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 AND CANADIAN JOURNAL.
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War. McDovaall, Euitor.
Wm. McDovgall \& Co., Proprietors.
VOL. I.
TORONTO, JUNE 1, 1848.
NO. 10.

Mareing Sheep.-A Member of the Windsor Co. Agricultural Soc. states that the clip of wool sold by the late Dr. Jarvis, of Claremont. one year (krown always to be of the first quality and in good condition otherwise,) shrunk $2 \frac{1}{2}$ per cent by clipping off the tar marks; and that the whole loss in consequence of the large amount of tar used, was. $3 \frac{1}{2}$ per cent. The writer recommends, as a substitute for tar, a paint that can be more easily removed as follows:-"The materials for marking should be lamp-black and linseed oil. If the latter cannot be procured, hogs' lard will do. Mix a small portion of turpentine with the lamp-black before mixing with the oil, It should stand twenty-four hours before using. These who will use tar at all events, for marking, should endeavour to make one small mark answ - rall purposes."

Gasms of Manure.-At the Farmer's Club of the American Institute in the city of New York, a paper was read from Mr. J. P. Downey, furnishing his views and experience on the disputed point of the asce sion or descension of the gases of manures. His experiment appears simple in the process and successful in the issue; he plowed a small patch of ground from eight to nine inches deep, and spiead his manure in the furrows as he plowed; he then took another piece of ground adjoining, plowed it and spread the manure on the top, harrowing it in thorougfily, the soil being of the same quality.He found the former to yield twenty per cont. over the other, although on the first start the corn on the first piece did not thrive so rapidly as the latter; yet, in two or three weeks after it came up, it began to gain, and so increased until the time of gathering, confirming his belief, that the gases of manure "c will not (in his own language) descend, but ascend."

Economy iv Candies.- If you are without a ru.h-light, and would burn a candle all night, unless you use the following precaution, it is ten to one an ordinasy candle will gutter away in an hour or two, sometimes to the endangering of the house :- - This may be avoided by placing as much common satt, finely powdered, as will reach from the tallow to the bottom of the black part of the wick of a partly burned candle, when, if the same be lit, it will burn very slowly, yielding sufficient light for a bedchamber; the salt will gradually sink as the tallow is consumed, the melted tallow being drawn through the salt and consumed in the wick."

Bean Meal vs. Oilcare.- The fullowing interesting expemiment is copied from a recent number of the Transactions of the Highland Society of Scotland. Mr. Bruce, of Haughton, in East Lothian, tried the comparative value of linseed, lin seed cake, and linseed and brans, on lots of 20 ewes each. He estimated each pound of increased weight had been produced at a cost of -


Last lot of sheep had, in addition, an unlimited supply of turnip tops; grown on grass land: By this experiment, the beans and linseed mixed were the most productive, weight for weights qhe linsed colye nezt, and the beans least. productive

How to pievent tae Borning of Cmaneys.-Fires in chlmay in France have, recently been prevented by placing threemrames of wirenwath one foot above each other, near the


## VEgetable Manures.

The principal vegetable substances employed as manure aro straw of all kinds, leaves, saw-dust, bran, oil-cake, sea-weed, and green manures, or crops which are merely sown to be ploughed in, and thus afford food to a second crop, of some more valuable plant.

All these manures when mixed with soil slowly decay, and $y^{-}$eld carbonic acid and small quantities of saline and earthy matters. They dre most advantageo sly used when employed in combination with some kind of animal manure; this is the case in farm-yard manure. Straw alone decays but slowly, but when mixed with the dung and urine of cattle it soon begins to change, and in a short time the whole is brought into a state of decomposition.

In this case a sort of putrid fermentation is caused ; the animal manure decomposes rapidly, and causes a similar changrs to take place in the vegetable substances with which it is mixed ; decomposition proceeds rapidly, heat is evolved, and if the bulk of the mixture is large, this action becomes so energetic that the value of the manure is seriously iujured by the high temperature to whi:h it is thus exposed.

The decay of vegetuble manures may also be facilitated by the addition of lime; for the objection which applies to the mixture of lime with animal mauutes is not applicable to the ordinary vegetable manures. The latter for the most part contain but little nitrogen, their value principally depending on their mechanical action, and on the formation of carbonic acid.
Yegetable manures decay more or less rapidly, in proportion to the quantity of nitrogen which they contain; green manures contain a notable quautity of gluten and albumen, and accordingly decompose rapidly, whilst sawdust, which consists principally of woody fibre, and contains hardly any nitrogen, decomposes slowly. Sawdust is therefore a most excellent substance to mix with the excrement of animals, and other strong animal manures.

Wood sawdust is valuable as manure in proportion to the facility with which it decomposes, and the inorganic matters which it contains; that obtained from young trees decomposes with more facility than the sawdust of old wood. The wood of those trees which contain much resin decays less rapidly than other woods, and is therefore not so valuable as a constituent of mixed manures. Those woods which when burnt yield a large quantity of ashes ich in alkaline salts, are usefal additions in the state of sawdust to maraures rich in ammonia. - Rwral Chemistry.
Niss Eges.-The eggs are made of clay, formed to the right shape, in the hands. After being dried they are whitewasked; when they are ready for use. The matter is so simple, that it only reqires to be thought of, to be available.These eggs answer the purpose perfectly-the hens accepting them as fully as those of their own make.

Effects of Cultipation.-Buffon asserts that pheat is a factrious grain, and there is scarcely a vegetable, whatever its present character on our farms that can be found giow. ing natarally. Rye, rice, barley, and even oats, cannot be found wifd; that is to say, growing naturally' sin their pate. cent perfect state, in any part of the world.

# Agricultuxist and $\mathbb{G a n a d i a n}$ Tournal. 

## TORONTO, JTNE 1, 1848.

## THE CROPS.

From nall we enn hear nad sep, threr is every renson to exper‘ that Canadn will be blessed this year with a fair, if not bountiful hnrvest. The spring crops are looking exceedingly well, and the fall whent, though in many enses mucl damaged by the winter, has recovered wonderfully within the last few weeks, and bids fair if no untoward circumstances happebetween this and harvest to yield more than an average. It is impossiblo to tell with any certainty thus early in the season, what the rosult may be at the time of harvest, but this we know that with a bad winter and bad spring, and poor looking crops of all kinds in the Jatter part of May, it requires no great. experience or prophetic power to foretell that there will-be a bad harvest-that the farmer will be disappointed in his expec-tations-that if he be in debt he will find himself deficient in the means to pay-and if he had intended to make improvements or incur expense, he will do well to keep clear of all unnecessary linbilities. On the other hand, with even a bad winter, if the spring be favourable, as on the whole the prosent has been, and with the various crops promising as fairly as they now do. he may reasonnbly entertain the hope that his labours will be well rewarded, and that he will have the means. to help himself in the way he bad laid out. But it must be borne in murd, that the Caundinu Furmer has to contend with new enemies-to overcome difficulties, the nature and extent of which he is hardly yer able to justly estimate. The potato disease is a serious ovil. The potato crop was one generally cultivated in Cannda, and nearly, if not quite as much relied upon for suppiying food to the family as wheat, and for feeding cattle and fattening hogs, it was of course more in use.Whether the disense will nppear agnin this year is indeed uncertan, but the probability is that it will, and with this expectation a much less quantity of land than usual will no doubt be planted. It would be unwise to risk the loss of much time and Iabour in attempting to raise a large crop of potatoes, until there is good proof to shew that the disease has disappeared. Among the numerous remedies that we have seen recommended. is a recent one sald to lanve been discovered, and tested for the last three years by a German Chemist, Dr. Klotsch. He is to receive ns a reward the sum of $\$ 1,400$, from the Prussinn Goverament, if the remedy protes successful this year. The mode he adopted was-to pinch off about one-balf an inch of the end of each stalk orbranch of the plant when it grew to eight or nine inches in height, and to repeat the operation in the tenth or eleventh week after planting. This would be a process somewhat tedions, ond in this country where labour is so dear. too expensive to warrant the raising of large crops. In the ense of small patches it might be done, and we would reeomment the trinl of the experiment at all events.

Another evil that is much complained of, and seems every year to be getting worse, is the freczing out of clover, especinlly on clay land. After repeated trinls many farmers have become discournged, and dispair of being able to grow elover to any profit. A friend of ours near this city had a field of clover, which yiclded last year from two and a half to three tons per acre, and a a goold crop of seed besides; this year it will not pay for mowing. The.roots were all left above the surfice of the ground by the action of the-frost, and-have withered and died. Now, if two year's crop could be depended on when anfeld is thid down to clover, there wonld be some encourngement, bat in this cinge, nad in many others only onewas obrained;

which proves atself a formidable enemy. It is impossible for tarmers subject to these evils, to keep a large stocl. of cattle; because in Cabuda the pitch furk must nave something to keep it bight, more than half the jent. The dairy therefore in such circumstances can hardly be profitable. Whent is the great resource, but in addition to the increasing ensualties of wenther, the Hessian Fly threntens destruction to this crop. Its ravages may not be so extensive this yenr as last, but we fenr they will be greater. We have thus touched on a few points in Canadian farming which suggest mportant reflections. One is, the great necessity that exists for the application of more science, and more skill to the cultivation of the soil, in order to grapple with these difficulties and overcome them. 太rother which is all we shall mention at present, more particularly refers to the whent crop, and is this; that we should not build too much on present appearances. While our commercial and monetary affairs remain in their present ansatisfactory state, every farmer as well as every other person should zealously avoid debt, whether the crops be good or bad.

## CHEESE DAIRIES

(From Transactions N. Y. Slate Agricultural Society.)
" The choice of those who perform the duties of the dairy should never be entrusted but to pereons in whose upremilting care and gentlentss the utmost confidence can be reposed. All its operations should be conducted with the most punctial regularity, and with such extreme cleanliness that no speck or taint shall be discoverable either abous the interior of the house or the utensils. Throughout Ireland, Scotland and the north of England, it is invariably left to women, and were men to be employed they would consider themselves degraded; but in the southern counties, greathulking fellowsmay be seen seated at the udder, and bandling the seats with their huge fists, as if they had the delicate fingers of a ginl. Females are in every way competent to the work, to which they are better suited by their delicacy and tenderness than men; it is, indeed; a truly feminine employment, and to their hands it should be left.
"The nature of the land, the oldness of the pasture, the age of the stock, and the state of the season, have each a separate influence upon the quantuy and quality of the imuk; thus the milk given by cows in autumn and winter is decidedig ncher than that produced in spring and summer, and yields the greatest quantity of butter in those months, with the least cheese; and therefore, no general average can be made with such accuracy as to merit confidence. The same remark will apply with even greater force to the produce of butter and cheese ; for, besides these circumstances, cows even of the same breed yield a different amount from equal quantites of milk. Generally speakng, a farr annual product of either from each cow 1 g good conduon, may be considered as about 160 to 180 lbs . of butter of superor quality, and 350 to 400 lbs.of whole milk cheese, with a emall quantity of whey butter."
"On proper attention to the construction of the dairy house, materaliy depends the perfect manufacture of cheese and buter, ind nothing should be spared in rendering it as complete in accommodation as the nature and size of the farm will admit. The opariments which are peculiarly appropriate to darry husbaudry are, one for:milh, another for scalding, pressing and saling cheese, and a third:for the implements, and a store room, in the checse daries, which may be placed under the roof. The building should berapart, (though convenent to the farm-yard, from any immediate contact with the odor of the farm-yard or other impurity, as well as from any pond of stagnant water, as nothing more readily acquires an unpleasant taste or smell than milk or cream. The site should be such as to be as little as possble affected by estremes of heat or cold, as a uniform temperature is all-mportant. The floorshould be raised a few inches above the level of the outerground, with slanting gutters to carry of the water used in washing, which is frequently: done, boll for cleanliness and coolness. On thas, it should be observed, that every partecle of milk that happens to be spilled on-he floor should be carefully washed off, or its sourness will impart an unpleasani odor, which will infect the entire heuse ; and it 33 extremely material thar the building should be-hept as dry as possible, as damp is also highly prejudicial to the operation of the daity.
" The atensils of the dairy are familiar to all engaged in the buginess. The form of these utensils, is matter of secondary mportance, in comparison with that of extreine cleaniliness which is the chiff fequisite in all the operations of the dajity; and those vessels vinct ean be the most easily clainsed, tare the beat to be employed." The dairy maid should be a careful, cleanly persorr, nad the flocrot the daryythould
 ذ
used for holding the milk, and all the dairy utensils, after being first washed thoroughly clean, should then be rinsed a first and second time with sweet milk: "a cruet, washed ever so clean whit water, will cause vinegar to become drezgy, but if rinsed with a little of the sine, will nlways appear limpid and clear"
"The muin point is the supertutendence of the dairy; fur unless that can be conflded to the mistresa of the family, and she be un eray respect competent to conduct it wath judgment, regularity, and thit persevering industy which is nctuated by motuves of self-interest. it will be only rarely found to afford any materal profit The making of butter and of cheese are also essentally different; for alhough every dairywoman ought to be well açuanted wath the furmer, yet excepting in the United Kingiom and in Hulland, no two dusircte in any other part of Europe manufacture cheese of a simular flavor. This extraordinary difference has been attibute $d$ to the nature of the pasture on which the cows are fed; and this, doubtless, must have some effect, for experiments have been made by experienced persuns brought from places where they have regularly lired, and well nequainted with the mode of making the peculiar quality there known, and yet when moved to another spot, they have not succeeded."

