> But the "cud" thus masticated does not return to the second stomach, from which it had come. It passes smoothly into the third, a place for additional lubrication, and then into the fourth, where the true digestion begins and ends.

> This is, in brief, the whole story, and we see how naturally the chewing comes in; it is the same as in our own case, only that it is at a different stage of the food's progress. And we see also what "losing the cud "really is. The cow or sheep is suffering from indigestion; the "second stomach" has failed to roll up the little masess suitable for chewing, and there is nothing which the poor beast can bring up. Of course, therefore, the one thing required is to restore the tone and power of the stomach: not to burden it with an "artificial cud." which would only increase the difficulty instead of relieving it. - Scientific American.

### HORSE STABLING.

Stable accommodation is very imperfect in many farms. The only rule by which the length of a stable can be regulated is the number of stalls required, and these should never be less than from five feet six inches to six feet wide. It is desirable that the width for farm horses be at least eighteen feet, in order that ample space may be available behind them. It has for sometime been, and still ought to be, a desideratum in the construction of the stable to have the walls built high-it may be higher than any other portion of the farm steading-and the apex of the roof "open." When the building is high and "open" horses thrive much better than in stables which are small and close. Small stables are very objectionable, being generally badly ventilated and injurious to the equine constitution. The temperature of "chewing the cud," that a few words in the stable should be about 53 degrees in winter and from 55 to 60 degrees in summer. Purity of atmosphere is essential to the strong, healthy and mucular development of all animals, and especially horses. tory Ruminantia because they all ruminate. The partitions between the horses should they chew the cud. They do so because never be shorter than about nine feet, two blemished or unsaleable from any other a narrow alloway adjoining the single their peculiar organs of digestion require feet of which is required for the manger.

### FAMILY CIRCLE.

### HERE THEY ARE AGAIN

Oh! the skeeter, the beautiful skeeter, lilling the air with melodious meter, Under our hat, and tickling our nose. Taking a bite through a hele in our clothes, In through the window, or the open door, Filling our chamber, singing the sweeter, Ever is found the untiring muskector!

### THE YEARS TO DE.

O grandour of the years to be O future all sublime! Fulfilled within thyself we see The promises of time! There bloom within thy balmy air The rarest flowers of speech, And action in thy sun shall bear The sweetest fruit for each!

We sow the goodly seed to-day Thy many bands shall reap; We give the golden grain away Thy garners soon shall hear t Slight recomponse shall carn Thy harrest time shall only yield The glorious return !

Thy nights with newer star shall blaze, Thy suns shall brighter glow: No gladder, grander yesterlays Thy consciousness shall know, Thy song shall be a peangrand, Borne proudly on the breeze, Be echood over every land, And wafted o'er the seas.

We plant to-day a single tree. Or drop a single seed, And millions in the year to be Shall praise the simple deed. The thing we do outreaches far Boyond our farthest thought. The toilings of the present are The freest blessing fraught !

With thy now thought, O years to bo! Shall beam a brighter mor And manhood with thy dawn shall see Its truest being, born t The earth will ring thy coming in With gladdest peal on peal, For then shall cloriously havin Humanity's bost woal!

And then shall all the echoes cheer Man's rapid onward march: For him ancolic hands shall roar A grand triumphal arch ! No land shall know a desort bare. No trackless waste a sea The world shall smile a garden fair Within the years to bo!

### FASITION FANCIES.

For travelling gloves we see very stout kld with long wrists.

Buttoned glace kid gloves were never more fashionable than at this moment.

Opera slippers are now made with rounded toes and cut excedingly low on the fest.

Ladies are begining to discard the Mother Hubbard wrapper, and are adopting the Watteau with roke back.

White sattin is very durable, also plain linen lawns, and embroidery is much more used on these dresses this season than lace.

Ten-table cloths and napkins come in sunts in very pretty colors. The small fruit napkins should be hemmed and of very fine damask.

Plain pongee is worn in combination this season, but the prettiest suits are the eeru pongee, hand embroidered. These dresses wear well and clean beautifully.

Ecru and flesh-tinted hose are again creeping into notice, and gray is being much sought after. Black will still hold its claim to every well-dressed lady's toilet.

Hats are large but not exaggerated in size, the forms resembling the Tyrolean derby, the directoire and the broad brimmed Leghorn flat of a quarter of a century

India silks are much sought after this spring, and are shown with both silk and satin finish in delicate ground colors, on which the designs are principally floral and in natural colors.

Wide lace in cascade, interspersed with | first with any kind of yeast.

knots of ribbons, is a much favored trimm ing for evening dresses, around panels and the neck, when cut square, also down the front of the basque.

We flud a velvet vest, collar and cuffs on the newest beaded Jerseys, though most of the ladies prefer the a'l j tted ones. These are expensive but be utif il, and extremely becoming to the form.

Brocaded grenadine can be had now of all colors outlined with self-colored beads.

Valonciennes lace is a more dressy trimiming on Swiss muslin dresses than the oriental.

Nothing can be prettier for midsummer wear at watering places than the new shirred white and corn mull hat.

A new light-gray cloth dress, made with a polonaise, is heavily braided with silver on the vest and panels of skirt.

An elegant new screen has on the bough of its painted tree a real stuffed owl perched and celmly contemplating a golden moon in the right corner.

Scrim, which coines in brilliant colors fifty inches wide, and only 9 cents a yard, ts in great demand for window, door and bed drapery for summer use.

# KEEPING HAMS THROUGH THE BUNNES.

It is somewhat difficult to guard hams from flies through the summer, however well cured and smoked. The smoke-house, if well made, preserves them, and this is the more common place of deposit with those who smoke their own hams. But multitudes have on hand a season's supply of hams and shoulders. They keep much better in a dry atmosphere. If sugar-cured hame are purchased, the cloth that covers them is a sufficient protection against insects. If the hams are home-cured, they can be covered with cloth at small expense, or even with a bag of thick paper tied tight at the top, around the string by which they are suspended. If hung in a dry, cool place, they will not mould, and will always be on hand for the staple of a hearty meal, in any emergency of the family. Farmers generally make their own meat, and cure it, and, with a good recipe for curing, secure better hams than they can purchase, and at less cost. It pays to keep the larder well stocked with

### BREAD MAKING-ASPHALTUM.

A woman came along, offering a new process for yeast at 50 cents. The bread she had with her was so good that I was mounted upon a equare of blue or pink induced to try it, and as there was no request of secrecy, I will give it for the benefit of your many readers.

Excelsior yeast .- Pare and boil enough potatoes to make a pint when smashed. While yet very warm, mix thoroughly with it two tablespoonfuls augar and a teaspoonful salt. Then save the starter for next time.

Bread.-Scald one tablespoonful of flour with the potato water. When lukewarm, add the gem and the remainder of the potato and sugar. Set to rise over night. Then knead twice-that is, mould up: let rise; then make out into loaves, let rise, and bake.

The "gem" she gave to start with was about the size of an egg. I use about half a teacupful for six or seven loaves baker's size; if too much yeast is used, the bread will not be so good. I have used many kinds of yet; but never had bread rise so quick and be so tender and fine-grained as this was. I suppose it could be started at

### HINTS FOR THE HOME.

### A PRETTY TABLE COVER.

For the sitting room table a pretty cover can be made at small expense. Get a square of cardinal flamel of good quality, and that which is commonly called double width, around this put a broad band of velveteen of the same color but of a darker shade, then put flannel around this to the depth of four inches, this may be pinked around the edge. As for ornamentation it may be indulged in to any extent, but it is a pretty spread with the plain band, or with feather stitching on either side of the band.

### HOW TO PRESERVE ECUS.

Eggs may be preserved by covering them with a little oil or butter, or with a thin coating of collodion dissolved in ether; but the most common method of preserving them, is by putting them, when quite fresh, into milk of lime, rejecting those which do not readily sink in the water, or which are cracked. The preservative action is no doubt due to the formation of carbonate of lime, within the pores of the shell, whereby the exclusion of atmospheric oxygen is secured. Some time ago when a sacristy was pulled down in Italy, eggs quite fresh were found imbedded in the mortar, which had existed for three hundred years. This proves the antiseptic power of lime.

### TIDIES.

Checkerboard tidies are very fashionable in England. They are made by weaving two shades of inch-wide ribbon in and out to form squares. The ribbons can be pinned at the top to a stiffened linen tablecloth or to a brown paper laid on a table. and so held in place while the cross strips are woven in and pinned in place till all are in, when the pins may be replaced by stitches. Sometimes a daisy or star, in colored silk, is worked upon each intersection. The tidy may be edged with lace, or three sides may be finished by having the end of each piece of ribbon doubled up in a loop, and the lower edge ornamented with a fringe.

Another basket-woven tidy is made in the same way, of footing less than threefourths of an inch wide. A double crossstich in white linen floss is worked on each equare, an edge of Breton or Ociental lace is sewed on all around, and the tidy is satin and ornamented with a bow of ribbon of the same color.

A pretty tidy, which looks very fragile, while it is really very durable, is made of black Brussels net (not tulle), which is not, as clerks in fancy stores would have you believe, the same thing by any means. The lace is cut in the desired size and scalloped all around in a loose button-hole stitch with scarlet floss-silk. Inside the rows of scallop, four rows of darning follow its outline, and a square pattern in darning stitch ornaments the centre, or a hollow square is made in Greek or scroll pattern, and an initial or monogram, embroidered in satin stitch in the centre. A tidy can be made of white Bruesels net by darning it in diagonal rows till it is covered with white split zephyr. The net for this should be very coarse, more like mosquite not than lace. Valenciennes lace vill finish the edge prettily.

A rich looking tidy can be made of aquare of crazy work set in a frame of dark volvet.

The most elegant tidy I have ever seen was made of real point lace and exquisitely embroidered cambric. But I confess to a desire to steal it and wear it for a fichu.

A long tilly for a sofa back is handsome when made of equares of fine antique lace and satiumbbons. An oblong piece may be bought for the centre, and the points of the edge laid over the satin and sewed in plain by invisible stitches. Onteide of the ribben may be lace inserting, with lace equares forming the corners, and a more or less wide lace edging, according to size of sofa, put around the whole.

Macreme twine, in all colors, makes handsome and servicable tidies, especially when combined with ribbons. The tied ones are rather difficult to make, and demand particular instructions. Those which are knitted of the finer quality of thread are very pleasing when made in stripes, alternating with ribbon stripes. Crocheted twine tidies are too common to need much mention, but, although common, they are desirable. The prettiest of them are worked in shell-stitch with frequent openings for wide ribbons to be run in. Each ribbon hangs below the lower edge and bears a little ornamental ball to fall over the twine fringe, which is crocheted separately or tied in. In either case the strands should be unravelled all the way, or the cord will curl and hang untidily.

### SHAWL BAGS.

A bag is a capital thing to save a shawl from the dust of a journey, and, if of good size, can be used for holding toilet articles, etc. The best material for making shawl bags is brown waterproof. Cut two round end pieces eight inches in diameter, and a piece twenty inches wide by twentyfive inches tong. Stitch these together, leaving the straight seam open nearly all the way across, and bind its edges and the edges of the end-pieces with worsted braid, sewed on with the machine. Close the opening with three buttons and buttonholes. Stitch a piece of braid on a band of the waterproof two inches wide, and fasten on firmly for handles. The outside pocket can be made of any size, or left off, but is very convenient for papers. A person while travelling will never wish to be without one of the shawl bage, after finding out how useful they are.

Send 50 cents and get the FARMER from now until January, 1885.

A strip of flannel or a napkin folded lengthwise and dipped in not water and wrung out, and then hung around the neck of a child that has croup will usually bring relief in ten minutes.

Indolence is a sort of second nature to many of us, which it takes a great deal of will power to uproot and supplant. Not being compelled by stress of circumstance to do a thing becomes with us sufficient reason why we should not do it until necessity becomes the only spar that can goad us on to action.

A towel folded several times, and dipped in hot water and wrung out and applied over the seat of the pain in toothache or neuralgia will generally afford prompt relief. This treatment in colic works almost like magic. I have seen cases that have resisted other treatment for hours, yield to this in ten minutes. There is nothing that will so promptly cut short a congestion of the lung, sore throat, rheumatiaro, as hot water water when applied promptly thoroughly.

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### APTARY.

### OFFICERS OF THE ONTARIO BEE. BERPERS ASSOCIATION,

President, Mr. B. Corne II, Lindsay; 1st Vice-President, J. B. Hall, Woodstock; 2nd Vice-President, Dr. Thom, Streetsville; Soc. ctary-Treasurer, Mr. Jacob Epunce, Toronto.

Executive Committee-M. Ramer. Codar Grove; D. Chalmers, Musselburg; O. Mitched, Listowell; B. Davidson, Uxbridge; W. E. V. ells Phillipstown. Communications on the business of the asso-ciation, and boo-keepers' department of the Canadian Farman to be addressed to the Secre-tary-Treasurer, 251 Parliament St., Toronto.

### NEW VARIETIES OF HONEY BEES.

Through the efforts of Messrs. D. A. Jones, Frank Benton, and others, who have spent much time and money in this 'direction, several varieties of bees, new to this country, have been introduced, and their comparative value to some extend tested.

The Cyprians have some marked characteristics. They have been quite thoroughly tested, but do not grow in favor with the majority. They are far to irritable to be agreeable to handle. Some consider them superior honey-gatherers. I have given them quite a thorough trial, and the only point I could find in their favor, was a tendency to breed late in the fall, which is desirable as affording a good force of young bees when going into winter quarters. I have not tested the Syrians. Mr. Benton pronounces them among the very best. The Carniolans are said to possess some very desirable qualities, and a cross between them and the Italians have a good reputation. Much has been said of the Holy Land or Palastine beer, but my own experience does not corroborate all that is claimed for them.

Mr. Julius Hoffman received an importation of Caucasian bees in 1880. He has experimented quite extensively with them and is of the opinion they are superior in many respects. In fact, I have never heard more desirable points claimed for any one variety than Mr. Hoffman claims for these. He is one of our most practical bec-keepers, and his conclusions should be received with confidence. Much credit is due those who have been so persevering in securing to us these new varieties. The ultimate results must be of great good, as the fu ture crossing of these strains will no doubt give us one with a combination of very superior traite. L. C. Roor, Author of "New Bee-Keeping."

### NORFOLK BEE-KEEPERS ASSOCIATION

The fourteenth regular meeting of the above Association was held in Simcoe on the 7th inst. First Vice-President (Mr. Moses A. Kitchen) in the chair. Minutes of the last meeting read and adopted.

Question drawer opened:

- (1) Which is the better for bees, during the time of breeding, honey or pollen? After a full discussion it was decided that both are absolutely necessary.
- (2) What is the cause of so many bees leaving their hive in the spring? There are various causes; but the principle one is a need of supplies.
- (3) When a colony finds itself queebless

colony ! No; for when the bees find that they are without a queen, they are sure to set about reating a queen from larva already eight or nine days old, and which has proviously received no special nourishment; and the result is sure to be an imperfectly developed queen.

The next question that came before the Association, was one concerning adultera, ed honey. Some one had said that a by theeper had placed adulterated honor on the market. A sample of the article bein 3 produced, was examined by experts, and I recounced to be unadulterated, but of an . Eferior quality; having been gathcied later in the season, and not properly cured.

After di konsing other matters pertaining to the Asse ciation, the meeting adjourned to meet aga in at 2 o'clock, on Saturday, the 6th of September, at the residence of Mr. Moses A. Kitchen, on the gravel road between Bloomsburg and Waterford. All are cordially invited to attend.

ELL 18 CLOUSE,

Secretary. Simcoe, 20th June, 1884.

# SUGGESTIONS FOR THIS HONEY SEASON.

The much talked of clover season is here, and bees are hovering over the frag. aut bloom, and drawing up the precious nectar from the tiny wells. Every facility for depositing honey should now be given them, and no colony be allowed to cluster on the outside for want of storage room. As fast as the combs are sealed, remove them, so that their delicate whiteness may not be impaired by the bees traveling over the caps. When the surplus receptacles are filled with comb-builders, and there are more bees clustered on the outside more room should be provided, and they should be given a hint to go in and possess it.

Spritimes bees lotter on the outside beacuse the heat of the hive is too great, and there is danger of the comb melting and breaking clown. Supply all needed ventilation from below, and raise the cover or the cap above the surplus arrangement. It may be necessary at times to shade the hive. No bee-master allows his bees to remain in idleness during the season of flowing nectar.

Bees may be prevented from swarming by many the extractor freely. Some beckeepers my that noney should not be extracted before it is fully ripened and sealed, while others equally successful, practice and recommend extracting before scaling, and evaperate afterwards. This is done in California in large tanks, in the hot sun. The thin honey rises to the top, while the thick is drawn through a gate at the

In order to produce a fine article of extracted clover honey, clean comb should be given the bees at the commencement of the flow, and extracted when sealed, or partially so, and kept entire by itself. No combs partially filled with uncapped larvo should be extracted fre un, for fear of "grub-juice." White clover no ctar is fit to set before a

When the hone ras sealed the bees should be intimidated wit b.a little smoke, and as the frames of colab : are removed from the hive brush the bees will with a feather or little twig, or an asparog as Tranch. Put into a receptacle with a co ner, such as a tin combbasket, or box, and exervey it to the honeyhouse. The capping re can be shaved off with a knife madelfe r the purpose, or with and then rears a queen of its own, is it an old case-knife was within; then put into

can then he exchanged for full once.

A awarm of bees came out this morning (June 16) and commenced clustering in the top of a cherry tree. I anticipated some tall climbing to get them down, and watched to see if I could catch the queen as she issued. In a few moments I noticed the bees returning, when I pesceived the queen among the grass; she was two heavy with eggs to fly, and catching her by the wing, I put her into a live, and renewing the old one from its stand, put the one with the queen in its place, where her subjects soon gathered. The old hive was removed to a now stand, which will probably prevent after-swarming, and the partially fined honey-boxes removed to the new colony to be completed, as it will be very strong on account of occupying the old stand, as all the working fores will return.—Ex.

### A MOVEABLE FIELD OF LABOR.

Sometime ago some one conceived the idea of a floating apiary to move around to different climated as the season and beefood demanded. This did not pay. Lately, however, a new kind of the same morement has aprung up, and we are likely to have movable apiaties.

Mr. M. M. Baldridge, the well-known apiarian of St. Charles, Ill., and Mr. E. T. Flannigan, of St. Clair County, in the same State, last November took to the neighborhood of New Orleans some 300 swarms of bees for wintering. The plan was to keep them there to work in early spring, say to about the second week of June, then thip them north to Kane Co. to feed upon white clover, and other superior honey-producing plants, until the first of August; then move them down to St. Clair County to gather honey from Heart's Eine, Loanish Needle, etc., until cold weather closes honey-gathering. Ĭt will thus be seen that is expected to secure three distinct boney seasons, and if desired, three periods of natural increase. Besides the advantage of an early honey crop it is calculated that in the mild chmate of Louisiana there will be little if any loss in wintering.

The first part of this programme has been carried out, and the 300 colonies, filling two cars, arrived in Chicago on Monday en route for St. Charles, their summer home. Mr. Baldridge informs us that the bees wintered without loss, but that the extreme wet weather along the lower Musissippl greatly interfeared with plant bloom, and that the honey crup was exceedingly light-indeed less than for many years, so he does not consider the profit settled for the first third of the season. The test for the second third will now be entered upon in Kine County.

The freight on bees in quantity from New Orleans to Chicago is about one dullar per hive, to which expense must be added the time and services of the attendants. To take them back, stopping at St. Clair County, will and something to the cost of freight and handling. Apiarists will watch the progress of this new bee We shall report enterprise with interest. in due time as to its results.

### CHIME STRY OF HONEY.

The following able article on the above interesting subject taken from the Country Gentleman .

Naturalists have not yet decided whethtr honey is a secretion of the bee or whether it exists already formed in plants. It is certain that the nectures of flowers advisable to leave this queen with the an extractor, where a few swift turns will contain a saccha rive matter which is ex-

throw out the contents. The empty frames tracted b, the insect, and the fact is well known that the flivor and character of honey are so much affected by the nature of the plants which predominate in the vicinity of the hive, that, when these plants are polsoaous, the fluid sometimes partakes of their novious qualities. Several cases of palsoning from eating honey from a particular source, are recorded in medical literature. Sill, it probably undergoes change in the organs of the bee, as the saccharing matter of the acctaries, so far as it has been possible to examine it. wints some of the characteristic properties of honey.

> Honey is upt to form a crystalline deposit, and to be ultimately converted into a soft, granular mass, being then called " candled " Its specific gravity is Pout 1,23. It contains crystallizable sugar, applogous to that of grafes and accordiag to Prof Souberlan, two other kinds of augar, one of which is changed by seids, and has the property of turning the plane of polarization to the right. The other, and acted on by acids, is possessed of a etting left-hand rotating nower. The first of these two sugars is n it always present, as time is reason to believe that it is in time wholly changed by its acid into granular sugar-candled, It is especially abundant in new pancy. The second variety is very similar to the uncrystallizable sugar produced by the reaction of acids on cane sugar, being identical with it in composition, and, like it, incapable of crystalizing, and very sensitive to the action of alkalies. But it is distinguished by the impossibility of converting it into granular sugar, and by having nearly twice the rotating power of common uncrystallizable sugar. - (Journ. de Pharm. 3d series, xvi, 253.)

> Honey contains, beside the saccharine thoney contains, beside the saccuarine principles, an aroma, an acid, wax and, according to Guibourt, a little mannite (a principle; a 40th part of pure manna). The crystalline sugar may be obtained by treating granular honey with a small quantity of alcohol, which, when expressed takes along with it the other ingredient, leaving the crystals nearly untouched. The same end may be attained by melting the crystal because it acid with the candied honey, saturating its acid with carbonate of lime (chalk), filtering the liquid and setting it aside to crystallize, and washing the crystals with alcohol. Inferior hancy usually contains a large pro-portion of uncrystallizable sugar and vegeportion of uncrystalization sugar and vegetable acid. Samples of came sugar also differ essentially in chemical composition. According to the Chemical Gazete, brown sugar consists of came sugar, associated with variable quantities of hygroscopic moisture, uncrystallizable sugar, gum, albumen, extractive saline matter, and insoluble trganic and inorganic substances. Among the organic substance is a small Among the organic substance is a small proportion of time. By ke 12, it becomes soft, gumny and 1.53 sweet—a change attributed to the lime

Bee-culturists are aware that the great drawback in wintering bees is desentery.
The cause is yet a mooted problem not satisfactorily explained. Poor hovey, such as contains acid, ferments, gum, and all the deleterious substances in excess, inevitably produces morbidity if consumed by bees while in confinement Different samples of honey cannot be distinguished by purity of saccharine, except by snalysis. One bee culturist suspected that dysentery was caused by some deleterious substance that chanced to be collected with honey in some seasons, and he fancied it was "becsome seasons, and he fancied it was "bec-teria." His conclusions as to what the injurious substance is, has not been accepted by others; but the fact that dysentery is attributed to the quality of the honey caten by the bees, is not doubted by in-telligent and experienced apiarists. If acteria sometimes infest samples of honoy it is unsafe to eat it, because the spores might produce as fatal results as follow the enting of trichinous pork, so that honey for table use is attended with more risk of life and health than is the much derided

### FAR M and GARDEN.

For the Canadian Farmen . WAEN TO OUT HAY

BY M. MCGUADE, EGMONDVILLE.

The season for having will soon be at hand, and there are a few seasonable hints and auggestions that may come in about the right time just now. There are two well founded opinions about the best stage of growth at which grass should be cut to make the best hay. Some maintain that when grass is in bloom, is the proper time, but we must bear in mind that all grasses are not in the same stage of development when the blossom first appears; that some kinds bloom but once, and others twice; some for a longer, and others for a shorter period. Red clover will keep in full bloom for from eight days to three weeks, according to the state of the land and the weather. The large or German clover will keep in bloom twice as long as the short red clover, and a difference of two or three weeks will make a great difference in the quality and quantity of the hay. Timothy blooms twice, once with a whitish blossom, and next with a blue one, which differ ten days to two weeks in their appearance. Now, the point to be determined is, at which of these stages should the grass be cut, granting ground and weather to be all right for haying.