Milk.-"The chief component parts of milk are those, which, when separated, are known as forming butter and cheese; the residue of which is called whey. These are distinguished by scientufic persons as the butyraceous, or oily substance producing crenm, of which butter is composed; the caseous matter of which cheese is formed, and ecrum or whey:


This can only convey a general idea of the component parts, for they must necessarily vary according to the quality of the mitk.

The analysis of skimmed cows' milk is stated by chemists to be:

| Water | 97.8 .75 | parts,do. | of 1060. |
| :---: | :---: | :---: | :---: |
| Cheese with a trace of butter. | 37. |  |  |
| Sugar of milk,.......................... | 35. | do. |  |
| Muriate of potash,................... | 1.70 | do. |  |
| Phosphate of potach,. ................. | 025 | do. |  |
| Lactic acid with asetate of potash,. | 6. | do. |  |
| Earthy phosphates,........... ..... .. | 0.30 | do. |  |

"Instruments have been invented, called lactometers, for ageertaining the richness of milk in nearly the same manner as that employed for trying the strength of spirits. The difference in the quality of milk between particular cows may thus be determined, bat it does not show whether the caseous or butyraceous matter predominates."
"The making of butter appears to have been known from the earliest history of the Island, for when invaded by Julice Cæsar it was a common food of the Islanders; but the art of making cheese they learned from their conquerors. It seems extraordinary, that a people in possession of large herds of Kine, coull be ignorant of the art of making some sort of cheese from the sour curd with which they must have been acquainted; it is indeed described in many ancient authors; yet no mention is there made of the rennet with which it is now formed, nor is it known when the use of that article was first discovered."
"The mode of making cheese, though in the main points appasently the same, yet is subject to more variety of minor details in the spractice, than that of anything formed of one material; and thus many different qualities are brought to market, each beating some distinet character of its own. That many of those klnds, which are by connoisears thought indifferent, might, by other management be more nearly asaimilated to the superior sorts, there can be little doubt; these peculiarities have, in many districts, attached a certain degree of value to their flavor, while in others it would seem to be imparted by the natural grasses on the soil. This applies more especially to Cheshire than to any other county ; for although imitations of different districts have been, in some cases, succesfully made in others, yet in no trial has cheese of true Cheshire flavor been produced when made from cows fed on other soils. Whether justly or not, it has been nttr buted to the abundance of saline particles in the earth, as evinced by the numerous salt springs which abound throughout a large portion of that county, and as so old a remark, that Fuller, in his "Worthies," when speaking of the county, says: "It doth afforde the best cheese for quantitie and qualitie, and yet the cows are not, as in other couneries, housed in the winter. Some essaied in vain to make the like in -other places, thoughe from thence they fetched their Kine, and daire maids; it seems they should have fetched their ground too, wherein is surelie some occult excellence in this kind, or else so good chsese will not be made." There must indeed be some truth in the obsergation, for it is well known that where $b$ ine springs most abound, the cheese is ever esteemed, to be of superior quality. Whatever may be the fonndation of the fact, the quality is, however, always better when the cows ar pastured during the summer monting.
"Although cheese may be made from the curd, which has been formed by the coagntation of the milk when it turas sour, yet when thus obtained it is hard and ill flavored; many have therefore been found to curdle it with " rennet," which is made from the gasiric juice of animals, but more especially from that found in the maws or stomachs of sacking caives, that have been fed eatirely on milk.

The preparation in Cheshire io as follo xs " Whon the maw comes from the butcher, it is aluays found to contain a chyley or curd-like matter, which is freguently salted for present use; but when this chyley matter is taken out, and the shin cleaned from shme and every apparent impurity by wiping or gently wash ng, the skin is then filled nearly fall of salt. and placing a layer of sah on the boton of a mug, the skin $1 s$ placed flat tpon it The mis is large enough to hold three skms in a course, each of which should be covered wi hate; and w'in a suffiven' number of shing are thua placed in the mug, it should be filled up with salt, find pur, wh ha cover over it, into a cool pla e till the approach of checse maning, in the following year. The skins are then all taken out, and laid for the brine to drain fiom them, and being spread upon a able, they are powilered on each cide with fine salt, and are rulled amooth with a pase roller which preases io the solt; after that, a thin splunt of wood is stuck across each of thein, to kerp them earended while they are hung up to dry.
"The maw skins are put into an open vessel, and for ench okin pour three pints of apring water; let them stand $2 f$ hours, then take out the skins and put them in other vessels; add for each, one pint of spring water and let them stand 24 hours as before. On taking tho skins out the second time, gently stroke them down with the hand into the infusion; they are then tone uih. Mir these two infustoas together; pass the liquor throug'i a fine linen sieve, and add to the whole a quan'ity of salt rather more than is sufficient to saturate the water, that is, until a portion of balt remains undissolved at the boltom of the vessel. The next day, and also the summer through, the feam as it rises, is to be cleaned off, and fresh salt should beadded. Somewhat less than a half pint of this preparation will generally be suff. cient for 60 lbw . of cheese; but when for use, the whole should be woll stirred up"

Preserving Clover Serd.-The unusual productipeness of seed in the clover crop of last season, induces me to scize th is auspicious moment to offer to agricalturists, the following remarks, referring to the supposed deteriorating influence of age on clover seed:-

There is a general opinion that seed is not fit so sow which has been kept over one year, or, that its vegetative principle is less active. Acting on this opinion, $n$ farmer will sell all bis surplus seed at four or five dollars per bushel, and be constrain ed perhaps the following year, to supply his farm nt the rate of \$8, and sometimes $\$ 10$. This often happens, as for the last twenty years in our country, we have not had two consecutive scasons favorable to clover sced: this error, therefore, so injurious to the farmer's interest, should be at once corrected.

The seed of the second jear may be slower in sprouting than the first, I ndmit, this may be accounted for, in the increased hardness of the hull, a difficulty easily overcome by soaking the seed 24 nours previnus to sowing, in a oolution of sult-water of the temperature of 120 Fah . Then dry it with lime, plaster of Paris or nshes, and with a good season and soil, it must grow and no mistake.

Let the farmer then, while seed is plenty. attend carefully to its preservation. When brought from the mill, (if perfectly dry) put it awny in one or two bushel sacks, suspend them Proma the joists of his granary, where the tempernture is equal, and I will guarantee its fertility for ten years or more.

No agricultural paper to my linon ledge has ever given a hiat, on this subject, and should you deem these remarks of any value, you may give them a resting place in your admirablo journal.-Am. Far.

Mangel Wurtzrl and Carrotso-Dr. Thompson, who was employed by the Royal Agricultural Society to superintend some experiments in feeding stock, states that after trying mangel wurtzel for four successive years, he came to the conclusion that cows fed on it gave quite as much milk, but much less butter and cream than when fed on carrots or turnips; that when ewes were fed on mangel wurtzel the lambs did not thrive, owing to the poor quality of the milh.

A few years agi we had occasion to feed three cows during winter with several kinds of vegetables. We fed mostly with potatoes, giving each cow about a pects per day. On changing from potatoes to the same quantity of su yar-beets, the mills decreased, and was evidently of poorer quality. The beets were increased to half a bushel to each cow per day, and this brought up the quantity of mi'k to what it had been with the peck of potatoes; bet the quantity was still inferior, affording a less quantity of cream, an i proporionately less bitter, which was of a lighter color, of a less firm texture, and not so rich a flavor as that made while the cows ate potatoes. It is proper to say that about a quart of corn meal was given to each cos per day, through the whole trial.

## THE POTATO ROT

The Boston Courier contains a communication from Professor Horsford of Cambridge, giving the views of Baron liebig, the celebrated chemist, and Dr. Klotsch, an eminent vegotable physiologist, keeper of the Royal Herbarium in Berlin, on this baffling disease. The substance of Dr, Klotsch's discovery is annexed:-

In the 5th, 6 th, and 7 th week after setting the tubers, and in the 1th and 5th week afier planting out germs furnished with roots or at a time when the plants reach the height of six to nine inches above the soil, we pinch off the extreme points of tho branches or twigs to the extent of half an inch downwards, and repeat this on every branch and twig on the 10 th and 11th week, no mater what time of day.

The consequence of this check to the develupment of the stem and branches, is a stimulus to the nutritient matters in the plants in the direction of the increase, both of roots and of the multiplication of the branches of the stem above ground, which not only favors the power of the root, but also strengthens the leaves and stalks to such a degree, that the matters prepared by the physiological action of these parts are increased and applied to the formation of tubers. The checking of the transtormation in the leaf is equivalent to the interraption of the natural change of the leaves into calyces, coralla, stamens and pistils, which is effected at the expense of the nutritient matter collected in the plant; and these, when this modification of the la aves is arrested, are turned to account in the formation of tubers.

Led by these viewe, I made, in 1846, experiments on single potato plants, carefully marked, by pinching off the ends of the branches. They were so readily distinguished, in their eubsequent growth. from the plants beside them, by more numerous branches, darker and larger foilage, that, in truth, no marking was necessary.

The produce from these plants of tubers was abundant, and the tubers ware perfectly healthy-while the plants next them, which had not been so treated, gave uniformly a less produce, at the same time the tubers were rough on the surface, and in many instances attacked with the prevailing disease. This experiment was incomplete, and did not give a positive result, but it was not ye- encouraging for me.

In the middle of April, 1847, an experiment was made on a low lying field, with the round white potatoes generally cultivated herea variety which had not suffered much from the disease which first appeared in 1845. The potatoes were planted in the usual way by an experienced hand.
After weeding them in the end of May, I renewed my experiment, by pinching off the points of the branches of èvery second row, and repeated this in the end of June. The result surpassed all expectations. The stalks of the plants fnot treated on my plan were long, straggling, and sparingly furnished with leaves, the leaves themselves smail and pale and green.
In the next field, potatoes of the same variety were planted on the same day, and left to nature. They appeared in the first six weeks healthy, even strong, but gradually acquired a poor aspect as the time of flowering and fruit approached, and finally exhibited precisely the same appearances as the rows not treated by pinching off the extremities, in the field in which my experiments were made.