Those that main: that at full bloom is the best time to cut, must modify their time by a scale of two weeks, for grass cut at the first blush of the blussom will fall to pieces in drying and handling. This is especially the case with timothy and blue grass. Clover cut at that stage will contain too much water-scarcely any wood tissue, no honey in the blossom, and will shrink to less than half its bulk. In this stage clover is very hard to save, as the slightest dew will injure it very much, and a heavy dew ruin it and cause it to turn black, and lose all its leaves. Timothy cut in the first blossom, is also very easily damaged by dew or a very light shower, and not only shrinks very greatly, but falls in pieces in handling, because there is a piece of the stalk above each joint that is little else than a bundle of skeleton tubes filled with sap, which, when dried, evaporates into thin air, leaves the stalks in pieces, and even the pieces that remain are only like bundles of dried threads with very little weight or matter for food. We have seen hay cut at this early stage, which not only would not hang together to pitch off the load, but was apparently as light and void of nutriment as so much tissue paper, yet it was cut in bloom, but too early.

It will be obvious that the bloom must be well matured before the grass should be cut. Professor Arnold and some others favor cutting at a young stage, and some have tried to follow their teachings. This of persons maintain that grass cut young will remain grass, and yield more nourishment than when more fully grown. There is no doubt that grass is the best feed for cattle, and there is as little doubt that such grasses as blue grass and white clover that mature very early, make the best pasture for the production of heef and butter. Professor Mills declared that no other grass will produce so much beef and butter, and he is right, and the characteristics of this grass is, that it matures an

weeks will be the period at which cows make their best mark in guilt-edge butter, I that only as much should be cut at a time and two year olds cover the sharp angles, as can be saved and housed or stacked In this period the main pasture grass is without dew or rain. It will be always blue grass and white clover, which will rafer to cut a little earlier or later than both ripen their seeds in the order in which they are named.

There is an argument on the authority of the milk pail and butcher shop, in favor of mature grass for feed and to be cut for hay; there are other arguments by a host of advocates, who do not plant their standard on theory or science, but appeal to what they consider irreputable practical experience. The one class appeals to science, the other to experience, and it may sometimes happen that either may go too far, or may begin too soon; but experionce has the greatest weight of authority in its favor, and is more sure to be right. But science and experience should agree, and must support each other as surely as the sill supports the pasts in the hay mow, for science is only nature's law put in words. Where science and practice differ or conflict, the trouble is not between nature and her products, but between men who do not happen to get hold of the right end of the thread or miss some conditions in the circumstances. The advantages in 'avor of having grass pretty well matured for hav are that it will not shrink so much, and that next, that it will cure more rapidly, a quality that is not to be despised, especially if weather should be showery, as it often is in July. The contention in favor of young grass is that it contains less woody tissue, and that woody fibre is indigestable. There is no doubt but grass gets more woody with age, and that the excrement of cattle will show more woody fibre from matured hay than dried young grass, becaus 'here is more to digest and more to 'e Lef'; but this is no argument to prove that woody tissue is indigestible in the stemach of a cow, as it is more difficult to solve in the laboratory. Chemically considered, woody tiesuo is similar in composition to starch and augar, two of the most nutritious substances of food which we have, and science cannot enter the stomach of a living animal to watch the operation, as it would in the crucible or alembic. Science must first destroy the texture of something before it can decide; experience decides by results of observation. Science has decided that the poison of the rattle snake and the white of an egg, are chemically alike, the one a deadly virus, and the other a rich nourishment. Experience of the early settlers of Ontario, has proved that cattle have come through long winters plump and healthy on browse alone, on a simple fodder of wordy fibre alone, with regular rations of salt.

We have given arguments for both sides of the question, but properly speaking, there should be but one opinion, and what that should be, is what is our duty to find out. Some of the most careful feeders declare that they have had the best results with timothy that had been cut when the seed was getting in the milk. That would be a few days after the last blossom had been shed. The general opinion, therefore, avoiding extremer, varies only about four to six days at the most, with regard to timothy and blue grass. And, so far

other point that should be observed, is, run the risk of getting a shower.

### PARM AND GARDEN PESTS.

The season is at hand when farm and garden pests come down upon the crops of the farmers with a vergeance, and it is well to know how to apply a remedy at once and with little expense. The Massachusetts Agricultural Experiment Station have made full investigation upon the question and we present our readers with the result of these icquiries.

Cabbag Fla .- The first insect of importance that appears, is the small black flea, or jumping beetle, that attacks the cabbage, radish, turnip, etc. Dusting with Paris green mixed with one hundred times its weight of plaster has proved an effectual remedy. This Lust be done when the plants are wet, and after every rain.

Cut Worm .- The cut-worm, of which there are several species, including the army werm, works only during the night, and may be destroyed by tho same friendly remedy as above. We would advise a trial of pyrethrum powder mixed with five times its bulk of plaster, as being more safe, although we have no positive proof that it will be effectual.

Striped Squash Bug. - The striped equash bug, which has been so abundant for the past two reasons, is best kept in check by the use of plaster and Paris green. For the family garden the safest and most satisfactory way to overcome them is to make a bottomless box twelve inches equare, and six or eight inches deep, and cover it with morganto netting. One of the boxes placed over each full until the plants have become tough and hard is a sure protection.

The Potato Beetle.-The potato beetle has evidently become a permanent resident among ue. l'aris green extended with plester, thour, or water, is the only cheap and easily applied remedy known, at present, but great care must be exercised in its use, and especially in the place where the package is kept, that it may not get upon the food of animals. London purple is equally efficient.

Cabbage Worm .- The cabbage worm, the larva of the common white butterfly, may be easily destroyed in several ways. That of hand-picking, if begun before the brood has passed into its perfect state, is effectual. We have also found that pyrethrum powder, mixed with five times its bulk of plaster, and dusted into the centre of the leaves with sulphur bellows, is certain destruction to every one of them. The application of insectides in liquids to the cabbages has not been satisfactory on account of the peculiar structure of the leaf surface which allows the water to roll off in drops and not adhere to any part of it. Paris green is unsafe to use after the leaves have become over four inches in diameter.

Current Worm. - The current worm should be destroyed while small, with the dust of hellebore or pyrethrum. The latter being perfectly harmless, is to be more highly recommended than the former.

Plum Weed-There are two certain methods of capturing the plum weevil, the as our own, and the best experience go, the first by Jarring the tree early in the morntime for clover is when the honey is in ing, and catching them upon sheets stretchabundance of seed, that is fitted and most abundance in the blossom, a few of below upon a frame or upon the ground, riponed early. The seed was be inning to days before the blossom begins to fade, and the second by placing chicken coors harden on the 12th of June, this year, Of course, the state of the ground and the under the trees. The former method must traditional economities quite too generally about this time, and for the next three weather must always be consulted. And be attended to regularly every morning for practiced.

three weeks after the plums have set; and in the latter case, if the number off trees is large, a large flock of chickens will be required to make that remedy effectual. .

Colling Moth. - No positive remedy against the ravages of this insect has as yet been found. It is claimed that Paris green sprayed over the tree in water is effectual, but should it prove so it is far too dangerous a remedy to apply where grass or other crops are growing under them.

Apple and Peach Borer -For the destruction of these two insects no sure remedy has been found except the knifer. It is probable that covering the trunk of the tree near the ground with the ink or tar need to catch the moths of the canker worms or wrapping around the trunk bands of terred: paper, would assist in keeping them away.

### CURRANT WORMS.

Take a strong decoction of tobacco, and with a sprinkle apply the same to the bushes. Wash the currents thoroughly before using. I have tried this and I know it is effective, and does not injure. the fruit.

### HUNRS AND WHEAT.

### BY PETER C. DE LINDEL.

One pound of bone contains the phosphoric acid of twenty-eight possids of wheat. A crop of wheat of forty bushels per acre, and sixty pounds per bushel, weighs two thousand and four hundred pounds, and it requires about eighty-six pounds of bones to supply it with that esential material. Remember this, ve Liakota bonanza wheat farmera.

### LAX CULTURE IN OUR NORTH-WEST

There are many opportunities for new,. paying industrics in the new developing. North-west. Why not a flax manufacturing establishment? Immenso quantities of cord are used by the thousand of twine binders that are used at harvest. Why should not this cord be made at home, instend of sending abroad for it? The facilities are all here, and no where else can they raise such flax as the North-west can produce. Let the subject be agitated and let some action be taken by some of our leading farmers towards the establishment of a manufactory of articles made from flax at some convenient point in the great North-west.

The experience of the best wheat growcrs goes to show that wheat should be cut when in the "doughy state." That is when the kernel can be crushed readily between the thumb and finger. If left to over ripen, the starch and gluten are both diminished in quantity, and the woody fibre increase). Shocking the wheat is the most important part of harvest work. Good shocking will always pay.

It may have been a strong sense of personal interest that has prompted a churn manufacturer to give the following advice, but it is valuable none the less: "Many fill the churn half full; but the time it takes to churn is lessened nearly one-half when the churn is filled only oue-third full. Many dairymen make this mistake by buying too small a churn." What is saved in the extra cost of a larger churn is lost in extra time in churning, often in a single week, always in a month. Hence the folly of this expensive kind of cconomy. But it is like a great many

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# HIS SOMBRE RIVALS.

BY EDWARD P. ROE

AUTHOR OF "BARRIERS BURNED AWAY,

"OPENING A CHESTNUT BURR,"

" WITHOUT A HOME," ETC.

the discipline and coolness. As I rede here and there I could see that they were erect, eager, and that their eyes began to glow like coals from their dusty sunburnt visages. If there were occasional evidences of fear, there were more of resolution and desire and eagerness

for the fray. "The aspect of affairs on the ridge, where the enemy awaited us, did not grow encouraging. With my glass I sco reinforcements coming up rapidly during our delay. New guns wero seeking position, which was scarcely taken before there was a putf of smoke and their iron message, lleavens I what a vicious sound those shells had I something between a whiz and a shrick. Even the horses would cringo and shudder when one passed over them, and the men would duck their heads, though the missile was thirty feet in the air. I suppose there was some awfully wild firing on both sides; but I saw several of our men carried to the rear. But all this detail is an old, old story to you, major.

"Yes, an old story, but one that can never lose its fierce charm. I see it all as you describe it. Go on, and omit nothing you can remember of the scene.

Mrs. Mayburn looks as grim as one of your cannon; and Grace, my child, you won't fluch, will you?"

o, papa." "That's my brave wife's child. She often said, 'Tell me all. I wish to know just what you have passed through."

A brief glanco assured Graham that her father's spirit was then supreme, and that she looked with woman's admiration on a scene replete with the manhood woman most admires.

"I cannot describe to you the battle, as such," continued Graham. "I can only ontline faintly the picture I saw dimly through dust and smoke from my own standpoint. Being under no one's orders I could go where I pleased, and I ried to find the vital points. Of course, there was much heavy fighting that I saw nothing of, movements unknown to me or caught but imperfectly. During the preliminary conflict I remained on the right of Burnside's command near

the right of Burnshe's commune near the Sudley Road, by which our army had reached the field.

"When at last his troops began to press forward, their advance was de-cided and courageous; but the enemy held their own stubbornly. The fighting was severe and deadly, for we were now within casy musket range. At one time I trembled for Burnside's lines, and I saw one of his aids gallop furiously to the rear for help. It came almost immediately in the form of a fine body of regular under Major Sylves; and our regulars under Major Sykes; and our wavering lines were rendered firm and more aggressive than ever. At the same time it was evident that our forces were time it was evident that our forces were going into action off to the right of the Sudley Road, and that another battery had opened on the enemy. I afterward learned that they were Rickett's guns. Under this increasing and releutless pressure the enemy's lines were seen to waver. Wild cheens went up from our ranks, and such is the power of the human voice—the echo direct from the heart—that these shouts rose above the roar of the cannon, the crash of musketry, and thrilled overy nerve and fibre. Onward pressed our m n; the Rebel ines yielded, broke, and our foes retreated down the hill, but at a dogged, stubborn pace, lighting as they went. So eing the direction they were taking, I dashed into the Sudley Road, near which I had kent as the centre of which I had kept as the centre of opera-

tions. At the intersection of this read with the Warrenton Termpike was a stone house, and beland this to enemy rallied, as if determined to retreat no farther. I had scarcely observed this fact when I saw a body of men forming in the read just above ne. In a few moments they were in irotion. On they came, a resistless human torrent with a roar of hearse shouts and cries. I was carried along with them; but before we reached the stone house the enemy broke and fled, and the whole Rebel line was swept back half a mile or more.

"Thus you see that in the first severe conflict of the day, and when pitted against numbers comparatively equal, we won a decided victory."

Both the major and Hilland drew a

long breath of relief; and the former said, "I have been hasty and unjust in my censure. If that raw militia could be made to fight as all, it can in time be made to fight well. Mr. Graham, you have deeply gratified an old soldier to-night by describing scenes that carry me back to the grand era of my life. I believe I was born to be a soldier; and my old companions stand in my memory like sun-lighted mountain-tops. Forgivo such high-flown tark,—I know its not like me,—but I've had to-night some of my old battle excitement. I nover thought to feel it again. We'll hear the

thought to feel it again. We'll hear the rest of your story to-morrow. I outrank you a!!, by age at least; and I now order 'taps.'"

Graham was not sorry, for in strong reaction a sudden sense of almost mortal weakness overcame him. Even the presence of Grace, for whose sale, after all, he had an econsciously tall his story. all, he had ansconsciously told his story could not sustain him any leager, and

he sank back looking very white.
"You have over-exerted yourself." she said gently, coming to his side. "You should have stopped when I cautioned you; or rather, we should have been more thoughtful."

"Perhaps I have overrated my strength,
—it's a fault of mine," was his smiling
reply. "I shall be perfectly well after
a night's rest."

He had looked up at her as he spoke; and in that moment of weakness there was a wistful, hungry look in his eyes that smote her heart.

A shallow, silly woman, or an intensely selfish one, would have exulted. Here was a man, cool, strong, and masterful among other men,—a man who had gone to the other side of the globe to excape her power,—one who within the last few days had witnessed a battle with the quiet poise that enabled him to study it as an artist or a tactician; and yet he could not keep his eyes from betraying the truth that there was something within his heart stronger than himself.

his heart stronger than himself.

Did Graes Hilland lay this flattering unction to her soul? No. She went away inexpressibly sad. She felt that two battle scenes had been presented to her mind; and the conflict that had been waged silently, patiently, and unceasingly in a strong man's soul had to her the higher elements of heroism. It was another of those wretched problems ofrered by this imperfect world for which

there scome no remedy.

When Hilland hastened over to see his friend and add a few hearty words to those he had already spoken, he was

told that he was sleeping.

### CHAPTER XXI.

### THE LOGIC OF EVENTS.

Graham was right in his prediction that another night's rest would carry him far on the road to recovery; and he insisted, when Hilland called in the morning, that the major should remain in his accustomed chair at home, and listen to the remainder of the story." My habit of his is so active," he said "that a little change will do me good;" and so it was arranged. By leaning on Hilland's shoulder he was able to himp the short distance between the cettages; and found that Grace had made every arrangement for his comfort on the

piazza, where the major welcomed him with almost the eagerness of a child for hom an absorbing story is to be continucd.

"You can't know how you interested us all last night," Graco began. "I never knew papa to be more gratified; and as for Warren, he could not sleep for excitement. Where did you learn to tell stories ?

"I was said to be very good at fiction when a boy, especially when I got into scrapes. But you can't expect in this garish light any such effects as I may have created last evening. It requires the mysterious power of night and other conditions to secure a damour; and so conditions to secure a glamour; and so you must look for the baldest prose to-

day."
"Indeed, Graham, we scarcely know nore," what to expect from you any more," Hilland remarked. "From being a quiet cynic philosopher, content to delvo in old libraries like the typical bookworm, you become an indefatigable sportsman, horse-tamer, explorer of the remote parts of the carth, and last, and strangest, a newspaper correspondent who doesn't know that the place to see and write about battles is several miles m the rear. What will you do next?"
"My future will be redeemed from the

faintest trace of eccentricity. I shall do what about a million other Americany

what about it infinon other Americans will do eventually,—go into the army."

"Ah! now you talk sense, and I am with you. I shall be ready to go as soon as you are well enough."

"I doubt it."

"I don't."

"Grace, what do you say to all this?"
turning a troubled lock upon the wife.
"I foresee that, like up mother, I am to be the wife of a soldier," she replied with a smile, while tears stood in her eyes. "I did not marry Warren to destroy his sense of manhood."

"You see, Graham, how it is. You also perceive what a knight I must be to be worthy of the lady I leave in bower."

"Yes; I see it all too well. But I must misquote Shakespeare to you, and 'chargo you to stand on the order of your going;' and I think the rest of my story will prove that I have good reason for the charge."

"I should have been sorry," said the

major, "to have had Grace marry aman who would consult only case and safety in times like these. It will be awfully hard to have him go. But the time may hard to have him go. But the time may soon come when it would be harder for Grace to have him stay; that is, if she is like her mother. But what's the use of looking at the gloomy side? I've been in a dozen battles; and here I am to plague the world yet. But now for the story. You left off, Mr. Graham, at the rout of the first rebel line of battle."

"Andethis had not been attained," resumed Graham, "without loss to our side. Colonel Hunter, who commanded the second division, you remember, was so severely wounded by a shell that he had to leave the field early in the action. Colonel Slocum, of one of the Rhode Island regments, was mortally wounded, and his major had his leg crushed with a cannon ball which at the same time a cannot ball which at the same time killed his horse. Many others were wounded and must have had a hard time of it, poor fellows, that hot day. As for the dead that strewed the ground —their troubles were over.

"But not the troubles of those that loved them," said Grace, bitterly. Graham turned hastily away. When

Graham turned hastily away. When a moment later horesweed his narrative, she noticed that his eyes were moist and

his tones husky.

"Our heaviest loss was in the domoralization of some of the regiments
engaged. They appeared to have so
little cohesion that one feared all the
time that they might crumble away

into mere human atoms.
"The affair continually took on a "The affair continually took on a larger aspect, as more troops became engaged. We had driven the Confederates down a gentle slope, across a small stream called Young's Branch, and up a hill beyond and to the south. This position was higher and stronger than any they had yet occupied. On the crest of the hill were two houses; and

the enemy could be seen forming a line extending from one to the other. They extending from one to the other. were evidently receiving reinforcements rapidly. I could see gray columns hastoning forward and deploying; and I'vo no doubt that many of the fugitives were rallied beyond this line. Meanwhile, I was informed that Tylor's Division, left in the morning at Stone Brid; o, had crossed the Runin obedience to McDowell's orders, and were on the field at the left of our line. Such, as far as I could judge, was the position of affairs between twelveand one, although attairs between twelvand one, atthough I can give you only my impressions. It appeared to me that our men were fighting well, gradually and steadily advancing, and clesing in upon the onemy. Still, I cannot help feeling that that would hold together, the hill might have been swept, and victory made

certain.
"I had taken my position near Rickett's and Griffin's batteries on the right of our line, and decided to follow right of our line, and decided to follow thom up, not only because they were doing splendid work, but also for the reason that they would naturally be given commanding positions at vital points. By about two o'clock we had occupied the Warrenten tumpike; and we justly felt that much had been rained. The Confederate lines between the two houses on the hin had given way, and from the sounds we heard they way, and from the sounds we heard they must have been driven back also by a charge on our extreme left. Indeed, there was scarcely anything to be seen of the fee that thus far had been not

only seen but felt.

"From a height near the batteries where I stood the problem appeared somewhat clear to me. We had driven the enemy up and over a hill of considerable altitude, and across an uneven plateau, and they were undoubtedly in the woods beyond, a splendid position which commanded the entire open space over which we must advance to reach them. They were in cover; we should be in full view in all efforts to dislodge them. Their very reverses had scenred-for them a position worth half a dozen regiments; and I trembled as I thought regiments; and I trembled as I thought of our raw militia advancing under couditions that would try the courage of veterans. You remember that if Washington, in the Revolution, could get his new recruits behind a rail-fonce they

thought they were safe.
"Well, there was no help for it. The hill and the plateau must be crossed under a point-blank fire, in order to reach the enemy, and that, too, by men who had been under arms since mid-

who had been under arms since midnight, and the majority wearied by a long march under a blazing sun.

"About half past two, when the assault began, a strange and ominous quiet rested on the field. As I have said, the enemy had disappeared. The mean scarcely knew what to think of it; and in some a folse confidence. in some a falso confidence, specifily dispelled, was begotten. Rickett's battery was moved down across the valley to the top of a hill just beyond Mrs. Henry. I followed and eccupied by a Mrs. Henry. I followed and entered the house, already shattered by shot and shell, curious to know whether it was occupied, and by whom. Pitiful to relate, I found that Mrs. Henry was a widow and a helpless invalid. The poor woman was in a mortal terror; and it was my hope to return and carry her to some place of safety, but the swift and deadly tide of war gave me no chance.

"Rickett's battery was scarcely un-limbered before death was busy among his cannoncers and even his horses. The enemy had not only the cover of The enemy had not only the cover of the woods, but a second growth of pines, which fringed them and completely concealed the Rebel sharp-shooters. When a man fell nothing could be seen but a puff of smoke. These little jets and wreaths of smoke encircled us, and I think it speaks well for officers and mere that they not only did their data. men that they not only did their duty, but that Griffin's battery also came up, and that both batteries held their own against a terrific point-blank fire from the Rebel caunon, which certainly exceeded ours in numThe range was exceedingly short, a more terrific artillery duel it d be hard to imagins. At the same the more deadly little puffs of continued; and men in every ato of duty would suddenly throw up hands and fall. The batteries had siness to be so exposed, and their orts were of no real service.

can give you an idea of what red at this point only; but, from ounds I heard, there was some heavy fighting olsowhere, which I however, was too spasmodic and ected to accomplish the required

A heavy, persistent, concentrated at a switt push with the bayonet gh the low pines and woods, would saved the day. Perhaps our troops not equal to it; and yet, poor foltow yellows

ly uscless.
still believe, however, all might
gono well, had it not been for a
ble mistake. I was not very far
Captain Griffin, and was watching
of offective superintendence of his
when suddenly I noticed a regiin full view on our right advancing
rds us. Griffin caught sight of it of same moment, and seemed ed. Were they Confederates or and? was the question to be deinstantly. They might be his own instantly. They might be his own ort. Doubtful and yet exceedingly hensive, he ordered his guns to be d with canister and trained upon lubious force that had come into like an apparition; but he still sted, restrained, doubtless, by the if thought of aunihilating a Union ent.

Captain," said Major Barry, chief illery, 'they are your battery hey are Confederates.' Griffin re-

intensely excited. 'As certain as orld they are Confederates.'
'No,' was the answer, "I know they our battery support.'
and ridden up within car-shot and

d my glass upon them. 'Don't cried Griffin, and he spurred forosatisfy himself.

the same moment the regiment, ithin short range, by a sudden taneous act, levelled their muskets I saw we were doomed, and yet me instinct tightened my rein Idug my spurs into my horse. He I instantly. I saw a line of fire, ten poor Mayburn fell upon me, ed, and was dead. The body of a roke my fall in such a way that I ot hurt. Indeed, at the moment I sielly conscious of intense anger isgust. If Griffin had followed stinct and destroyed that regiment, could have done by one discharge, esult of the whole battle might been different. As it was, both his lickett's batteries were practically flated.

major muttered an imprecation. the pinned to the ground by the tof my horse, but not so closely at I could look around. The carried been frightful. But few were ir feet, and they in rapid motion rear. The horses left alive rushwn the hill with the caissons,

ing dismay, confusion and dis-through the ascending line of Our supporting regiment in the hat had been lying on their arms, to their feet and stood like men zed with horror; meanwhile the regiment, reinforced, was advanc-pidly on the disabled gurs,—their lers lay beneath and around them, g as they came. Our support lem one ineffectual volley, then and fled."

n the major relieved his mind in

ractoristic way. t you, Alford?" cr ed Gracodeanward with claspol hands, while it came and buried her face upon

paldor. "Aro you keeping your to L live?" she whispered. I I not here safe and sound?" he

cheorily.

my horse, and was nothing to them but a dead Yankee. I was only somewhat trodden upon as I told you, when the Confederates tried to turn the guns

against our forces.
"I fear I am doing a wrong to the ladies by going into these sanguinary details."