The harvest began in the surrounding fields in the month of August, and was very middling. The tubers throughout were smaller than usual, very scabby, and within these fields, to a small eatent, attacked by the wet rot.
In the end of August the difference between the rows treated by me and those not treated, became so strhing, that it astonished all the work-people in the neighborhood; who were never tired of inquiring the cause. On the contrary, the rows treat $d$ as above, were lasuriant and in full vigor, the plants bushy, the foliage thick, the leaves large and dark green, so that-most-people supposed they had been later planted.
But the difference in the tubers was also very decided. The tubers in the plants in the rows treated on my plan were not indeed larger, but vastly more numerous, and they were neither scabby nor affected with any disease whatever. A few had pushed (which was aecribed to a late rain) and were apparently incompletely developed, while scab and wet rot attacked more and more the tubers of other phants which also fell off on the slightest handling.

Poisonous Property of Brine.- it is not to be wondered at that your pigs should be suffering, if, as you state, "a porition of brine got mixed with their wash," and they partook of the same. We have the authority of the late celebrated veterinarian, Mr. Youatt, for stating that $" 6$ the brine in which pork or bacon has been pickled is poisonous to pigs; ${ }^{\prime \prime}$ and that "s several cases are on record in which these animals have died in consequence of a small quantity of brine having been mingled with the wash, under the mistaken :mpression that it would answer the same purpose and be equally as beneficial gs is the admixture of a small quantity of salt."

## CRUELTY IN THE MANAGEMENT OF SHEEP IN LOWER CANADA.

We find the following communication in the Montreal Witness. If the statements of the writer be correct, we must say that the farmers of Lower Canada are deplorably blind to their own interests, and more than semi-barbarous in their feelings. If they can grow rich by managing sheep upon such a system, we can only say that it would be an impossibility in Upper Canada:-

Virtue Roadhead, April 27.
Dear Sir,-An carnest desire that breathes through the columns of your paper to improve the condition, and increase the comforts of our own race, unduces me to hope that you will admit into the agricultural department of the Witness a few words in behalf of a numerous race of animals, to which we are indebted for a great many of our tentporal comforts-I mean the sheep. The miserable conditiun to which these useful animals are annually reduced, through the ignorance or negligence of those who have the management of them, is really deplorable. One would alnost need to see before believing the almost incessant torture to which they are subjected by their ignorant and merciless owners. One would think they are kept by many of the Lower Canada farmers for the very purpose of vexing themselves, and making the poor creatures miserable. Profits from them there can be none; those of them who are able to crawl about at this season are allowed a kind of lawless liberty, during which period they acquire restless habits, for which they shall severely suffer by and by. As soon as the "braird" is 30 long that they can crop it, they are taken and shut up along with, perhaps, some half dozen or more swine, very like what is called the land-pike breed, into a small enclosure, which is called the sheep pasture, but would be better designated the prison. If there happen to be any green thing at all uponit, it is quickly eaten off or rooted out. Hunger and previously acquired habits induce them to break their prison, and then commences a course of punishments painful to relate. The first I shall mention consists of four pieces of wood about three feat long, fixed together 60 as to fit tightly about the neck. "A flock of sheep loaded in this way present rather a comical appearance when all are moving forward with theis "gates" on their necks; but this does not always answer the purpose-if the fence is low they will sometimes crawl over, "gate" and all; then paring off the hoofs to the quick, tying two legs together, and similar tortures are resorted to. The last I shall mention is worthy of tho Inquisition-in consists in doubling up one of the fore legs with the sole of the foot towards the shoulder, and tying a string firmly about the double leg, a little above the Enee joint. This always proves effectual; to get a little ease they must lie down, as this posture brings the distorted limb into something nearer its natural position. Whenever I see this mode resorted to, I feel a sympathetic aching in my own hand and arm, with a strong inclination to be over the fence and cut the string ; but as that would be considered meddling witb other people's businese, we must lenve the sheep to "dree their weird" until the month of October or November, when they will get a short respite, but for which many flocks would never yield iacrease. But there are yet other measures awaiting them of a searcely less revolting and painful nature than those mentioned above. As soon as winter sets in they are shut up every-night in a payrow and unclean place. where their dung 18 allowed to accurnulate for months, and if any quantity of straw has been supplied, the whole often gets into a state of strong fermentation, and not the least attention is paid to ventilatuon. Open the door of one of those pens on a elear frosty morning, and the gases accumulated within will blow into the atmosphere like smoke from the mouth of a cannon, the poor halfsuffocated creatures run out into the cold in a state of perspiration, and in a few minutes are shivering with cold. Their foed is pea straw, an article that copr tains but a small amount of putriment, and mose especially atter a French Canadian barnman has had satisfaction at it with his flailwsearch for a pea, after him, would be a fruitless one. The naturat consequence of this hunger and filh is swarms of vermin, so that by the middle of winter their coat is all in tatters, and by the middle of March some of them almost entirely naked; and this is not the case only amongst the French, but even in the hands of those who ought to, and I beleve do, know better, and what are reckoned some of the best flocks in the country, too. Only think of a half naked creaturs subjected to the alternate extremes of heat and cold, ill fed, and snow to eat instead of water to drink! You might. conclude they were experimenting on scientific starwation: 2

Now, Sir, there is no mystery at all about the management of a small flock of sheep in Canada, so thatit they may prove a source of both pleasure and profit to any who may choose to keep them. I shall say nothing of the merits of the different breeds, lest this turms out too long a story, and be thrown out for intrusion. Let every body please themselves in this respect, but the treatment in all should be nearly the same. Just now is the time to catch their affections; and give them a kind of moral training, which will prevent them from running into mischef through the course of the whole year. Keep them close confined, but as much in the opeh air as possible, feed them regulariy three times a day with clean, nourishing foode say ur
nips or carrots, and clover hay as much as they can eat ench time, but nothing more; speak to them in a kind tone, and never get angry with them, although they should run upon your legs and tumble you down; a few days of this trentment will subdue the hardest heart amongst them, and they will follow wherever you please to guide. When the grass is sufficiently long, they should be led to their pasture, and the gates shut after them. I prefer leading, or learning them to follow, to driving; the idea is much more tender and practical, and likely to raise the mind in love and gratitude to the great, the true Shepherd, who "leadeth his flock's in the green pastures by the still waters."

## BUTTERS' PATENT BRICK MACHINE.

The following remarks are supplied by a respected cor-respondent:-
These machines, of which favorable notice was made in the Agriculturist on a former occasion, are giving excellent satisfaction to those who have purchased them. They are an entirely new machine, combining principles that were never brought into use before in the manwacture of bnek, and are completely destitute of complicacy, and hence are not likely to get out of reparr. The horse grinds the clay, and at the same time moulds the bricks and brings them out upon the pallets, so that they may be put upon the barrows, and thence placed in the hake, under cover, without being exposed to receive damage from the rays of the sun or rain. With the machinc, one horse, five men, and two boys, fifteen thousand bricks may be manufactured in a day of ten hours. The pug-mill or grinding apparatus is the most efficient machine that has yet come under notice for granding and tempering clay. The presser, which fills the moulds, is attached to the shaft, and the amount of pressure required for the different kinds of clay may be regulated by raising or lowering it upon the shaft. This machune is exceedingly portable, so much so, that it may be removed from one point to another with as great facility as the ordinary portable threshing machine. This one machine may be made to supply a whole settlement or township with brick. They are particularly adapted for country villages, and may be worked with the greatest ease and certainty, by persons entirely unacquainted with the usual practical operation of brick-making.

The patentee, Mr. Butters, has secured a patent for his machine in the United States, and is now manufacturing them in Buffilo, with a view of supplying that country. The demand for them in the Western States, it is said, has already exceeded the most sanguine expectations of the inventor, and as a large amount of money and time has been expended in perfecting the machine, we trust that he may reap a rich harveat from the sales.

We are informed that George Munro, Esq., of this city, has made arrangements with Mr. Butters, by which he will be able to keep.a full supply of these Brick Machines at his establishment, where they may be seen by those who are desirous of inspecting them. A. E.

## BUTTER AND CHEESE.

Butter and chesse are articles of produce which might be made of great value to Cannda. Our milk, as it comes from the cow, is admitted to be of most excellent quality, equal to that of any other country. It must, therefore, be our own mismanagement of it, in manufacturing it into butter and cheese, that is the cause of these articles, being generally of inferior quality. It is unduubtedly very discreditable to us, that when nature gives us milk of the best quality, we should make butter and cheese from it, very frequently, of the most inferior quality. This, we maintain, is altogether from the want of suitable dairies, and skilful managennent of the milk in the process of manufacturing into butter and cheese. We have, in this number, given a description of what would be suitable daries, and we may safely state that few, if any, farmers have such daries. They might be constructed on a judicious plan, and to answer the farmer's purpose without incurriag a grent outlay. We do not expect that farmers generally should have them equal in every respect to those we have described, but they might approximate to the plan, if they would only see the necessity of the dairy being the most well finished, best ventilated, and appiopriately furnished apartment on their premises, for the use in which it is intended. If cleanliness, a perfect ventilation, coolness, and pare dry air, are actually necessary in any place appropriated to the keeping of milk, and making butter and cheese, how many such dairies have wc in Canada? We may safely answer, there is scatcely one! The milk is very generally liept here in a portion of the dwe'ling bouse, partly, if not altogether, below the level of the ground, and not having sufficient ventilation. In the same celler is kept all sorts of vegetables, meat, fish, and other articles, not perhaps in the same apartment with the mills, but in a situation to impregnate the air of the cutire cellar wlth all
sorts of smell, and it is well known that milk and butter is sure to partake of nny foul air in the immediate vicinity of where it is kept. The fioors of cellars are usunlly damp. and loose phanks are usanlly placed on this damp floor, where milk is frequently spilled, and creates a most foul smell. The walls are also dump, and indeed the whole thing is as unfit for a dairy as possible, and never can be washed, cleaned, and nired, as it should be. How then can we expect to have good butterand cheese under such circumstances? The thing is impossible. We know there are many farmers who have ueat little buildings for summer dairies, detached from all the other buildings, but they are generally without any shade, and defective in their construction. It is not possible to muhe good butter or cheese in our climate, however good oui milh, without suitnble duiries, proper temperature, and skiltul management.-Agri. Jour.

The Hessian Fay.-We are very glad to find that this destructive insect is not likely to do much injury this year. On Monday last, we examined two or three wheat fields in the vicinity of this city, and had tu search some time before we could get a sight of the " enemy" at all. At length we pulled up a stalk on which were two of the larve or eggs of the fis. Last year, in an adjoining field, about two weeks later than this, we could herdly find a stalk on which there were not three or four, and in many ten or twelve. The weather of last winter and spring has probably been unfavorable to the fiy, for which the farmers have good reason to be pleased. If other fields are not visited to a greater extent than thoge which we examined, there is very little to fear from the Hessian Fly this season. We have some reason to complain of our readers and correspondents for not giving us any information on this or: other topics during the last month. We are thereby unable to speak with any certainty as to the prospects in other parts of the country. In the Home District, wheat, generally speaking, never looked better on the 1st June, than it does nt present. Spring crops also are coming on splendidly. The farmers' hopes are sanguine. These observations are mado after a short tour in the country, and just.before going to press. Those on the same subject on another page were written two weeks ago.