"No," said the major, emphatically;
"Mrs. Mayburn would have been a
general lad she been a man; and Grace
has heard about battles all her life. It's a great deal better to understand from the start what this war means."
"I especially wished Hilland to hear the details of this battle as far as I saw

them, for I think they contain lessons that may be of great service to him. That he would engage in the war was a foregone conclusion from the first; and with his means and ability he may take a very important part in it. But of this

"As I told you, I made the rather close acquaintance of your kin, Grace, and can testify that the 'fa' of their feet' was not 'fairy-like.' Before they could accomplish their purpose of turning the guns on our lines, I heard the rushing tramp of a multitude, with defiant shouts and yells. Rebels fell around me. The living left the guns, sought to form a line, but suddenly gave way in dire confusion, and fled to the cover from which they came. A moment later a body of our men surged like an advancing wave over the spot they had occupied. "As I told you, I made the rather occupied.

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"To incluce people

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"THE REMEDY to favorably noticed in all the

"THE REMEDT to favorably noticed in all the papers.
Italigous and socular, is
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Eleven years our daughter suffered on a bed of misery.

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The Only Weekly Agricultural Paper in Canada.

Is published overy Wednesday morning at the Welland Printing and Publishing House, Wel-land, John Forguson, M.P., sole proprietor.

WEDNESDAY, JULY 2, 1884.

### ONE WORD.

We are of course weekly receiving letters from our subscribers upon various subjects, but through the whole lot there runs the one idea with regard to the CAN-ADIAN FARMER, and that idea is that our paper is rapidly improving. We have no hesitation in eaying that we publish the chapest and best agricultural paper printed in the Dominion of Canada, and our watchword is still "onward." We: give more first-class reading upon agricultural subjects weekly, than any of our contemporaries in the Domlnion do monthly. Just examine the CANADIAN FARMER. Look through its numerous departments and judge for yourselves the value of our paper.

### CANADA AS A BUTTER COUNTRY.

Within the past few years the cheese industry in Canada has assumed enormous proportions. It is not very long ago that the country imported that article, but in the year past the Dominion has exported over sixty million pounds of cheese, and imported none. It is very satisfactory, too, to note that our cheese is much sought after, wherever it is sent. The English markets receive it very gladly, and the American cheese makers and cheese dealers pronounce their own product as slightly inferior to ours. It is only a very short time since our cercals and our timber constituted our chief and only exports, but last year we exported more money's worth in cheese than in any other single article by a couple of hundred thousand dollars. It seems scarcely credible that in a single year, 1883, there should have been manufactured in Canada cheese enough to supply a large demand for home consumption, and at the same time leave over six million dollars worth to be sent to other lands. lessons for us, and they should not go un- have been in close straits, and money with Practical man and was roised on a farm heeded. Our land has been too much them has been very close, but an excel- and knows the wants of the agricultural plied with an energy hardly expected from wheated, whilst at the same time we will lent harvest will put them on their feet community in regard to the training of the driver; a poor horse with weary

with some other wheat fields now opening up. In consequence of these facts dairying must very soon take a very great prominence among the occupations of the country. Cheese-making will be more extensively they now carried on, and its sister industry butter-making must also be cultivated. Last year, while we experted six million doltars worth of cheese, we exported only a million and a half worth of butter. Why is it that our butter is not called for as greedily as our cheese? Thomswer is not far to seek. Whilst we make a superior article in the one, we make in general a very poor article in the other, and it is this difference which makes such a difference in the demand, as well as in the price. This is the point. Canada is a good dairying country , we have lots of energy and will, but the systems of butter-making pursued are many of them erroneous, and, as a consequence, our batter is, when shipped to other countries, often a material libel on the gret to say that oven in our Normal fame of the Dominion. Our readers have many of them been in the cellar of a village grocery store and taken a look at the butter table. Color, varying from the deep, rich golden yellow to the whiteness of violet face powder, and tastes from nutty sweetness to rank offensiveness, are al' dumped on to that table in promiscuous confusion. Here it all remains, the good to spoil and the bad to get worse, until the merchant has more than he can handle. and then alt is "mashed" and "punched" together into tubs and counted ready for sale and shipment. When cut through and brought upon the table, whether it be in trans-Atlantic or American cities, it matters not, the surface of that butter is as streaky and patchy as the varigated sky of an autumn evening, and its taste as muscular as that of the loud-smelling Limburger of the New York provision market. The moment it is discovered that it is Canadian butter, then at that moment our reputation for butter-making suffers in consequence.

There is no substantial reason why we should not make as good butter as we do cheese, except that whilst the one article is manufactured only by those who are master of their business, and have the best appliances and conveniences, the other is largely in the hands of those who are not posted in scientific butter-making, and who, if they be so posted, are lacking in the accessaries for good butter producing.

There can be no doubt, of course, that the private dairies will produce better home manufactured butter, but we look upon public creameries as the salvation of the country in this respect. With numerous good creameries and thoroughly skilled and careful makers, our butter exports would far exceed our cheese exports, instead of being only one-fourth as large. It is the duty of the government to see that these creameries are established, and the Ontario Government will doubtless in the early future fulfill their promises to establish them in quite large numbers.

### MANITOBA CROPS.

Reports of the most encouraging kind reach us from M vitoba. Prospects are teach in a rural section, to pass a short good there for abundant crops, and the term at our Agricultural College and to farmers are joyous at the bright prospects graduate in certain subjects from that for rich harvests. The frosts have there done little damage, and without something | text book on agriculture if the teachers very unusual occurs the fields are safe. know nothing of the subject. The Hon., Yet such is the fact, and that fact has its The agriculturists of our prairie province the Minister of Elucation, is a good

again. We congratulate our readers in Manitoba and the North-west upon their prospects.

### OUR NORMAL SCHOOLS.

Some weeks ag) we referred to the necessity of teachers being examined in the subject of agriculture, and mentioned the fact it would be an easy matter to have each tencher to pass a satisfactory examination in the subject at the Normal School before becoming a fully fledged teacher. This is where a reform in our public school system must begin. If we want our public schools to have less of theory and more of the practical, we must have the system used in our Normal Schools thoroughly changed. Take the course through which a pupil is now compelled to pass before he or she can become a teacher: In the public schools-theory; in the high schools and Collegeate Institutes-theory; and we re-Schools the caudidate has to prepare another batch of theory. We know whereof we speak. Normal School students spend six hours over books to every one they spend in practical work. Only a couple of years ago we were visiting in a home where a couple of Toronto Normal School students boarded. Did we find them studying? Did they delve into anything practical? The nearest approach to anything of the kind, we saw was two young men, who had about as much car for music as a mule has for manners, spending their time in learning the definitions of music; in other words learning music by rule just as they had learned vulgar fractions in the old : choolihouses at home. What nonsense! Is this the work our Normal Schools are doing ? We answer as at present conducted. they do little more. We are not unsunported in our assertion, and if the authortties of the two Normal Schools desire it we can from their work select some of the silliest and most useless labor ever done by a human being. The Normal Schools are ostensibly for the purpose of giving us practical teachers, but they fall sadly short of performing the duties for which they exist. Take the Normal Schools of Europe -Germany for instance. In these something practical is done. Every Normal School, and they are very numerous, has a farm attached to it, and the prospective teachers are taught agriculture practically as well as theoetically in the classes, and no teacher is allowed a diploma until he passes a satisfactory examination in this subject. If a little of this kind of thing were introduced into our Normal Schoolsystem is would be a good deal more productive of good results, and we should have better, more industrious, and more practical teachers. There is, we suppose, no hope of getting our Normal Schools connected with farms, but we trust there is a hope of having our teachers compelled to study agriculture. Let the education department compel every teacher to pass a satisfactory examination in the subject. In fact, we should be strongly in favor of compelling every teacher, who desired to institution. There is no use authorizing a

the young. To him we look for the careful consideration of these wants and a thorough reform in our educational system.

During the past year Austrailia had 25,000,000 bushels of exportable wheat; India 50,000,000; and the South American Argentine Republic 10,000,000. These are wheat fields indeed.

### PAIRS.

We shall be obliged if secretaries of township and county agricultural sociolies will send us the dates of their respective fall fairs. We desire this favor that we may publish them in our columns. Address all communications to THE FARMER, Welland, Ontario.

### AGENTS.

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

Your assistance is solicited. For terms, etc., write to the Canadian Farmer, Welland, Ont., Drawer A.

### CORRESPONDENCE.

This page will be devoted to the exclusive use of correspondents. All of our readers are invited to write upon subjects of interest to agriculturists

### A PLEAFOR THE HORSES.

### LETTER NUMBER ONE.

ED. CANADIAN FARMER.-I agree altcgether with numbers of your correspondents, who urgo the needed improvement in the stock of Canada, and I hope the plan of forming joint stock associations will have the effect of greatly increasing the horse stock througho; all parts of the country. I am of the opinion, however, that the English coach horse should be paid more attention than some of the heavier classes, which are now being imported. Quality with average size is what the farmers want as general purpose animals. But, sir, I do not write to deal lengthily with improvement in breeds, but rather to call attention to the care of horses in the hot weather of this and coming months. I regret to say that many farmers of my acquaintance are wilfully careless, if not cruel, to their best friends, the horses. I do not know how others feel, but I must say 1 would not feel myself safe if at the mercy of a man who will abuse his dumb animals. A man's treatment of his horses is a pretty good index of his dealings with his fellow men, and if that treatment is inconsiderate and unmerciful, it is just as well for other men to shun his companionship.

There are three classes of horse abusers. First, the man who drives his horse beyond a considerate speed, and yet this animal attends him well; second, the man who drives rapidly, or works too hard, and gives poor attendance; and third, a man who is carcless only on a matter of feeding and care. Of the first class the memberbership is exceedingly large. In cool weather it does not damage a horse to drive him at a good rate of speed, but in the hot days, beneath the scorehing sun, it is cruelty of the worst kind. We have all seen the spectacle: A lazv-looking, sleepy-headed, sanctimonious looking fellow, reclining in an easy cushioned vehicle; a long whip plied with an energy hardly expected from limbs, driven at the rate of ten or twelve miles an hour, drenched with sweat, and perhaps rubbed by defective pulling harness, seeming almost ready to drop from exhaustion, yet urged on by tongue and blow of the human brute behind. Nothing sir, makes my blood boil quicker than an occurrence of that kind, and I have many a time suppressel a strong desire to put the whip in another and more deserved quarter.

Frequently I meet men who are ministers of the gospel beating their horses in such a manner. Invariably I conclude that they are heartless hypocrites, for godlines would never permit any such abuse of such a noble animal. A man who can pray elegantly for three-fourths of an hour, and then drive four mules in the balance of an hour, and that through the scorebing meridian of a summer day, is telling his character more plainly in the fifteen minutes than in the forty-five.

But driving is not all. Farm working also offers very many opportunities of horse abuse. Too often the faithful farm animals are overworked. At it in the early morning until the noon mark is crossed; then a half hour's rest in a hot stuble; and then at it again until the light of day has gone. Here is a great mistake. It will do no harm to work horses, if well-fed reasonably hard for reasonably long hours; but by all means give them a good rest at noon, and frequent breathing spells beneath some shade tree during the day. It is best to begin early in the morning, as early as the dew will permit. In cutting hay, of course you can begin very early, and if you begin thus, you can afford to rest a long while at noon. A team which begins to cut grass at five o'clock in the morning, ought to be allowed to rest from ten o'clock to three, in a cool place, after which latter hour they will be able to go on without injury and with some kind of good spirit. Nothing will be lost by such an arrangement of laber, but much will be gained.

You will hear from me again next week .-- MARTIN J.B ---- , Ancaster, Ont.

### BREAKING COLTS.

ED. CANADIAN FARMER. - I have a few words to say about breaking colts. I like to begin to break a colt when it is about two weeks old. Put a halter on it and teach it to stand tied in the stable or whereever you wish to tie it By commencing when the colt is young you can easily put something on it that it won't break, By being careful at this time the colt rarely ever acquires the habit of breaking loose afterwards. Then if you wish the colt to go along when working the the team, tie it to the side of its mother. Be careful at first, and in less than half a day you have it learned to lead. When the colt is old enough to work, put the harness on carefully, also harness a good, quiet work borse, get on the work horse and ride him around a while, leading the colt alongside until it gets used to the other horse and harness; then hitch the work horse to the wagon or sled, as the case may be, hitch the colt in carefully, get on the work horse, take the colt's hitching or coupling strap in your right hand, fasten a line or rope to the colt's bridle bit, let some one take hold of the line a.d walk alongside the colt; then you are prepared for any emergency. After drilling the c lt this way for some time, put on the check lines, and after working a while thus, unlitch and put the colt on the near side. If your Usually two applications, one earl, in the have his dog, very often the same nature can never be fully amended by after care colt has a good disposition you will soon spring, and the other just before the fruit as his master, with whom he is on the best, however socialously bestowed.

have it ready to work almost any place. ripens, are sufficient to keep down the Some think it not necessary to go to so much treuble, but I like to get a colt started, if it does take a little more time and trouble. I helped a neighbor to break a colt this spring on this plan. He said it was the first colt he ever had broke to please him.