## FLAX.

From the Montreal Agricultural Journal.
I now propose making a few further remarks on flax, and, as Ido not intend troubling you with long articles, 1 may address you frequently. My object is to keep the subject before the people, and to give tnem a monthly bint.
We must not be discouraged because our fellowt-countrymen are so listless to all agricultural improvements. The Belfast Society at first began with but one mill-now, there are twenty-five mills in Belfast, and from fifty to sixty thousand persons enployed in the trade. The objection that Flax exhausts she ground, ought not to be considered 2 very serious a ne. If the fiax be steeped in a pitabout ten feet deep, and, after the flax is removed, this pit should be filled with weeds and bog stuff, peat or mouid, this will make manure of the beat quality, and restore to the soil what the flax drew from it.

Why do we import linseed oil in Canada, a country so favorable to the production of flax? We should not only manufacture all the linseed oil we require, but we should not allow a pound of linseed cake to be exported: we should consume it all here,-feed it to cattle, the manure from which would be famous for the lands upon which a flax crop is to be raised. Linseed cake is sold in the city of Montreal at an extrakagant price: this is the effect of want of competition.
I am persuaded that Flax Mills would be of great benefit to the whole country. Tiey would employ the poor, introduce a new crop,-make good farming more profitable: In Flanders, flax is a staple crop. The industrious and intelligent farmers of that country must be satisfied that it is a remunerating crop, or they would not engage in itt.

I perceive by the Toronto Cultivator that Messrs. M'Gee \& Co., proprietors of the Patent FIemp, Flax, and Oil Mills, at Toronto, advertise that "having secured by Royal Letters Patent, the invention of an entirely new process, especially adaped fer this country, for the preparation of Hemp and Flax, hereby give notice that they are now ready to enter into engagements to an unlimited extent with all persons wishing to sow the same." I should like to see a simtlar announcement from a Montreal house, in a sacceeding number of the Canndian Agricultu, al Juarnat. The Lachine Canal of fers, for varives reasons, one of the most favorab'l spo's for the eref tion of such mills. If by no other means, could not gach mills be erected by the establishment of Joint Siock Cumpanics? Aarioosa

## NEW MODE FOR SETTING POSTS.

The first, and one of the most important subjerts to be considered in the commencement of farming is that of tences, and as there is no other husiness that requires more wisdom and cconomy to ensure success, it is necessaly first to determine on good fences in all cases, and then to consider how they may be made good at the least possible expense. As the post and board fence is adapted to more situations and crcumstances probably than any other, and as the manner of constrncting it is somewhat varied and expensive under any and all circumstances, it may be well to surgest here a new and cheap mode of setting posts, which is the most expensive part in labor of constructing a good and cheap bnard fence.
A small pile driver may be constructed so as to fit the holsters of a common waggon, with the hammer to work immediately behind the hind axle tree; the hammer should weigh about two hundred pounds, to be able to drive large poits with facility, without being too heavy for one horse to draw up without a purchase; the frame work may be so constructed as not to be unwieldy, or much more inconvenient to shift on or off of a waggon than a common hay or wood rach. When in use, the waggon containing the machine must be placed on a Jine with the fence, with the hammer directly over where the post is to stand, the wheels firmly blocked, and the horses detached. The post, having been sharpened, is raised to its place by the hammer rope, in the same manner as heavy piles are raised, when a few drops of the hammer set it firmer than could be done by digging a hole for the purpose, and with less than half the expense of labor. The horse is then attached to the waggon which is drawn to where the next post is to stand, and the same process repeated. This method may be adopted on all level land with the best success; it is a perfectly simple operation, and so cheap that it only requires an introduction to get it into use in a very short time.
Pile-driving, heretofore, has been very correctly considered a heary and expensive business; but when we consider the difference between the expense cf building and working a machine to drive large piles, thirty or forty feet deep, and another to drive small ones, two or three feet, it will be readily seen that fence posts may be driven, in the manner described ahove, much cheaper and better than they can be set in any other way. When the posts are set, the boards should be nailed on the middle post with one nail in each, and allowed to lap at the ends from four to siz inches. A narrow board showid be put up and down the posts to cover the ends of the boards, and pins made of cedar or some durable timber, put through into the posts, passing under the boards to prevent any bad effects from the expansion and contraction of the boards in wet and dry weather, which, though very small in one length, smounts to enough to do much mischief, in loosening posts and breaking nails, in a long stretch of strait fence. The posts should be sawed off at the top, with an inclination downwards from the face, and a short sound piece of board nailed on to carry off the rain. This is the cheapest good board fence that oan be made, and should you consider it of consequence, I will give you a plan and estimate of the expence of a mecha:ic, and the building of such a fence.-Cultivator.
Pressrvation of Trimber.-The Vermont Chronicle gives the following method of preserving timber, which was communicated by A. A. Haynes, Esq̆., of Roxbury Laboratory, some time since. As many inquiries are being made in regard to the method of lyyanizing timber, it will doubtless be acceptable to many of our readers:-
" 1st. Blue vitriol is the article used for preserving timber from atmospheric exposure. 2nd. One 1 l . dissoived in 40 lhs . af water, gives a solution, in which the timber must be immersed till it is saturated. The saturation is observed by boring one of the sticks, boards or shingles. A moderate warmth greatly aids the penetration. 3rd. It preserves all kinds of timber from tot, by taking up and rendering solid the albuminous juices, or sap.
The reports of the railroad agents are full, in relation to trials continued now thiough five years under all exposures. All the unprepared timbers have been twice replaced, and the prepared timbers are all as sound as when first laid. The resail price of blue vitriol is from 8 to 9 cents per 1 b .;
Wire Worns,-It is said that plowing late in autumn, and beeding two successive years with buckwheat, will destroy all wire worms in the soil. Another way' is to summer-fallow yery thoroughly, so as to starve them out, as they cannot subsist on the elements of soil.

Cannots as Food for Stock.-At one oi the agricultural mectings held in Boston during the pnst winter, the subject of cultivating "root crops" for stock, was discussed. The general expression was, that the carrot is the best root for this purpose, in situntions ndapted to its growth. Hon. Mr. Brooks stated that he han made experiments in feeding carrots, and for young stork he thought them as valuable in weight as good hay. He thought they did not produce as much milk, when fod to cows, ns potators: and hogs preferred potatnes. He considered carrots compared with oats, to be worth 33 cents per hushel when oats wero worth 50 cents-that 101 liss. of carrots were equivalent to $31-2 \mathrm{lhs}$. of onts. He considered the tops of carrots of sufficient value to pry the expense of harvesting. He put them up in small stacks out of doors, and they kept good till mid-wiuter.

Mr. Rice suid he sowed carrots enrly in May on light land -usual crop 500 bushels per acre- 40 bushels weigh about a ton, and were worth ns much as half a ton of hay.
Mr. Proctor said 35 tous of carrots had been grown on an acre nt $n$ single crop, and it was not uncommon to ubtain 32 tons. Most of the speakers mentioned that the blight had injured their carrots, more or less, of late years.-Cullivator.
Ori Opinions often Correct:-An opinion very long since prevailed that the beneficial effect of snow on vegetation was produced by the nitre (saltpetre) contained in it, and that the sume salt existed in hour frost. Thompson undoubtedly entertained this idea, when he wroto his "Winter," in which he nlludes to the fertilizing infuence of snow.
Chemists, however, some years since, exploded this notion; but the nicer analyses of modern investigators have detected ulike in snow and in rain water, the nitrogen which was dissolved in the ntmosphere, showing that "there is nothing new under the sun." and that our forefathers were not so ignorant as we idly think them. The most profound resparchers of chemistry also, now prove that the old practice of fullowing was based on the soundest chemical principles; and that, in the days when cattle were piincipally maintained on common pastuas, and manures consequenily rare, nothing could be better for the soil than frequent fallows - $A m$. $A g$.
How to Render Negat Soil Inodonous.-By mixing this substance with burnt mud or peat, and fincly pounded charconl, its odor will be instantaneous removed, while they will retain the ammonia, by means of the power they have of absorbing that substance. The quantity of charcoul or burnt mud necessary to be used, will depend on circumstances, and can only bo determined by uctual experiment. As a general a ule, one part by measure of the charcoal or peat, to five parts of the night soil, will be sufficient to remove the smell and form a rich ma-nure.-Am. Ag.
How to Maxe Rusis.-Take 7 eggs well beaten; new
 and beat the whole well together, with as much flour gradually added as will maken very light paste. Let it rise before the fire for half an hour; then idd a little more fiour; from the mass into small fattened lanves or calies five or six inches wide; nnd buke moderately. When cold, cut them into slices the size of rusks, and put them into the oven again to brown a little. This makes a nice tea-calke when hot; and when seasoned with caraway-seed, it is good to eat cold.
Keeping Dried Fruits.- In answer to the inquiry in a late number of the: Cultivator, à correspondent at Fredonia, N. Y, writes-"Give the fruit a thorough steaning, after it is dried so as to kill the nits of insects; then put them in some secure place where the fiies cannot get to them."
Cheap Piaster for coarse finish.-Take one part clay, three parts of river sand, mix with a protion of the sand when wet, sufficient quantity of hair-thoroughly mix the whole mass intil of a proper consistency, and use as lime murtar.

The above makes a good hard wall near:y or quite as serviceable as lime for inside f....h. The abovp has been tried in this vicinity and endured for years.-Cuilivator.
Eieprosy.- Put a piece of lime the size of a goose egg. into a tight vessel-pour in four quarts of hot water, and covger the vessel with a cloth-I do not vauch for the truth of it; but it is said to be better than when the vessel is left uncovered When it has become cool, tura off the clene water, and wash the disordered spots two or three times with it, which is all I have found necessary to work a cure.- Cultivator

Motrs.-A small pi ce of paper or linen inoistened with tur pentine, and put it into the wardrobe or drawers cora single day Beveral times a year, is sufficient preservative: against mothas

## CTIUITS ANID SOCHALS.

## THE CURRENCY AND BANKING

concluded.
With this paper we draw our remarks on this subject to a close. The question of a Bank of Issue we shall not enter fully into, but leave in for the discussion of polacal journals. We may, however, glance at some of the more promment features of a bank il issue.We are quite at sea as to the form in which such a scheme wrould be proposed by the finance minister; so that we have nothing tangible to criticise. "Just as the painter pleases," we are at hberty to make a bank of 'issue assume euther the form most agreable or post hostile to our own opmons on the matter. Perlaps the greatest objection to any scheme of the kind would be, its plac ng too much power, for good or evil, in the hande of the government; though we imagine that a system of this kind might be devised, in a great measure free from such influence. The common notion upon the subject appears to be, that if a bank of issue were to be established, all the paper money in the country would necessarily be $188 u$ d on the credit of the province, as it is called: that is, that the pubhe revenue should be held responsible for the payment of the notes. This seems to carry the idea of a scheme necessarily very contracted. The usual revenue of the province is about half a million rounds carrency; and this, every one will admit, is much too narrow as a basis for the amount of artificial currency that may be necessary for the trade of the province. But there are other sources than the annual revenue of the country for widening the basis of a national curyency, issued on the plan now ander consideration. This plan whuld neeessarily supersede all the banking insticutions now in existence in she couniry. They would probably become circulators of the Provincial paper, aharing with the government, or in oiher words the profis upon the issues. When they received the provincial paper, they would be required to pay, in hard cash, a large percentage thereon; and give security for the payment, at a definte period, of the remainder. This money so received at the principal establishment, would form, at least add to the basis and security of the proyincial paper, and answer occasional calls for cash that would be made upon the bank. Under this plan the currency might be kept free from any very violent actions uponit; and the extent of it might Invariably be kept within the counds of prudence. The public would then share the profis on artificial augmentations of the national cur yency, which prufits now flow exclusively into the pockets of private companies. On a superficial view of the scheme, this undoub.ediy appears as its chiet recommendation; as indeed it will be, if ever so closely scrutinized. Such a scheme having clearly one advamage in favor of the public, the who'e question becomes one of advantages and disadvaniages-of certain good and possible evil. These we do not intend to weigh in the ecales, or to pronounce a jadgment upon. We leave that to the nice discrimination of the politician, who take oognizance of motives and tendencies to corruption, and who sees the germ of national ruin in things which it is not our province to examine. He will, however, find that this is mo sulject to dogma:ize zpon. Undoubledly the aid of history may be invoked. The Bank of England, and the National Bank of the United Staies, (the latter long since ceased to exist) and their influence upon the prospatity of these countres, will no doubl farnish legitimate illustrations. Some contend that any system of banking, connected in any way with the government, is bad; and perhaps an equal number hold the contrary opinicn. We shall not assume the office of umpire between them. If the question should ever come up before the country in a pracuca! shape, we should feel ourselves free to enter upon the discussion of it. We apprehend, however, that no measure will, during the next zession of Parliament, be proposed for estableshing a Bank of Issue.

## OUR PRESENT DIFFICULTIES.

贸解e present is a trying time for Canada. The crisis is probab'y more severe than any that has yet been felt. All kinds of trade, traffic and mechanical industry are at a arand atill. Hundreds of our
mechanics have already leff, and more are every day leaving for the United States. Every pubic enterp.ize is paralyzed, and many private enes sumed. Fiven our own efforts to supply the faraters of
 wy wheh they may know what gollig on around them, and be iaburmed of that wath is to their wavantuge and adviaed of the cons-

 we mast sllugete on; lucllug wal be gamed by oltang down in despar. 'lue credil of otem wheh has veen litheathe by whils viluer vile syotems have worked to the sum it Callada, must be
 what ththe money we possessed has been sell out of the country, to pay tur the excessive minorts we have made. ' 'ae carculathig meanam is short, we have weath, but we have hothang to repteent it. The Banks are ol course in difticuity, and can attord ao tedet. In tact lity make the eva woroe, by auding out to thuse who have been an athe habit of geting accommodation, the hope that discounts will be made when there is no ground for 11 , and disappomament is $s$ re. Wo nave already considered the question, as to how tar they tave bear the cause of this crisis. We take the tollowing remaiks upon the remedies to be applied, from an able chy colemporary. Astar as they go we belleve in their etfictency, but there are other remedies that must be sought out, and that betore long:-
"There is no remedy for these evils under which Canada groans, but to metease the export, or dammish the mports from abroad. is the latter is done, the country must relmquish many ot the comtorts of civilized lite, and tall back in the scale of hathons. But what ate the true remedses!
"first,-One object must ioe to produce more from the soll, by eniarging the breadu of arable land, and rating a sultictent surplus to pay for torega moports. But the United States will not take our wheat, althougn we had it, untess a duty of 25 cents a bushel be pad, and this the Canadian wheat grower cannot afford to pay, and yet bear a compention with Uhu and Michigan. Thes restriction must be done away with it posolble, and it is to be hoped that the Canadian Government will urect their serivus attention to get the duty on wheat and other prosuce abohshed. Canadamight buy far more goods from the states it she had the means of paying for them. The trade is at present one of the greatest causes of the internal derangement and ustress of the councry.
"Stcond,-Canada m'st strain every nerve to raise such articles as she has never yet exported to the European market Ithas ofien been shown that as much flax and hemp might be raised and exported with a protit, as would pay for all the tea and sugar she consumes.
"Third,-Canada must manuficture for herself, beginning with articles, the raw materials of which are of her own growih. We are no advocates for making the pubhc pay bounties on certain manufactures by laying heavy taxes on foreign commodities, but in a young country, where advance in population is far more rapid than the increase of her capital, the government may, with perfect propriety offer high premiums for skill and improvemet in the manufactures of the country.
"The-cvils of our insulated state have risen to a great height this year. They will be remedied to some extent temporarily by the small amount of importations this epring. But Canada will never know permanent commercialor monetary prosperity until she has free trade with the United States, and has manufactures in a rising and improving state."

Emigration to Canada.-Lord Stanley having in the House of Lords called the attention of the administration to the Passenger Act of the Canadian Legislature, as oppressive, and calculated to drect the stream of emigration from the British Colony to the United States, Earl Grey sald, he had received a copy of the Bill mentioned by him from Lord Elgin, who stated that it had already passed the House of Assembly, and that meny members wished to make its provisions much more severe. He (Earl Grey) regretted that some of its provisions should have been proposed; they appeared to him calculated to operate very injuriously indeed upon the interests of the colony. He was happy to state that the act was only proposed to last till the end of next year. In answer to his noble friend he could only say, that until the bill had been received in the chape of a law, it was impossible to give her Majesty any advice whatever upon the subject. He, however, intended to send out a despatch to the Governor-General, which he hoped would reach him while the Provincial Parliament was still sitting, recommending that some of the most objectionable clauses of the Lill should be reconsidered. The noble Earl concluded by stating, that he would lay on the table a copy of the bill. On the 28th ultimo, the Royal assent was given by commiseion to the Forth American Pasoengers Bill of the Iinperial Parlament.

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## THE INDIAN'S LAMENT O'ER THE GRAVES OF

 IIIS KINDRED.I come, ye shadows of the dead, To gaze once more upon the lands That once were thine-fur them ye bled! Your bones are bleaching on the sands.
Loiv in the dust, illustrious Chiefs, Ye glorious fell in batle's fray;
Ye cannot feel the aching griefs
That now oppress the Indian's lay.
How can I sing the happy scene, When all to me is bleak and bare?
How can I sing of what has been, And I oppressed with greef and care?
The noble forest is no more, Nor glides the stream a joyous run;
For here, amid the tempest's roar, Powhaten feels he is undone.
'Twas here the wigwnm village stood, And here my infancy was reared;
A chieftain of illustrious blood; My word, six hundred warricrs feared!
But, ah! how changed-the pale-face came, Then fell my brave ennobled band;
Bereft of all-there rests the claimNot mine, a single grain of sand.
Here Soonsectah became my bride, And brought her first-born child to me;
The squaw and papoose, side by side, Now lie beneath the poplar tree.
'Tis all that's left me to descry My kindred's home, my kindred's grave ;
$0!$ may it flourish, never die, And history from oblivion save.
Farewell! for though I visit you, 'Tis but to brood upon the past;
To all Powhaten bids adieu-
His strength and sight are waning fast.
For eighty years press on his heart, He feels life's pilgrimage is done.
The spirit corufort does impart, And bids him seek the setting sun.

Akdeew-Grobb,
Etobicoke, 1848.

## DAYS WITHOUT NIGHTS, AND NIGHTS WITHOUT DAYS.

Dr. Baird, in his lecture at the Conference Room, gave some interesting facts. There is nothing that strikes a stranger more forcibly, if he visits Sweden at the season of the year when the days are the longest, than the absence of night. Dr. B. had no conception of it before his arrival. He arrived ait. Stockholm, from Gottenburgh, 400 miles distance, in the morning, and in the afternoon went to see some friends-had not taken notes of the time-and returned about midnight ; it was as light asitis here half au hour before sundown. You could see distinctly. But all was quiet in the streets; it seemed as if the inhabitants had gone away or were dead. No signs of lifestores closed. The sun in June goes down at Stockholm a little before $100^{\circ}$ clock.-There is a great illumination all night as the sun passes round the earth towards the north pole, and the refraction of its rays is such that you can see to read at midnight. Dr. B. read a letter in the forest near Stockholm, at midnight, without artifical light. There is a mountain at the head of the gulf of Bothna, where an the 21st June, the sun does not go down at all. Travellers go there to see it. A steamboat goes up from Stockholm for the purpose of carrying those who are curious to witness the phenomenon. It only occurs one night; the sun goes down to the horizon, you can see the whole face of it, and in five minutes it begins to rise.
At the Noxth Cape, latitude 72 degrees, the sun does not go down for several weeks, In June it would be about 25 degrees above the horizon at midnight. The way the people there know it is midnight, they see the sun rise. The changes in those high latitudes from summer to winter, are so great, that we can have no conception of them at all. In the winter time the sun disappears, and is not seen for six weeks. Then it comes and shows its faee. Afterwards, it remains ten, fifteen or twenty minutes, and then descends, and finaliy it does not get at all, but makes almost a circle around the heavens. Dr. Baird was asked how they managed in regard to hired persons; and what they consider a day 3 He could not say, but supposed they worked by the hour, and twelve hours would be considered a day's work.
Birds and an:mals take theic accustomed rest.at their usual hours.

The doctor did not know how they learmed the time, but they had, and go to rest whether the sun goes down or not. The, hens take to the trees about seven o'elork, p. m., and sit there until the sun is well up in the morning, and the people get into this habit of late rising, two. The first morning Dr. Baird nvoke in Stuckholm, he was surprised to see the sun shining into his room. He looked at his watch, and found it was only 3 o'elock; the next time he awoke, it was $50^{\text {'clock }}$; but thete were no persons in the street. The people are not in the habit of rising zo soon. The Swedes in the cities are not very industrious, owing probaisly to the climate.-Hartford Times.

## CAFFRE ARMS AND MODE OF FIGHTING.

It is now pretty generally admitted that the Caffres belong to the negro race of mankind, but the characteristic peciliarities of that race, with the exception of the wooly hair, are less strongly matked in them than in the natives of Guinea or Mozambique ; the lips are less thick, the nose less flat, the lower part of the face is not remarkably prominent, and the forchend is often as high and as amply developed as in Europeans. The colour of the skin appeared to me, in most of the individuals I saw, to be n dark amber brown, frequently approaching to black, while in others it had a tinge of yellow or red; but the ekin is so often smeared with red ochre, that it is not' easy to judge accurately of its real native tint. The Caffre men are in general tall, though not gigantic, and extremely well proportioned; indeed, their fine forms and casy attitudes often remind one of ancient statues; but they are more remarknble for netivity than for strength, and, it is said, have generally been found inferior in muscular power to British soldiers. They wear no clothing except the skin cloak or kaross,' and this is worn only as a protection against weather, not with the view of concenling any part of the body. The skins of which these cloaks are made are dressed in such a manner as be as soft and pliable as glope-leather, and acquire a red-brown colour, which is not at all unpleasing to the eye. The Caffres call these cloaks ingubo; karuss is, I believe, a- word borgowed by the Dutch from the Hottentots. Many of the chiefs wear mantles of leopard's skin, prepared with the hairon. They ornament their hair on great occasions with red ochre, which is applied in a very claborate manner, the hair being twisted up into a multitude of liwle separate knots or lumps, and every knot carefully covered over with grease and ochre. Thisprocess, which is-performed by the women, is zaid to be very long and tedious; but the appearance which results from it, though whimsical in-our eyes, is considered by them as highly ornamental. In truth, I do not see that this practice is in any degree more barbarous or irrational than that of covering the hair with white powder, which not long ago was so fachionable in the most civilised parts of Europe. The Caffre women, as I have already mentioned, are inferior in personal appearance to the men, and differ from them, in point of costume, by constantly wearing a cap of dressed leather, shaped a little like a turban, and decorated with beads and brass buttons. Their cloak, which is usually much ormamented with these same articles, is arranged more decently than that of the other sex, being in general wrapt close round them, and covering them from the throat to the ankles; but the unmarried women sometimes fasten it round the waist in the manner of a petticoat, leaving the upper part of the person exposed. All the Caffres at Block Drift, with the exception of their chiefs; were armed with their national weapon, the light spear or javelin, which they themselves call umkonto, but to which the colonists have given the name of assagai. It has a slender shaft, about five feet long, made of the tough and elastic wogd which the Dutch call assagnihuut, and an iron head or blade somewhat like that of a lance, generally without any barb, but sharp at the edge as well as the point. The whole thing is very light, and is but a paltry weapon for warfare against European troops; it can be thrown fifty or sixty yards with effect ; but beyond that distance they have no certainty of aim. Another weapon used by the Amakos is the kirrie or keerie; which is simply a thick stici of a very hard and heavy wood, with a knob at one end : this js likewise used as a missile, and it is said that they enn bring down birds on the wing with it. A considerable number of these people are now provided with firearms; and though, as yet, few are expert in the use of them, there seems to be no reason why the Caffres should not in time become'as skilful marksmen as the North American Indians: They will in that case be truly formidable enemies in the bush. - Runbury's Residence at the Cape of Good Hope.