I prefer to break a colt to the lead or single line, when plowing, in the spring of the year: then there are no flies to bother. I prefer a left-kand plow. First, put the check lines on until the cont gets used to following the furrow and turning at the corners of the land; then put the lead line on. Have some one hold the plow a few rounds, and walk along-side the colt. When you wish him to turn to the left, call out "haw," pulling the line; if to the right, call out "gee," j. King the line. In a short time you can manage the colt and plow yourself The reason for walking alongside the co't is this: When a colt once gets started to turn it is ant to go too far; then you can eatch it by the bridle. W. M. MUSTARD.

### CULTIVATION OF CURRANTS.

ED. CANADIAN FARMER,- I for one am very much pleased with the fact that Mr. Linus Wolverton, who is, I understand, one of the most intelligent fruit growers of this province, is contributing to your columns. In his paper published in your last week's issue, he very ably discusses the question of currents and their cultivation, and I am suro his letter will be read with great interest. I have had some experience with currents, and hence your readers will pardon me for inflicting upon them another notice of the current c' stion.

The current has always been a universal favorite, not so much, perhaps, because of the real nature of the fruit as because of the extreme hardiness of the bush, which hitherto has withstood a good deal of neglect, with little or no attention. After once planting them in some remote corner of the garden, or under the fence, they are left severely alone. But with the current, as with other things, as soon as they become scarce, the demand for them will increase, and better prices rule. My plan of cultivation-which I do not claim as the best, but which has always succeeded with me-is simply this: As soon as the leaves are off the bushes in the fall, I go through them with a sharp knife and trim out the old branches, and any of the new that show signs of borer, and cut back all new shoots one-third. I then rake up all the wood that has been cut out, and burn it to make eure of destroying all insects that might cling thereto. This done, I work in deep -usually with the spade-three or four shovelfuls of good, well-rotted barn manure around each bush, to the space of about three feet; the ground between the rows is now either plowed or spaded, and the whole given a liberal top dressing of light manure, and the work is done for the winter.

As soon as the first worms appear in the spring-which is early-I take a heaping tablespoonful of powdered white helieborg and thoroughly wet it with boiling water -a quart or so. I now turn this to a pail of clean cold water, stirring constantly all the while, till every particle of the powder is well mixed. It is ready now for application to the bushes, which is done with a large watering pot, taking great care to thoroughly sprinkle every bush; repeat this as often as the worras reap, ear.

worms. Keep the ground around them mellow and free from weeds, and if at any time through the summer a branch is seen to wilt, it is immediately cut away and burned, as such is the "eign of the borer."

Following this method of cultivation, I have never lost a bush or had a poor crop of fruit. And I bespeak the same success to any who will take the same trouble for the sake of this delicious fruit. It will

### FARMER'S MISTAKES.

ED. CANADIAN FARMER -- The most of and I think I might be permitted to my a fow words about what we should not do. In the first place we Catario farmers should not grab for too much land. "A small farm well tilled," the old addage says, and there never was a truer one. Our Province, if put under thorough cultivation, would produce just four times as much value as it does at present. Hence I sty, don't let us work alone for big farms, but let us work well what we have. Too acres well tilled will produce more than 100 acres neglected. Let us be wise and have "small farms well tilled."

Another thing we should not do, and that is to depend on a single crop for our returns. I agree with you Mr. Editor, about mixed farming, and I am glad you are advocating more fruit, more stock, aud less wheat. A third thing not to do: to keep poor stock. Guud stock is cheaper in the end. The Durham's I now have give me more return and greater satisfaction than twice the number of scrub cattle, theretore, I say, keep more good cattle.

To allow weeds to get the upper hand of us, is another thing that ought not to be done, they are tyrannical masters. You can't keen ice and red hot iron together. Neither can you grow weeds and grain together. One must disappear. Let it be the weeds. Again don't depend on hired help. If you are not able to engage in the work yourselves, at least have it done under your own directions.

Numbers of farmers make mistakes about their homes, too. Don't let things be unattractive there, or the boys will get tired of the ferm, and your wife and daughters will pine for a life anywhere but on a farm.

But, Mr. Editor, I might go on don'ting until I should fill up a lot of your space, so I will just conclude by telling you : "Don't forget to change the date on my paper, sence I herewith send you a dollar to pay up till next year."

R. H. B. I am, Sir, Simcoe, Ont.

### ${\it POULTRY}.$

For the Canadian Farmer HIGH CLASS POULTRY.

The mind and heart of mankind seems to be so formed that it drags out a miserable existence without something to love and cherish, and the mortal is depraved, indeed, that has not some tender sympathetic spot left in his nature. Even the miserable unhappy being, who lives a life of celibacy in want of human companionship, has his dog or cat, or perhaps both upon which to bestow his sympathy. The ragged unkempt urchin, whose hand seems to be like that of the descendants of Ishmael, against every man's hand, and every

of terms. The maiden lady of uncertain age has in most cases a cat or a bird to love and cheri-b. Now it is this love of animated nature that induces us to improve our stock of all kinds; visit the breeder of Short Horne, go with him through his stables and note the beam of pleasure as he points out his favorites, and dwells on their special merits, or rather their points of special merit. This man takes a pleasure in his stock unknown to the breeder of scrub cattle; the same with the horseman. He has a good horse, because it gives him pleasure to own and drive such a horse. He might get through your contributors tell what we chould do, bis work with an ungainly, slab-sided creature that would not be worth half the money his elegant steed represents, but the pleasure and pride he takes in a good horse enables him to make money out of horses, for whoever alw a man make alon yout of horses, who kept only cheap raw-boned nage. And on the contrary, very few men who keep good horses lose money on them.

> Now this is the case with fowls to as great an extent as horses and cattle. Show me a man or a women either (for there are many of the latter as well as the former engaged in poultry breeding) who takes pleasure in caring for fowis, who prefers feeding the birds themselves to allowing some one else to do it, and who take pleasure in their spare moments in watching the movements of their fowls. I will show you a successful poulterer, or if engaged in breel, a fancy or thoroughbred stock, they are the ones that monopolize the red tickets at the fairs, and if they have surplus stock, can generally find a ready sale for it at fair prices. Of course we assume that they are reasonably intelligent, and keep up to the times by reading and other means. But whoever saw a successful breeder of any kind of stock who commenced with the idea that because his neighbor made money at it, that it was full of money waiting to roll in his pocket as well. We have seen many start poultry breeding with this idea and no other qualification, and we have seen just that many fail. So now are you really a lover of really fine fowls, not for their pecuniary value, but would you like to have a few about you for the pleasure of it, provided they inst paid expenses and no more. If your wer is no, then wo adviso you to read me further in this colump, but turn over to the serial story and read it. If you mentally answer yes, then we say follow us carefully through this series of papers, and we will endeavor to assist you to the best of our ability. Of course you will hear in mind we do not presume to be infallible; we only give you the benefit (if such it is) of our study and experience in breeding thoroughbred poultry. We will next week take .p the prerequisites, and how to begin in the mean-Au Revoir,

Breeder.

New York city consumes over \$20,00,-000 worth of eggs, and 100,000 tons of poultry annually. Over \$200,000,000 worth of eggs are consumed annually in the United States and more is wanted.

Give the young chicks a fair share of your time and you will be well repaid. Keep them pushing ahead from the first if you wish them to become first-class birds. man's hand against his is almost sure to Stagnation at any period of their growth



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### THE GRANGE.

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

The work of the Grange should be a can tinuous, net a spasmodic one. It should go through seed time and harvest, hear and cold, summer and what r Politicians always conduct their campaiges in the cease as soon as the season opens,

### OFFICIAL CRECELAR

DOMINION GRANGE, Secretary's Office, MANILLA, JUNE 30.b, 1884

The Executive Committee of the Dominion Grange met at St. Toomas on June the 11th inst. Considerable routine busi ness was transacted. Latter- are continu ously being received asking for information and instructions, with a view of organizing Granges, therefore a number of new Deputies were appointed for that purpose If Division Granges would take the matter of Deputyship into consideration at then next meeting, and recommend one or more competent persons to act in that capacity to the Master of Dominion Grange, he will send them the proper credential pertaining to that office.

Since the last meeting of Dominien Grango there has been fourteen new Granges organized, and with a little activity on the part of the Deputies a large number of new Granges could be formed during the present year.

It is the intention of the Executive Committee to send a Lecturer to Manitoba and the North-West Territories during the present year, if sufficient encouragement is met with.

C.pi s f he proceedings of the last D minion Grange and efficial lists have been sent to all Sabordinate and Division Granges who have sent in their list of oflicers for the present year.

The Frecutive request that all the members of Sabordinate and Division Granges will give the proceedings of the last Dominion Garge a careful perusal, as all the suggestions for the smendment of the Constitution published therein should be discussed, and your delegates instructed in the matter, and special attention is called t the 4th clause in the report on Officers' Reports, page 34, as the various reports and suggestions bearing upon the Constitution (introduced at last meeting of Dominion Grange) is not now law but simply stand as notices of motion, to be acted upon attnext meeting of Dominion Grange.

Members of the Order can be supplied with solid gold emblem pins for \$1.10 each by applying to the Secretary, the same being adopted at last meeting of Dominion Grango as the emblem pin of

Arrangements are also being made to supp y Division and Subordinate Granges with the badge adopted at last meeting of Dominion Grange. Those requiring them will please communicate with the Secretary. The Executive request that the names of all Masters of Subordinate G anges be sent, under seal, to the Scoretary, when matters of material interest will be forwarded them.

The report on the Good of the Order recommended that the Executive Committee tel ct a number of sulfiects for discussion in the Subordinate Granges, therefore the following salj ets have been selected:

1st. Is an organization amongst the far mers in cessary ?

200. Has any organization already established been of benefit to the farmers? 3a1. Should the science of agriculture e taught in our public schools?

4th. Is it necessary that farmers' sous be ducated equally with other classes I

5-h. What is Grange education, and how attamable !

summer and fall, and yet some Granges | 6 h. Would Farmers' sons be recouped seem to have the idea that all work must in time and money for a term of years spent at an agricultural college?

7.h. How much does the planting of tires and flowers enhance the value of our homes?

8.h. Would money invested in a library of standard works pay good interest on the mvestment I

9th. Is it in the interests of agriculture that home racing and theatrical performauces he allowed at our annual Fall Exhibittons ?

By order of the Executive Committee. Years Fraternally,

HY. GLENT INNING, Secretary.

CO-OPERATION ASSUNG FARMERS.

The small farmer is strongly tempted to buy machinery quite disproportioned to his number of acres. The profit of machinery consists in its use, ad however great the saving labor in the use of the machine, it saves nothing, but is an expense when idle. The small farmer, therefore, cannot afford to buy expensive machines, because he cannot use them enough to pay the loss in value and interest. But if theirs.

small farmers will associate themselves together, they may co-operate, and purhase a full set of all the expensive machines, each one contributing according to his proportion of land. These machines can do the work for a certain number of acres-say 600 to 800 acres. For example, the self-binder, one of the most expensive machines used upon the farm; this can cut 200 to 300 neres of grain in a season, and would be able to cut all in due season, beginning with the earliest sown and ending with the latest. This is as much grain as would generally be raised on that amount of land.

These farins should, of course, join each other in as compact a body as practicable, so that the machines would be as convenicut for use as if they were all one farm. This association might consist of the owners of fear farms, or even eight farms. The fifty-acre farmer could enter the association upon equal or proportionate terms. There would seem to be no liftle culty in making it cauttable to all, and eaca one would have a't the advantages of machinery of the most favored large farmers. The excuse of selling small farms often is that it costs more to work them, because they must be worked without the advantages of the most approved machinery. This co-operation would cure all this.