## THE ROTHSCHILDS:

The following account of the origin and progress of the house of Rothschilds, will be found interesting. It will be recollected that Baron Rothschild, residentin Liondon, has recently been elected Member of Parliament; and a change in the English Constitution being necessary to admit a Jew to Legissative honours and privileges, the necessary amendment was made, and the "dog of a Jew" was placed by the side of the "proud Saxons." Recently, the English were com: pelled to yield the legal restrictions on the issure of the Bipk of England, because the Baron Rothschild threatened to withdraw hifs depo-
reits unlees the Ministry changed the law; and again, the Saxons were compelled to yield to the Jew.
In the year 1740, in a hatle Jewish secticment in Frankfort-on-theMaine, divelt a family of poor, but respectable, Jew pedlars, and in that year they were blessed with a son, whom they called Mnyer Anselm Rothschild. They gave him that education thesr small means would permat, but, died when he was at the age of eleven, left him to his own resources. He then carned a scanty living by writing, which he soon abandoned for a trade. But his ambution was to be a pricet of his religion. Fortunately for tottering dynastucs of the present day, this was not accomplished. His trade required him to travel und after some years he returned to his natuve place, and established a small business. He soon, however, gained considerable notoricty as a collector of old and cunous coins, which brought him much in contact with persons or rank, ainong whom it was fashonable to make such collections; and finally he went to Hanover as a clerk in a large house. Subsequently, with a few years' savings, he returned to Frankfort, married, and commenced a little exchange business. His great ragacity, strict punctuality, and rectitude of conduct, pusi,ed him rapidly forward, and towards the close of the century, the Frnnkfort banking-house had become famous, and the profits large. The banker in the meantime brought up ten children, of whom five sons were "ofter his own heart;" and when he died, he left them his vast wealth and extensive business, with the injunction to dwell in strict and unbroken unity. And the injunction then bestowed has been faithfully carried out. The five sons conducted as many banking-houses at the leading capitals of Europe. They were as follows: the eldest, Anselm, was born in 1773, and was the most substanial citizen of Frankfort; and, representing the father, was the head of the whole operauons of the house. The second, Solomon, born in 1774, became a citizen of Vienna, where he is held in high estimation as a man, as well as a member of the most stupendous banking house in the world. The fourth son, Charles, was born in 1788, and has since i82b, conducted the house of Naples, where his popularity is equal to any of his brothers. The youngest son, Jacob, was born in 1792, and is the banker for Paris, where he maintains a splendor that eclipses most of the princes of Europe. The third son we have yet to mention, Nathan, who was born in 1777, and became the head of the London house in 1798, and was in every intellectual respect a giant. It was observed of him, that should he share in the chase, it could only be to hunt elephants.
These five houses, combining all the Snancial resources of Europe in their movements, which are always simultanfous, have exercised for fifty years a power unseen, but overwhelming. Nearly all the government debts of Europe are of their contrecting. Through the wars of Bonaparte their information was always correct, and alnays in advance of the British government, which was often a dependant upon them for information, as well as means of action. Although their residences were always widely separats ${ }^{2}$, each controlling all means of information, no important transaction was entered into without consultation and strict harmony of opinion among them all. Commercial exchanges and all movements of businees were often known to, and controlled by, the old Jew in Frankford, who could in the exercise of his great power look with contempt upon feeble despots crying to him for help; and the nid asked dependent on the assent of the five brothers. Accordingly they were courted in every possible way. In 1813, they were made private commercial. councillors of the Hessian goverament ; also to the Austrian Emperor, who conferred on them the rank of Barans. In 1836, Nathan died, leaving his wealth and seven children, of whom four were sons. The eldest, Lionel, who had been made Knight of Isabella by the Catholics at Madrid, and who is a Baron of Austria, in right of his father, appeared, in 1836, on the London Change, in the place his father had occupied for thirty-eight years. This gentleman it is who has become a Member of Parliament at the expence of a change in the English Constitution.
The House combined has loaned the King of the French the money necessary, to keep him on the throne a few years longer. It is manifest that as this house has grown up with government debts, the continuence of this power is in some degree dependant upon existing government. A branch of the house has been establishitd in New York, conducted by Auguste Belmont, a r 'ative of Solomon Finthschild, of Vienna. Republican free trade, however, is not the soil on which the stupendous business of the great loan contractor will best flourish.

A Wibe Baidie-In a recent case of summons for nonpayment of wages, before a Scotch bailie (alderman), the defence was that the claimant had by her negligence suffered a favourite squirrel belonging to the defendant to escape. The worthy magistrate replied that the defence would not do, as the lady "should hae clipped the wings o' the creature, squirrel as ye ca' it, and then it could na' have made its escape." The astonished defendant replied that the animal was a quadruped ; but the sapient bailie rejoined, "quadruped here or quaduped there, you should hae e'en clipped the wings o't,"-and ordered the wages to be paid to the claimant.

Tae True Philosopaer.-" What do you mean to do with K.?" said a friend to Theodore Hook, alluding to a man who has grossly vilified him. "Do with him?" replied Hook, " why, I mean to let him alone most bevercly."

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## TOCORRESPONDENTS.

W E. W, Brantford. Yuur order has been attrnicl to Mr E. has written in reply.
S C., Braatford. Received, and pmpers sent
D. K. C , (ilandford. When you again write so impert:rent and senseless a letter to the publisher of a newspaper, it woud be as well to give your name Yousay you have been in the habit ot reading our paper We don't find your name, or rath'r your initials on our last, and it may be that you have appropnated someone else'a paper. So far as you charge us with sending our paper to unpaid subscribers regularly, and not sending it as all to those who have paid, we say the charge is false. The persons mentioned as having paid for the Agriculturtst, we know nothing about. A. Gillespie was a subscriber io the Cultivator for 1847. In several cases of this kind we have sent the pape-, upen the atatement of the party writug, and have been informec by our agent that the person was a subscriber of last year. We have sent the papers in this instance, and shall write to our ngent to see if it bean omission of his-it not we shall stop them. And hereafter, when we have reason to believe, from the agent's name not being stated, or the writer using his initals only, and abusive language, we will write to our agent first. With the exception of one or two mistakes, we have had no proof that any of our authorised agents have been acting dishonestly towards subscribers. Those who are not authorised we are not accountable for.
A. M., Port Robinson. We are obliged to you for the compliment with which your letter closes. The name you mention is on our list, and has been from the commencement. The only difference was, that it was entered Leo. S. instead of Jno. S. It could not have been omitted every issue by our clerk. You had better look in your own office for the missing numbers. As to the irregularity you speak of we can give no explanation further than this, that "Port Robinson" is entered in our Westcin Mail Book instead ot the Southern, which is a mistake of course, but this should not make a delay of more than one day. We have had the list transferred to the proper book, and beg to say to those people whom you represent as so much dissatisfied,--that we. have always (except the last number,) put our paper to press two days before publication day, and immediately commenced mailing; that it takes four days to print the number required to send off; that they can't be mailed before they are printed; that therefore some subscribers must wait a day or two longer than would otherwise be necessary; that the paper is only semimonthly, and not filled with mere news-matter that can't be read when it gets cold; and lastly, as we are giving about onethird more matter than we can afford for the money, and instead of making, are every day losing by the enterprise, with but slight hope of improvement, we think reasonable people will be disposed to complain, if they complain at all, in a more cival strain than you have done.

Engravings.-Our wood engraver has been absent from town during the last month, which has prevented us from giving illustrations in the last two or three numbers. We have not met with s.ly subject of immediate importance that appeared to us to require an engraving, and have not therefore had much occasion to regret his absence.

Crors.-We are happy to state that the crops in this District look excellent; we have not heard a single complaint, and the farmers are unanimous in saying that they never had a more cheering prospect before them.-Peterboro Despatch.

General Lewis Cass, of Michigan, has been nominated by the Democratic National Convention, held at Baltimore, for President; and General W. O. Butler, of Kentucky, now commanding the army in Mexico, as Vice-Presdent.

Wo believe that Dr. La Terriere, M. P. P., is to be the Deputy Adjutant General for Canada East.

The Territory of Wisconsin has been admitted into the Confederation of the United States, as a Sovareign State.

BLESSINGS IN DISGUISE.
by blancie bennairne.
A thousand r -sings in disguise About " our daily paths" are strewn And though unseen by mortal eyes, Yet none the less are they our own. We weep a beauteous spirit flown, Its body mouldering in the earth; While it, near a celestial throne, Has joys of heavenly birth.
A thousand b!essings in disguise From infancy our lives have blest; Yet, while we saw the clouded skies, We thought not of the promised rest;
Though pictured in the purpled west, Like radant clouds at close of day, Bright Hope appeared in beauty_drest, To glad our future way.
A thousand blessings in disguise
Within our home's bright hemisphere,
In His wise providence arise, While we lament that they appear.
We mourn for those beloved and near
When we are called to bid adieu,
We weep for them a bitter tear,
While they have heaven in view.
A thousand blessings in disguise
Attend oar way through manhood's prime,
And few there ure, who, truly wise, Improve them in this golden time.
We dream of fairer, brighter climes,
Where only beauteous flowers are found,
Nor hear the sweet and pleasing chime
From Truth's delightfal ground.

## A thousand blessings in disguise

Surround us while we mourniul stand,
And breathe despair in heart-felt sighs,
At loss of hopes that rose so grand.
We think of:friends with open hand,
Who greeted us when Fortune smiled,
Nor she that brighter hopes expand
While thus from them exiled.
A. thousand blessings in disguise

On us are showered-on you and me, And hope before us ever lies, Though we her form may fail to see. Then, if in deep despair we be,
Though all seems dark, let's look above,
And to the Blest One ever flee,
Where all is light and love.

Kind Words dC sot Cost Moca.-They never blister the tongue or lips. And we have never heard of any mental trouble arising from this quarter. Though they do not cost much, yet they accomplish much. 1. They help one's own good nature and good will. Soft words soften our own scal. Angry words are fuel to the flame of wrath, and make it blaze more fiercely. 2. Kind words make other people good-natured. Cold words freeze prople, and hot words scorch them, and bitter words make them bitter, and wrathful words make them wrathful. There is suck a rush of all other kinds of words in our days, that it seems desirable to give kind words chance among them. There are vain words, and idle words, and hasty words, and epiteful words, and silly words, and empty words, and profane words, and boisterous words, and warlike words. Kind words also produce veir own image on men's souls. And a beautiful image it is. They soothe, and quiet, and comfort the heart. They shame him out of his sour, morose, unkind feelings. We have not yet begun to use kind words in such abundance as they ought to be used-Pascal.
Dress For tas Mivd.-On Sunday morping, before going to church, what a dressing there is among all elasses, and what a stir to appcar gay and pleasing! Is it quite sufficient for the great purpose of our cxistence, to wash the out side of the platter 3 . Curis may be arranged, fine tortoise shell combs fixed, sparkling ear-rings hung, splendid garments displayed, and yct, perhaps, the gay fair one's mind may be poisoned with conceit, and troubled with rivalry, and kept on the torture by ignorance and vanity. Vindsor soap does not wash out the stains of the heart. Cologne water cannot throw a fragrance over an impure mind; nor will the rubies of Golconda dezzle the recording angle into fo-getfulness of filling up the leares of the book of retrifir-tion.-Es.

## ON THE CARE OF PARLORS.

In selecting the furniture for-parlors, some reference should be had to correspondence of shades and colors. Curtains should be darker than the walls; and, if the walls and carpe-s be light, the chairs should be dark, and vice versa. Pictures look best on light walls.
In selecting carpets, for rooms much used, it is poor economy to buy cheap unes $I_{u s}$ rain carpets, of close texture, and the three ply carpets, are best for common use. Drussels carp'ts do not wear so long. as the three-ply ones, because they cannot be turned. Wilton carpets wear badly, and Tenetians are good only for halls and stairs.
In selecting colours, avoid those in which there are any black threads, as they are always rotten. The most tisteful carpets are those which are made of various shades of the same colour, or of all shades of only two co'ours, sich as brown and yellow, or blue and buff, or salmon and green, or all shades of green, or of brown. All very dark shades should be brown or green, but not black.
In laying down carpets, it is a very bad practice to put straw under them, as this makes them wear out in spots. Straw matting, laid under carpets, makes them last much longer; as it is smooth and even, and the dust sifts through it. In buying carpets, always get a few yards over, to allow for waste in matching figures. In cutting carpets, make them a few inches shorter than the room, to allow for stretching. Begin to cut in the middle of a figure, and it will usually match better. Many carpetr. match in two different ways, and cars must be taken to get the right one. Sew a carpet on the wrong side, with double waxed thread, and with the ball-stitch. Thisis done by taking a stitch on the breadth next your, pointing the needle towards you, and then taking a stitch on the other breadth, pointing the neew dle from you. Draw the thread-tightly, but not so as to pucker. In fitting a breadth to the hearth, eut slits in the right place, and turm the piece under. Bind the whole of the carpet with carpet binding, and nait it with tacks, having bits of leather under the heads. To stretch the carpet, use a carpet fork, which is a long stich, ending with notched tin, like eaw tecth. This is put in the edge of tie carpet, and pushed by one person, while the nail is driven by another.Cover blocks or bricks with carpeting like that of the room, and put them behind tables, doors, sofas, \&c., to preserve the walls from injury, by knocking, or by the dusting-cloth.
Cheap footstools, made of a equare plank, covered with tow-cloth, stuffed, and then covered with carpeting, with worsted handles, look very well. Sweep carpets as seldom as possible, as it wears them out. To shake them often is good ecrnomy. In cleaning carpets, use damp tea-leaves, or wet Indinn meal, throwing it about, and subbing it over with the broom. The. latter is very good for cleansing carpets made dingy by coal-dust. In brushing carpets in ordiziary use, it will be found very convenient to use a large flat dust-pan, winh e perpendicular handle a yard high, so that the pen will stand alone. This can be carried about, and used without stooping, brushing dust into it with a common broom. The pan must be'verylarge, orit wili be upset.
When carpets are takeniup, they should be hung on a line, or laid on long grass, and whipped, first on one side, and then on the other, with pliant whips.' If laid aside, they should be sewed up tight, in linen, having snuff or tobacco put along all the crevices where-moths could enter. Shaking pepper from a pepper-box, round the edge of the floor, under a carpet, prevents the access of moths.
Carpets can be best washed on the floor, thus: First, ehake them, and then, after cleaning the floor, stretch and nail them upon it.Then scrub them in cold soap-suas, having half a tea-cuppinl of os gall to a bucket of water. Set open the doors and windows for two days or more. Imperial Brussels, Veaetian ingrain, and three-ply carpets, can be wached thus; but Wilton, and other plush-carpets, cannot. Before washing them, take out krease, with a pabte made of potter's clay, ox-gall and water.-Miss Beccher.
Flowers.-" How much flowers resemble the young heart, in its. bright morning, ere it has stained the plumage of ita sinless years. Tradition of them tells us that they were once like youth-even in: ahis -that they loved, and talked, and had passion'like ours. Whether the golden age of flowers has passed or not, they are still jnvested with these susceptibilities in song. How often, and how fondly the poet revels inthe field of flowers. Do they not tall to him ?. Who has ever heard the soft, low whispers of the green leaves and bright flowers on a spring morning, wino did not feel rainbow gleanis of gladness running through his heart? Like beauty in the humaniform. flowers hint and foreshow relations of transcendant delicacy and sweetness, and point to the beautiful and unattainable. From the garden favorite to the dainty wild flower of the mountain, all have a cham incxpressible, beauty unapproachable, leading the way, and wooing the spirit onward and npward. How sweetly and jnstruetively the flowe. bows its hend to the breath of night, or the ruda storm. At morning it jields its.fraprant orison; borne to hearenon the soft wings of the dew-drop.-Thus the heart learns to bing a holier offering to the shrine of all good."
To take ine out of Limen.-Take a piece of mould cañdle, or common candle will do nearly :as well, melt it, and dip the shotreth part of the linen into the melted tallow. It may then ibe washed, and the spots will dizappzar, without injuring the linen.-Ohio Cull:

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## LORD ROSSECS TEIESCOPE

At the mecting of the Dubiin Royal Academy, on March 17, Dr. Robinson gave an account of the present condmon of Lord Rosse's telescope. Dr. Rubinson found that the speculam (whose figume, as he had formerly stated, was not quite perfect,) as well as a dupheate one, had been polsthed by the workmen; and as he apprebended no difficulty in the process, it was repeated. An uneapected dificuly, however, occured, which made much delay, ull Lord Rosee discovered the cause. 'The success of the operation requares that it be peiformed at the temperature of 55 degrees. In winter this must be obtained by arificial heat-which, however, increases the dryness of the ar, so that the polishing material cannot be kept on the speculum. In this case the surface is untrue, and gives a confused image. Ths was rerified by the hygrometer, and remedied by a jet of steam so legulated as to keep the air salurated whin mosture. The result was inmediate; and at the first trial the speculum acted so well that it was annecessary to try any farther experments. Three additions had been made to the telescope:-1. The movement in right ascension is given from the ground by machinety intended to be connected with a clock movement which is in progress. 2. To obviate the difficulty of finding objects, an eye-piece of large field ano peculiar construction is connected with a shde, so that it can be replaced by the usual one in an instant. It magnifies 208 times, and employs nearly four feet of the speculum, the same as Heischel's 40 -feet; thus giving the power of trying what that instrument might show. 3. 'The micrometer is peculiar-a plate of parallel glass, with a position circle attached. Light admuted at its edge cannot escape at the parallel surfaces, except they be scattered, and ascale of equal parts engraved on one of them with a damond-luminous in a field absolutely black. The exceedingly unfavomable state of the weather subsequendy preventing much trom being done ; in fact, there wasbut one good night, the llih ult. In the moon he observed the large flat bottom of the crater covered with fragments, and satisfied himself that one of the bright stripes, which have been often discussed, had no visible elevation above the general surface. In the belts ot Jupiter, streaks like those of Pyrrhus's clovd were seen; and the fading of their brown colour towards the edge is evidence that they are seen through a considerable and imperfectly transparent atmosphere. A simular shade in the polar regions, wheie little cloud is to be expected, seems to indicate that the brighter bonds are cloudy regions, and the mote dusky show the body of the planet. Several nebulæ were txammed-and, as formerly, all were iesolved. That of Onon is most rematkable. Even before the mirror was perfect, and in bad nigits, that part of it which prevents the strange tiocculent appearance described by Sir John Hersehel is seen to be composed of stars, with the lowest power, 360. But Dr. Robinson's eye required 830 to bring out the smallest stars, amongst which these are scattered. Haviog seen them, anc known the easiest parts, they were seen with the 3 -leet an. ${ }^{3} 500$. Dr. Robinson having seen a recent notice in which thes nebulas is said to have been resolved by the observers of Harvard University, U. S., with a Munich achromatic of from 15 to 16 incises' aperture. He has often seen it with Mr. Cooper's of 13.5, a 1nfference eisily to be allowed fo:, but never saw any trace of resolution. He does not in the least dispute the observation; for a precise knowledse of the place (which Dr. Nichol had mentioned) whth a purer atmosphe re and sharper eyce than his are sufficient to account for it ; but he cannot refran from remarking, that the epthet "incomparble," which tuey apply to their telescope, would be less extravagant if-in addition to the two etars of the trapezium which were discovered by the telescopes of Dorpat and Kensington-they had seen the other iwo which the 6feet showed at the first glance, after ins polish was completed. Another interesting object is the planetary nebulæ, h. 464 , situated in the splendid cluster, Massier, 46, and probably a part of it. It is a disc of small stars uniformly distrbuted and surrounded by the larger. Messier, 64, is a singular modification, of the annular form seen obliquely. The opening seems black as ink, and as its margin is one of those interior clusters of bright surs so often noticed beiore. But the most remarkable nebular arrangement which this inctrument has revealed, is that where the stars are grouped in spirals. Lord Rosse described one of them (Messict, 5i) in the year 1845 ; and Dr. Robinson found four others on the IIth, of which he exhibited drawings, h. 604 (seen by Herschel as a bi-ceniral nebula,) Messier, 39, in which the centre is a cluster of surs. Messier, 97, loo': 9 with the finding eye-picce hike a figure of eight; but the higher powers show etar spirals related to two centres, appearing like stars with dark spaces round them-though probably high powers in a fine night would prove them to be clusters. Another fact deserves to be noted, from its bearing on Struve's "Eutedes d'Astronomie S.ellaire.". In that admirable book, among other curious matters, he infers that the 18-inch telescope of Herschel penerrated into space only one-third-of what was due to its optical power. He esplans this by supposing the heaventy spaces imperfectly transparent. In compuing the limit, however, he assumes that the Milizy Way is in its greatess extent " unfathomable by tic telescope.' "Dr." Röbinison, however chanced to itspave it whin it is deppest at 6-1, andia rertain that its temoteot
siars were very far indeed whmo the limit of the 6-fect, and very much langer than those of the nebua of Orion.-Athencum.

## AN IMPOPTANT INVENTION.

There's nothing of ualitatian cast that is above the aim, bryond the reach, or beneath the totice of a Yuakee. Franhlin was the modividual type of the race. equally at home in bringing down the lightning fiom the clouds or applying his diecoveries mair, light and electricaty to the safety of duelling or to the construction of a new stove or to the remedying a tmoking chimney. If of practical use, all wero of equal imporance on has eyes

Drcmmond-who has not heard of the Drammond light-is a man of this cact. He has insented and patented the candlesticks of the age-A candlestick, which not only holds the hight but makes its own curdles!
The tallow chandler has become an obeolete man-his light and glory departe -ins occupation gone.
I shall describe thas invention as closely as necessary brevity will permit. The base of the candlestick fonns a chamber. A screw passes its enture length, wheh being tubular carrics the wick, as fast as needed from its coil below. Melted grease, lard or tallow is poured into the lower chamber of this candlestick, whence, ufter it cools, it is forced by the action of the screw upon an iron washer or wallower whose Upper side is coated with leather to render it air tight, into the upper tube which becomes a monld, turning ont a candle as hard and smooth as can be made in any other mode, and of any desired length from an inch to two feet.

It will be percerved that the ingenuity of this contrivance is surpassed only by its simplicity. The wonder of the beholder is that an article so efficient, convement and necessary, has not been invented long since.