Another important advantage which would result is, the important social events which would result from such an association of farmers. Farmers are not in the habit of associating together as intimately as would be well for them, If farmers associated more intimately, they would soon find out the political power placed in their hands, but which they do not know how to use for their own protection. Instead of representing themselves in our legislative bodies, and thus protecting their own interests, they commission the lawyers to represent them, and many of these sharp represes tatives look after their own interests instead. The lawyer elected by the farmers is very often found under the influence of large corporations, although these corporations are working quite against the interests of the farmer. The legal class make all the laws, and these must be expected to be in their own interests; they execute the laws and decide all questions as to their application. They must be more than human not to first take care of themselves.

First, it is quite absurd that lawyers should be chosen to represent the agricul tural interest, because they do not understand its wants, and they do not sympathize with it. Their sympathies are much more active for corporations, that oppress the farmers by laying heavy toll upon al their productions. Second, farmers should represent their own class, because they alone understand their needs. And if farmers were in the habit of co-operating with each other in their ordinary operations, they would soon see more clearly the political situation and see that their rights were respected. We should be glad to see farmers more closely studying their own interests - Live Stock Journal.

Faith in a sublime truth, loyalty to a great purpose will make the faces of men shine like the sun, and their raiment white as the light. These true souls are the normal examples of our humanity; and we are but shapes and forms, and not men if we do not aspire to a life like HOT WEATHER NOTES

Fight weeds.

quently.

Clear out mustarl.

Take long rests at noon.

Keep the garden clean.

Look after the manure piles.

Send us some new subscribers.

Don't drink too much ice water.

Cultivate the fallows thoroughly.

Look out for the destructive insects. Raise a second crop wherever possible.

Keep a record of the cost of your crops.

Harvest the wheat in the doughy state. Water newly planted trees well and fre-

Take a holiday with your wife and family.

Turn a clover sod under; it makes kood manure.

Read the Canadian Farmer in your arare momenta.

Top dress newly mown meadows with

fine, well rotted manure. Keep a wet cloth in the crown of your

hat ; it may prevent sunstroke.

Cut your grass when it contains the most nutriment—neither too early or too

Make it interesting for the boys by giving them explanations as to why and wherefore.

THE

# FARMER

FROM NOW TILL THE

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FOR 50 CTS.

Send in your friend's half dollars and secure them the "Farmer" until January, 1885.

### IORTICULTURE.

RRANT CULTURE FOR PROFIT.

(Continued from last week.) HNUS WOLVERTON, M.A., GRIMSBY.

set Enemies. - In our last article we ed currant growers to be most vigiat this season of the year against the ported Gooseberry Saw-fly," which stroduced from Europe about twenty s sgo, and has now spread over Canada the United States until it has become rost evemy of the current grower.

ere is another worm very active upon surrant bushes in the month of June, Currant Geonider or measuring worm pia Ribeari) the larve of a pale yelmoth with dusky spots. It may easiidentified by its peculiar mode of lling as if measuring distances. Its is about an inch long and its feet are d at each end. Its color is whitish black spots, and a long yellow stripe is back. It does not feed in groups the Saw fly but scattered over the es. Jarring will cause these worms ing down by the silken threads which spin, when they may be easily gatherd killed. Or, if very numerous helleshould be sprinkled over the foliage scribed in our last article.

e other of the insect enemies of the ut should be noticed here, viz: The ıkd Currant Borer (Aegeria Tipuli For-Just about this season of the year ty moth somewhat resembling a wasp be noticed, having a bluish black body streral gold stripes and transparent This is the parent of the current ; a grub which bores up and down gh the centre of the stem. Its presmay be detected by the unthrifty look e foliage and small size of the fruit. thus affected should be cut off, and slup at once with their subabitants. grous growth of the bushes will tend sen the ravages of the insects, and to ote this it is wise to cut out each all but five or six stems, and to keep ewell out hack.

arding Currants - - Few, except proonal horticulturists and market garn, sufficiently value the advantages d by the use of tidy packages in the of fruit. In our city and town marmay still be seen currents and other I fruits exposed for sale in weatheren boxes, tin pails, or rough, dirty es. No wonder people who do this their small, badly handled currents of r varieties should declare them a profitfenit.

fter trying many packages for currents find nothing so satisfactory as the coma square strawberry basket twenty-four which are packed for shipment in a ket crate of the same material, with a edle and cover. These are all sold with fruit and never returned, fortunately king it necessary for the grower always use new and clean packages. At Grimsthis basket crate has almost wholly disced the Wooden crate, which had to be urned and which so soon became bby and dilapidated, Boonomy as il as convenience has forced the change. shipping purposes, for the weight of eold wooden crate added to the express uges a sum nearly equalling the price the basket crate.

We are of the opinion that any farmer i , the attention we have described to rel ction and cultivation of his currents I reap great satisfaction in an abundhe choose to grow it for market, he will receive a sure reward of his labor.

STRAWBERRY CULTURE.

Mr. Page wrote some very sensible things in the CANADIAN FARMER of June 11th, on this subject. The hint about the selection of soil is important. It has been proved by the sad experience of many, that a dry soil will result in failure. And the cultivation and manuring needs emphasizing. Our gardener said the other day, " the old way of growing berries is played out," and he was about right, as any one seeing the magificent results he has brought about by high culture would acknowledge. He gathered this season in one picking four hundred quarts of magnificant berries from half an acre of ground, and that repeated every other day several times. Nor is that all the story, for on account of their fine size they sold in the market at from two to five cents in advance of ordinary berries, thus amply rewarding all expenditure. Evidently the old process is not out of date yet, "Whatever is worth doing at all is worth doing well." and we might add "very well" in strawberry culture. Every additional stroke of the hoe, and every round with the cultivator, more than seems absolutely necessary, before or after picking season is additional money in the pocket.

A most important point in Mr. Page's letter was perhaps on the selection of purice ties. With some varieties no amount of culture will pay. We had half an acre of Harvey's Seedling once which was the admiration of every visitor-such beautiful plants-and we hoped great things. But they had one very serious fault-they bore no fruit! Perhaps it was the soil; perhaps because there were not enough hermaphrodites planted near, but any way, they never paid for the planting.

The Wilson never disappoints anyone who gets it unmixed with other kinds. and it still stands out beyond comparison for main crop with any other variety, unless perhaps it may be the Crescent Seedling.

In the last report of the Fruit Grower's Association of Outario there is an account of an interesting discussion on the subject of varieties of strawberries. The selection of kinds for profit was narrowed down still closer than Mr. Page has doue. The sense of the meeting was in favor of only two kinds for profit, vir the Wilson and Crescent seedling.

The James Vick has come out with wonderful commendations, as surpassing the Wilson in productiveness. We have it just now fruiting, and so far it appears appears inferior to the Wilson in size and flavor, and not more productive.

But surely the quantity of feuit is not always to be our criterion for judging of the merits of strawberries, or of any other fruit. As our cities advance in wealth and luxury, there will le an incressed demand for excellence in flavor and beauty of appearance at any price. The old Triomphe de Garde may yet come to the front as the choicest and most popular table berry, and be grown with great profit on rich, heavy soil. The Sharpless brings a high price on accorat of its use and beauty of appearance. With us it is yielding very well this season and we would not be without it.

Picking.—We fear growers as a rule will never leans to gather strawberries with care Canadiane are generally in too much of ce of heautiful fruit for his table, and if a hurry to do at with care. In farming and fruit growing the same rule prevails, viz: a porous sub-oil. Sandy land is preferable possible," and it proves in the end a most and in reasonable abundance. unfortunate rale.

get careful pickers! "On yes," says one, "I orchard and of the most prompt and can see it is best to pick them as you wish, thorough cultivation afterward, we may but then I can't make enough doing it say that an acre of land adapted to and that way," and so they grab the beautiful thoroughly prepared for growing peaches, berries by handfuls and toss them into the will produce a net means equal to three or baskets. Sadly bruised and stemless they four acres devoted to farm crops, and on come into the packing house, where to sandy land the peach orchard will show a make them at all presentable they are top-still larger balance in its favor. ped to deceive the buyer.

them off with the thumb nail. They should be handled by these stems only and carefully laid in the basket so as not to need turning out and handling over again to the duling of their sniny gloss. B. rries so gathered and put in good hands for sale will bring two or three cents in advance of those picked in a careless way.

The best package is the one recommend. ed for currants; no other is so acceptable in the market. We believe the time will come when it will pay to stencil each package with the kind of berry, and when such delicious dessert berries as the Triomphe will from name, command remunerative prices in our best markets.

### THE PEACH.

The peach is one of the most delicious fruits grown in a temperate climate, an l whenever it succeeds its cultivation yields a larger net return than perhaps any other fruit-every succeeding year affords evidence that it may be successfully grown in many localities where heretofore it was supposed such an undertaking would result in failure.

Being a native of a warmer climate than ours, it is often injured by the intense cold of winter. It is therefore advisable to fortify the tree in every possible way against the rigors of our northern climate. This precaution is the first step toward success, and in many localities is imperative.

Several factors will enter into the ac count in securing this result. First-the site for the orchard should be elevated above the lands adjacent, and the surface should incline considerably in order to secure perfect drainage for excess of water and cold air. The cold air being heavier than warm air will run off, if the surface is descending, and will occupy the lowest level the same as water; for this reason, among others, peaches will not succeed on low ground, nor even on high land if the surface is a dead level for some distance amund.

For the same reasons, all depressions having no outlet should be avoided. Neither will a peach orchard succeed on heavy clay soil when the subsoil retains an excess of water, unless very thoroughly underdrained and the subsoil broken up. If it becomes again apparently compact, the roots will be enabled to penetrate such soil far more readiy than they could before it was broken up.

It is known that the roots of the peach tree have less power to penetrate the hard earth than those of many other fruit trees, and require a lonce, friable soil and subsoil. Such a condition of the soil allows the water to pass off readily and admits light and heat, both important agents in vegetable growth.

The best woil for the peach is a deep, strong, gravelly loam or a heavy loam with | the best price.

get re much as possible off as much to heavy clays, and with the use of fertilground as possible, with as little work as izers will produce fruit of excellent quality

As an incentive to a thorough prepara-How hard it is for a careful grower to tion of the earth before planting out the

Farmers too often seem satisfied with Strawberries should be picked with short | shallow cultivation, and their crops usually stems about half an inch long, nipping | c -rrespond with the labor and skill used in conducting their farm operations. Now, while the ordinary returns from farming may not warrant the expense of fertilizing, underdraining, and subsoiling, to the extent I have indicated, the case is far different in laying a sure foundation for a profitable peach orchard.

The usual depth of plowing is six inches the subsoil below that distance is of little benefit to growing crops unless the roots can penetrate through it. If the bed of mellow earth can be made one foot deep instead of six inches, the productive espacity of the orchard will be increased in the same ratio.

The benefits secured by a thorough breaking up of the soil to a proper depth may be stated as follows: Air, light and heat, indispensible agents in growing fruit and all farm cropy ... more freely admitted to the whole depth of soil to work out these wonderful changes which produce such abandant and beautiful crops of fruit and giain. The air brings with it elements of fertility, heat from the sun's rays and is laden with moisture. It yields up a portion of its heat as it penetrates the cool earth; this cooling process lessens its capacity to hold moisture and a portion of this is also given up to the earth. This will explain why a deep, mellow soil will carry a crop of fruit through a severe drought so much better than a shallow one. A deep, mellow bed of earth will also retain a reater amount of rain water without displacing other agencies required to carry on vegetable growth.

During very dry weather the fruits growing on the shallow soils are pinched and shriveled and often become entirely worthless, while a deep soil yields up the moisture it has held in store to the multitude of roots which fell the ground. The fruit swells, and grows in size and beauty, and gladdens the heart of the owner in the prospect of an abundant harvest. While the one must effer a small measure of lean, inferior fruit, the other is blessed with an abundant yield of beautiful fruit which is in demand at the highest prices.

It is very true that in many sections the growing of peaches has proved a very profitable business, where the orcharde have been set out on land prepared as for ordinary farm crops, and the orchard has received only the most primitive cultivation; but there is no don't that these same orchards would have nearly doubled their yield of fruit had they received generous care and cultivation.

In selecting a location for an orchard it is well to keep in mind that the nearer the soil meets these requirements in its natural state the less expense will be required in its preparation.