Among its various advantages, the following are apparent at a glance:

1. Its simplicity, as well as ts strength will keep it in order and iepair for years. It must outlast any candlestick on the old principie.
2. There is no waste of remnants, he grease, lard or tallow consuming to the last particle.
3. As the candle can be made of moderate length there is no necessity of its running down by faring and wasting in a current of air or breaking down on one side, as is always the case with long candles uaring the summer season.
4. 'ihe wick is dry and smooth, and burns therefore wins a clearer light.
5. The candlestick needs filling with grease, \&c. but once a Feek, and with wick but once in six weeks.
6. It can be kept perfectly free from grease outside, as jts construcien manifests
7. I he farmer can use lard-always on hand at a farm-and of a quality which he cannot sell to advantage. Lard burned in lamps is dearer than lard oul in the same degree that it is cheaper when compressed into candles. This every one knows who has tried it.
8. The paramount advantage of this candlestick is that the light can always be kept near the object to be seen; the candle being it desired, always of the same length. This is a benefit every student can appreciate as of incalculable value.

What the demand for this candlestick is likely to become, may, be inferred from the fact that the demand for the article is three thousand candlesticks ahead of the suppiy, although one of the largest manufactories in Cincinnati is steadnly employed in turning them out.Cist's Daily Ad.

Fali of Meteor Dest.-Accounts from Vienna describe some remarkable phenomena of this sort, which occorred during the nigh: of the 3lst ot January, and covered the snows near the city and the greater part of Lower Austria with a layer of grey, earthy, impalpable powder, blown thither by a sharp east wind of continuance. When the dust fell the $u$ ind ceased and the temperature rose. Professor Reissck, Dr. Wedl, and other scientific persons, have carefully analysed this substance, the chief portions of which consist of granules of quartz, particles of mica, humus, organic remains, and some fragments of wood coal, piants, insects, and infusoria. The air thus laden is held to have been derived fiom the steppes of Russin, and to have passed over the Carpathan chain. The learned piofessor maintains this view, by comparing the circumstance with the falls of manas which occur periodically in Asia Minor, Persia, and the Caucasus.Literary Gazette.

The Larict remeks on the use of ether and ehloroform: "Anesthetic substances, besides being usfful in dmminishing the sbock of operations and subsequent reaction, operate beneficial by rendering the after exhibition of opiates unnecessary."

Wheel Gaehse.-Two parts hog's lard by bulk, and one each of black-lcad and wheat. ilour. Waggons may be heard a mile off ont still morning, utcring the most dismal sounds, from the want of: litule of this material, and which a verylitile imggination might trefs-


## NEWS FROM EUROPE.

The Fiench Chambers met on the 4 th instant. All paesed off eatsefacioniy. Muadiy, a nom Deputy, tuuts the chair. Feare are cater tamed of toubic from the defeated Radicals. 34 delceaces fiom the deparunents of the Seme, 20 are mulerates, and 4 Chira Demosiats. Thers was defoated. The chchuns passed uff quiecly. Lamarticie is to be first Preadent of the Fiench Republic.

The Independuat de L'Oust duchased Duhe de Burdeaux Ki."g a: Rouen. Barricades were erected. The troops came in colision with the people; but the number of killed and wounded is not very great
At Limoges the insurgents hold possession. Provisional Government about to send troops to attack the town.
A Plot was discovered to blow up the Hotel de Ville in Paris.
French Government about to dispatch Count Appony to Vienna to promote the pacification of Italy.

No outbreak in Spain, except that of Valencia, which was suppressed. The Cabinet at Madrid appear better disposed toward Great Britain. Lisbon tranquil.

The formaton of a Natunal Guard is taking place throughout England. Sir W. Somerville introduced a resosution in Parliament extending Irsh suffrage. Crops in England look well. Money market in London mproving. Greater confideace prevails. More acuvity in trade.

French funds were improving. Trade siowly improving on the Continent.
Russia, Sweden, and Denmark, have formed a treaty offensive and defensive.
A conspiracy has been discovered and suppressed at Warsaw, among Russian soldiers.
The Danes are retreating from Holstein. All is quiet at Vienna. At Pesth, in Mungary, there has been a serious riot.
An anncabie settiement between Austria and Italy is said to be in prospect.

No serious battles in Italy, but in several skirmishes the Austrians have gained advantage. Repults are current that the army of the Alps have entered Savoy, to aid in defence of Itahan independence against Austria. The Constitution denies any truth in the report that France is abuat to deciare war against Austria. Later accounts state that K.n: Chatles Aibert had gune to athack the Austrians in thear eatreached camp at Velura, and was within a league and a half on the 28th.

At Posen the Guerilla war continues to be waged in a fearfully bloody manner.

The German constituent Assembly met at Frankfort on the 18th.
In Poland excesses continue to occur, and bloody engagements have taken place between Landwichs and the miltary. Atacks on the lives and pruperty of the Jews and Geanans are the urder of the day.

In Galicia, Moldavia and Wallachia the people are in insurrection.
At Presiurgia die crosluies against the Jews arp shocking.
In Baden the Republicuns have attempted to revenge their late defeats.
Hecktor passed the: Rhine at the head of 1000 French and German troops. Two engagements took place between the Wirtemberg forces. the marauders left have now fled into Alsace and Switzeriand, having been dispussissed and disarmed in virtue of the late decrec of the French Government.
Belgium tranqui.
Hanuter and Psussia absorved in mätary operations against Denmark, in which at preseat they are compliticis successfui. Capture at sea by the Danes aust occasion gieat luss to the Prussian commerce in the Baltic.

## conmercial news.

There has been more acuvity in the several departments of trade and commerce duing the past week. The retums of the elections $n$ France and the general tenor of our advices from all other parts of the Earopean continent, lead to the agreeabic hope thet the polutucal ferment which has distracted the seteral kinguoms and states therem, will now quictiy setile down, and were it not that a general war may, ere long, burst furth, and involve England, France, Germany, Prussa and Austria against each other, there would, we are confident, have been visible effects of a stall greater mprovement. There is yet an abundance of money and bank accommodation can still be had on moderate terms. The colonial produce markets are rather buoyant, and sugar has obtained an adyance on last weck's quotations.
The corn markets throughout the three kingdoms, influenced by the state of the weather, and the encouraging prospects of the crops,
were less active this week, and prices have receded. The accounts from the manufacturing districts in Lancashire, Yorkshire, \&c., are still.improviag. More business is doing; in manufaciared geods; but we can not note any advance worthy of nolice in the prices current. The merkot for English and foreign securities was in a satiffactory position during the past week, and the value of moet descriptions has expericuced a further adrance.

The wrather hes set in delightfully fine, and is now everything that can be expected or wished for. The young crops are shooting forth with the most jromenig appearances, nod ererying betokens a rich, huzuriant, and seasonablo haviait. These che timisices hitio had a relling effet opon the com maratets throughout the three kingroms
during the week. We hear nothing yet of the old cry of "failure in the potatoe crop ;" but from all we leain, the yield of potatoes thy year will be like that of wheat and other grain-very pruductive. A1 Mark-lane, on Monday, English wheat sold at a decline of 1s. to 2s. per quarter, wihuut leading so a clearance of the stands; the bestold white did nut briag mure than 49s. to 58s. per quarter, while the best red sold at 46 s .1055 s ., Canadian Flour sold at 22 s . to 26 s . per bar, rel, and United States 229 . to 27 s . which rates are aboot our last 940 tations, but at these prices the transactions are limited.-Europeain
Times, May 6 . Times, May 6.

## ARRIVAL OF THE HIBERNIA. <br> SEVEN DAYS LatER fROM GUROPE.

The Steamer Hibernia arrived at.New York on Saturday the 27in inst., at 2 P. M.

Flour.-26s. a 27.
Coan -26s a 27 s . for white, 28s. a 29s. for ýcllow. Meal, 11s. 6 d . a 12s. 3d.; demand moderate.

Corron down $\frac{1}{8}$. Money market, heajy.
Brown's Circular says the market for Breadstuffs remains withourt material change, and though in parts of the Corn Market Wheat has declined, yet Indian Corn is again in betcer demand, and selling freely at 26s. a 28s. Meal is 129. 3d. Fresh American Flour isscarce, and the quotations are 27s. a 27s. 64.; Sour 24s. a 25 s . The duty 7s. on Wheat, 4s. 21 $\frac{1}{2}$. on Flour.
france.
In France the following government ad interim has been appointed by a Committee of the National Assembly:-

Foreign Affairs, Bustide; War, Chase ; Finance, Druclere ; Justice, Cremiuex; Instruction, Carnot, Commerce, Flocon; Relıgrons Bethmont; Public Wrass, Trelat; Marine, Cazy; Interior, Recusat; Under Secretary of Foreign affairs, Fabre.

The German Legion is returning in scattered bands into France. It is said that the total separation of Church and State will be one of the first measures adopted by the National Assembly.

An official order has been announced to pat the whole line of coast in the District of Boulogne in a state of defence, and fortify the town. It was reported in Paris that Ledru. Rollin has tendered his resigas. tion.

Order has not yet been restored in the Provinces.
italy.
The Pope has been compelled to decl..re war against Austna, ireland.
Nothing very starling from Ireland. Messrs. Duffy and Meagher continuing their appeals to the people to arm, and are joined by some, of the Roman Catholic priests.

The potatoe crop is believed to be very abundant.- A blight has: appeared on only a few very limited places.

The name of $\mathrm{Mr}_{5}$. W. S. O'Brien has been struck off the roll of the magistracy in the county of Limerick.

Grosse Isle Intelligence.-The passengers of the Jessy were reembarked yesterday, after purifying, and it swas expected she would leave the station to-day.

The brig Goverrer, Hugill, from Limerick on the 14 th April, arrived at Quarantine on Monday last, the 15th. She had one cabinand 174 stcerage passengers, 10 sick, and 18 deaths on the voyage. Oi the 10 who were sent to hospital, one died the night oeforelast. The Jcssy and the Governor were the only two vessels not discharged from Quarantine yesterday.

The bark Envoy, Patton, from Londonderry, on the 101h April, anived at Grosse Isle on the 14th inst. She had one cabin and 214 steernge passengers-onc death on the voyage. She hassince arrived in port The Ayrshire, aground on her way up, had 214 passengers 3 deaths on the voyage, and only one sick when she arrived. Tho Schr Eliza Ann from Kilrush, likewise on her way up, had 5 cabjn and 93 ateerage passengers-one death on the voyage, and one sick on reaching Grosse Isle. - Quebcc Chroninle.

EOME MLAREETS.
The following table gives the highest average prices at each of the three places:-

Toronto, May 31. Hamilton May 31. Montreal May29. Flour, per barrel Wheat, per bushicl Barley, per 48 lbs. Rye, per 56 lbs.
Oats, per 34 lbs. ......
Peas, per 60 lbs. ......
Oatmeal, per barrel ... Potatoces, per büshel.
Hey, per toa
Beef, per 100 lbs....
Porl, per $100 \mathrm{Ibs} .$.
Zand, pry Ib............
Butter (fiesh) per io.

| 81 | 1 |
| :--- | :--- |
| 0 | 4 |
| 0 | 2 |
| 0 |  |
| 0 |  |
| 0 |  |
| 1 | 0 |
| 0 | 1 |
| 2 | 1 |
| 1 | 1 |
| 1 |  |
| 0 |  |

3
6
7
0
9
9
0
6
0
6
6
4
10

| 51 |  |
| :--- | :--- |
| 0 |  |
| 0 |  |
| 0 |  |
| 0 |  |
| 0 |  |
| 0 | 1 |
| 0 |  |
| 1 | 1 |
| 0.1 |  |
| 01 |  |
| 0 | 1 |
| 0 |  |