Peaches being perishable and delicate fruit, it is important that they be handled with the greatest care and reach a market in the least possible time, in order to bring

### DAIRY.

### THOSE TISTS.

ED CANADIAN FARMER-I see in your butter making expectors of the Holstei a and Jerays, when and ratiot test. I am auxious to know how in ch the keep of the cows under these tests c st, and whether, att r all, high pressure butter pr duction is any more pr fi cble. I am afraid that our breeders are reaching too much after fancy ficts and figures, rather than useful and practical information.

When one of our breeders wants to make a reputation for his cow, he puts her on the highest stimulating c urse of diet, and as a result, she produces from twenty and rub the choose, which will be prime." to twenty seven or so pounds of butter during a week. Naw, such a test is of little value to the dairying interest generally, because in its production the butter costs a great deal more than it comes to.

Let a breed r take a cow of any breed, feed her good, ordinary, generous food, give her proper attention and attend to the milk and cream and butter-making properly, and keep an exact record of her products, and that test would be of value, because every dairy man could calculate the value of the cow on a practical basi. I am not inclined, like a me of your corres pondents are, to go will over Mr. Fill r' Jerseys, or somebady else's Halst in-The tests published are a great deal over drawn in one way, viz: the amount of expense in feeding is always hidder lugely. I believe that Ontario will see many more days yet before any class of caule will be introduced that will prove any more valuable than the Short hore. Jerseys are too much after the fancy order for me, and I am it c'ined to think that II deteins are much the same.

Yours, Sir, very truly,

A COUNTRY DATHYMAN.

[Our correspondent no doubt strikes a question of importance. His ideas of the high pressure feeding are not wild. As an inctance we may inform the gentleman that one test, of which we have the figures before us bear out his statements, as to the cost of butter thus produced. When Princess II was being tested she produced in the seven days, 27 pounds of butter, but she ate \$11.48 worth of ford, or in other words each pound of butter produced, cost in expense of food alone, 42 cents This we think a striking inhustration of what our correspondent is charging against high pressure tests -- En |

### MULTUM IN PARVO.

The Wisconsin Dairyma..'s Association effered asp ize of \$15 for the best written esany on cheese making in a compact of 249 words, or less. Mr F. D. Curtis, of Syracuse, N Y., took the prize with the essay which follows. By counting it our readers will see that it is just 249 words, no more,

"Pure, whole milk from healthy cows, in luxuriant pastures or fed daily balanced rations in stall, it requisite. The more directly it gots to the vat, the better. If kept over night, reduce the milk to sixtyfive degrees Fahr. Au sgitator, to keep the cream from rising, is desirable. Mix night's and morning's milk when ready to work. If cream is mixed in, warm it and pass it through a wire strainer. Heat the milk slowly to eighty-four ex eighty six degrees. Add your coloring matter and

curl as soon as it can be done without waste, as fine as becchunts. Slowly raise the temperature, gently stirring all the whil; to musty-cioht digrees. Hold it column accasionally refer of the wonderful there to the end. Draw the whey as soon as there . . . least righ of acid, or a little before. Get sufficient rennet action to expel the whey before the acid developes. This prevents the phe sphates from washing out and insures a digestible cheese, when properly cured. If you cheddar and grind or not, thoroughly stir and air the curs, to get rid of bid odors and develop flivor.

Put to present the phe sphates from washing butter Color will be found to be the only off color that will not become rancid. Test it and you will prove it. It will not color the buttermak: It gives the brightest color of any made and is the strongest and therefore the cheapest. Pat to present above eighty degrees, and place in an even tempered curing room at sixty-five to seventy degrees. Avoid direct draughts of air, and carefully tu n

### DANISH BUTTER AND SALT.

That salt does not keep butter is well illustrated by the Danish export butter, which is only salted at the rate of two per cent. of salt, while in America, where we salt butter to keep at, we use a full ounce to the pound, four pounds of salt to the hundred pounds of butter; and yet the Danish butter is warranted to keep two years, while if our butter keeps two months t is counted something wonderful. It is to be apprehended that the longkeeping qualities of the butter are due to removing, by some process other than working, the nitrogenous matter. Tois perfect clean iness is the main thing, and if the milk is perfect, and kept so, the butter, if worked or washed free from cas-in, sugar and the like, and well packed, must have keeping qualities. To be sure, is takes all kinds of people to make a world, but in some way all kinds of people do not take kindly to all kinds of butter that is offered to the public. Now that butter by over-production is only worth about a shilling per pound, it would be worth millions to the butter-makers of this country if they could make a longk eping butter and hold it until next Winter.

The Farmer's Review clips approvingly our correspondent's letters upon the subjut of Winter Dairying.

The Holstein cow, Echo, owned by F C. Stevens, of Allen, N. Y., has just furci hed her in lk record for the year. She has preduced 23,7751 pounds of milk during the twelve months, thus surpassing her former record by over four thousand pounds. One pound of butter was made from 30 per cent, of milk. The weekly jield was 17 per cept.

### A Sudden Attack,

All people, and especially travellers, are liable to a sudden attack of cholera mor-bus, diarrhea and dys ntery. Dr. Fowler's Wild Strawberry is the most prompt and reliable remedy known.

### It is no Wonder

that so many people sink into untimely graves when we consider how they reglect their health. They have a disordered liver, duanged howels, constipation, pues or diseased kidneys, but they let it g and think they "will get over it." It grows wo se, other and more serious connitications follow and soon it is too late to are them. If sick people would take kidl ay Wort it would preserve their lives. It acts upon the most important organs purifying the blood and cleansing the system, removes and prevents these disorders and promotes localili. bealth.

### A Good Time.

degrees. Add your coloring matter and rennet enough to begin coagulation in ten or twenty minutes, as desired. Cut the

Lydia E Pinkham's Vegetable Com-Lydia E Pinkham's Vegetable Compound is to be had at the nearest drug store for a dollar. It is not claimed that this remedy will care every disease under the sun, but that it does all that it claims to do, thousands of good women know and dealers.

### Farmors - Try 111

Quick transit from a state of feebleness, Quick transit from a state of fer bleness, budity languar, and nervous irritability—induced by dyspepsia—to a condition of vigor and physical comfort, follows the use of the standard regulating tonic and stomachic, Northrop & Lyman's Vegetable Discovery and Dyspeptic Cure, which spe dily conquers indigestion, constipation, bilious complaints, and female complaints, purifies the blood, and reinforces the vital energy.

ribbons, velvet can all be colored to match that new hat by using the Diamond Dyes, loc, for any c for at the druggists, Wells, Richardson & Co., Burlington, Vt.

### Great Patality.

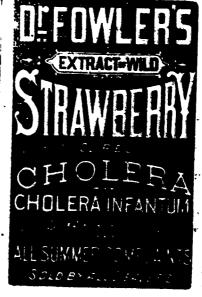
The ravages of cholera infantum and summer complaints among children is ruly alarming. The most reliable cure is Dr. Fowlers Wild Strawberry. Every bottle guaranteed to give satisfaction.

Mr. Gorge Tolen. Druggist, Graven-hur.t. Oat. writes: "My customers who have used Northrop & Lyman's Vegetable Discovery and Dyspeptic Cure, say that it has done them more good than anything they have ever used." It has indeed a wonderful influence in purifying the blood and curing diseases of the digestive organs, the liver, kidn-ys, and all disorders of the system system

A. Mathee, Merchant, Warkworh, writes: I have sold some hundreds of hottles of Dr. Thomas' Eclectric Oil, and it is pronounced by the public 'one of the lest medicines they have ever used.' it has done worders in healing and relieving pan, sore throats, &c., and is worthy of the greates' confidence.

Mis, E. H. Perkins, Creek Centre, Warren Co N. Y. wri'es: She has been Warren Co N. Y. wiles: She has been troubled with asthma for four years, had to sit up night after night with it. She has taken two hattles of Dr. Thomas' Eclectric Oth, and is perfectly cured. She strongly recommends it, and wishes to act as agent among her neighbors.

THEST CLASS DELAWARE FARM for and THEST CLASS DELIAWARE FARM for ealer it miles from town or Farmington, or Plelaware it. it. 10 acres, high state of cultivation, 75 bushols or 1. 30 bushols wheat per acres, 25 acres in timothy and cloud, 62 acres in grain, 70 peach trees, applest peers, cherries and grapes, two storey dwelling, modern finish, outbuildings, three tenant bonses; leastbylocation school and church convenient. Will be sold a bargain, less than cost of buildings, Address AMOS COLE, Harrington, Dolaware.



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My stock took first prizes at all the less shows last Fall, and at the show of the Pou Association of Ontario, at Toronto this year, in no instance has a bird from my yards out the show pen without winning prize. I year 50 per cent of the eggs from my histories, and 25 per cent of these won prize.

Square dealing in the future as in the CHICKS FOR SALE IN SEPTEMBER



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You'st uly. R. E. HallBURTON.
PRIERBOHOUGH, Oct. 15, 1853.

PRTERBOROUGH, Oct. 15, 1853.

A. NORMAN, ENG: Dear Sir.—Soon after I ome menced to use your Electric Appliances the opened my boad, and consisterably relieved in bead, and consisterably relieved in consequence. The descharges from my head and obest are now easy, and I is altegether better. My digestion has improve my stomech is less soon and windy, and I as less troubled with lacelvious and vivid drawn is a previously tried almost all the advertise patent medicions without deriving any gord.

Yours truly, J. G.

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PLETTESSONACH DEARMING DOWN, CAPSING PAIN.

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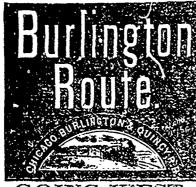
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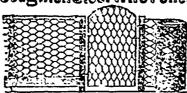
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### a Cara.

To all who are unformed from the errors and index reticus of youth, nervous weekness, early decay, so sof mathood, i.e., I will send a recipe that will cure yeu. FREE OF CHARGE, This great remedy was discovered by a missionary in bould America. Send a self-addressof civelope to the fire. Joseph T. Irman, Station D. Acta Fork City.



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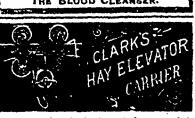
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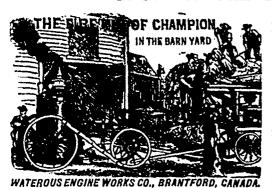
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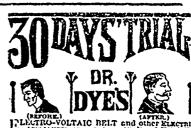
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249—Good farm, 141 acros, 70 cleared and free from stumps. 30 in good hardwood bush; soil partly clay loam and partly sandy loam; spring and wells at the house; fonces are principally rail; frame house on stone foundation, \$6x30, 2 stores, 20 rooms, callar containing brick well 16x20, outside kitchen 14x20; wing 19x19, all in good repair; frame barn \$6x60, collar undersocation stone foundation with eak sills. Barn No. 2, 9x10 near which is a living stream. Taxes \$30 and \$6 days' road work; 2 orchards of 4 acres, containing \$\infty\$ on plue, 200 pear and charry trees all bearing; gravel road (4 miles, school 24 miles, English and Haptist churches 3 miles, Probytorian 18 miles, Michodiet 5, howsh Mill post effice 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.

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### Welland County-Pelham Township.

Welland County—Pelhon Township.

204-This very valuable property, known as the "Relgoville Fruit Frim," containing 35 acros, all of which are cleared and 5 seeded down; fences are rail and picket; dwelling house is of frame, on stone foundation, reofed with sbingles, 45x45, 2 x ross and 10 rooms, collars underneath whole of house 45x45, kitchen outside main building, 3 x39-all in capital repair; barns frame, 40x50, on stone foundation, with root cellar and constable underneath whole of the sold of 50x75, ice house, 15x16, each house and stables, 32x40, shed containing darn an istables, 45x20-all in good repair; taxes smount to 32 and 4 days road work orchard contains 20 acres with the following fruit, viz about 1,600 graps vines, 1,200 peach troot, 200 apples 50 pears, 25 plums, and about a half-acro of strawberries and respherites—all bearing, the farm is situated on the gravel road, school 14 miles away; churches of all depominations about 14 miles; pest office, 20 foot, to egraph 14 miles, Welland, the railroad station and market, 6 miles, is situated on the Welland Railway. Price, \$8,500; \$5,000 cash, balance in 10 years, with interest at 6 foor cent.

### Wellington County-Luther Township,

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