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#  AND CANADIAN JOURNAL. 


Wa. McDovgase, Enton and Proprizior.

## VOL. I.

## TORONTO, AUGUST 15, 1848.

Ñ. 12.
 found on the 137th paige; frome a respectable farmer in the Western District, giving drawings and a description of an lmproved Bars. Our engraver having teturned, we procured cuts representing the ground plan and the side elevation. The end view we did not thank necessary to be given. He also sent us a drawing of $a$ mode of fastening cattle in their stalls, at once, simple, cheap and convenient. The cut explaining it will apgear in our next number.

We may remarts that Mr. Paton's plan of arranging his barn for stock, \&c., is very similar to one which we described in the Canada Farmer, beionging to Mr . Allen, the distinguished American breeder, on Garden Island. The chief diffference is this: in Mr. Allen's bara, the cattle, instead of being in the body of the barn, were stabled in leanto's along each side. This allowed room for bays on each side of the main floor, and between it and the cattle's heads. The stalls, passages, \&c.. were precisely similar to the present. We refer the reader to Mr. Paton's letter fur a fuller descigution of has play, as well as fur some very ot uibible remarhs. We hope, since he has bruken the ice, that Mr. P. will facur us again.


## Explanation or Fig 1.

A. Driving floor tor waggor.

B B. Doors to enter driving floor.
CC. Dioors for cows to enter, also for cleaning out the soll ; they are 3 feet wide, so that a yoke of oxen may be driven in with the yoke on them.
D D. Two side doors for accommodation, eithor for cows or those that attend them.
E. Door leading to the dairy:

EFFF, and the spaces bitween, are stalls for 46 cows, each division holding two cows, being 7 feet wide:
G G. Feeding troughs for cows.
H H. Gutters for soil:,
I I. Passages.
K K. Passages leading towarrùs the dairy،
L. Tank to hold liquid mannute.


Explignation of Fic. 2.
D. The same door as shown at $D \mathrm{D}$, fig. 1.

E E E E. Four ventilators, which might be made with slots like Venetiatt blinds; sliding horizontally, they are intended for both sides of the building.
FFF. Ventilators in the apex,

Tíe Ber..-Providence, that delights in spreading benificence as well as beauty over all creation, has wisely formed the bee as an humble but active and untiring agent, in gathering up for the most important purposes, and converting to the most valuable use, the scraps and fragments of nature which would otherwise be scattered by the " viewless winds," and spread through the "rambient air." She has adorned the song of the poet, po rited the fale of the moralist, and furnished food to the hungry in the desert. Virgil calls the bee a ray of divinity ; Platarch pronounced her a magazine of virtues; Quintilian asserts that she is the greatest of geometricians; and Watts, by calling in poetry to the aid of morality, has rendered her figure the means of interest, improvement, and delight to many a youthful mind. Philosophy has stooped to examine her habits and to watch over her haunts; she has presented the models of science and called forth the attention of scientific men; by her the hushandman is cheered when sitting in his cottage garden, in his evening reflections on his day of toil; and in whatever light she may be viewed, there is none who can declare that he has no interest in her ways.

# Agritultuxist and $\mathfrak{G a n a d i a n ~ T o u m a l . ~}$ 

 TORONTO, AUGUST 15, 1848.
## NOTICE TO THE PUUBLIC.

THE Suhscribers, Rea ? 2rs and Agente of the AGRICULTURIST, and all others whom it may concern, aee hereby notifird that the Partnership existing between William G. Edmundson and the Subscriber, in the publication of the soid paper, 18 dissolved, in conseguence otwhe sale by the Sheriff, on the 3rd inst., of the interest of the said W. G. Edmundson therein. All monies due on account of the paper, or for advertisements, must be paid to the Subscriber, and all businesa matters connected therewith can be arranged wi'h him only.

Toronto, Aug. 4, 1848.
WM. MeDOUGAILL.

From the above announcement our readers will be ab'e to underotand more fully the cause of some of our difficulties. It is obviously impossible to carry on a partnership business when one of the partners is in such circumstances that he can nether furnish means nor obtain credit, and especially when the receipts of that business do not equal the expenditure. This has been the case with the Agriculturist, as was explained in our last number. The writer has no desire to say a word to injure either the character or the feelings of his late pariner, but there are facts which are necessary to be stated, in order that he may put himself and the paper right with the public.

In the month of January, 1847, the writer was induced to join with a young friend connected with the press, in the publication of a semimonthly paper called the Canada Farmer. Our object was to make it something more than a mere Journal of Agriculture-to take up sind discuss certain questions connected closely with the inierests of the agracultural cless, yet not coming within the range of a purely agricultural paper. We fixed the price at $7 \mathrm{~s} . \cdot 6 \mathrm{~d}$., which, compared with the expense and with the price-of other papers, was considered cheap enough. Mr. Edmundsan was then publishing the Cultivator, and, ats the readers of both papers will recollect. a fealing of rivalry soon displased itself; increased efforts were made on his part to push the Cultivator into circulation, and as we found them operating 10 our disadvantage, we were induced 10 lower the price of the Farmer to that of the Cultivator, and to allow the eame commission to agents, trusting to a large circulation to male up the expense and loss which would thereby be sustained. The enterprize succeeded as well as we could expect under the circumstances; it was late in the season before we sent out regular travelling agents, and yet our circulation in December had reached 20\%0. After the last number of the first volume of the Farmer was issued, Mr. Edmundson called upen the writer and requested him 10 purchase the interest of his partner in the Cu.tivator, and join the two papers in one. After some hesitation and delay in settling the terms, upon b-ing assured that the circulation of the Cultivator equalled 7000, we closed the purchase, and sent the first_number to press. The agreement was, that the writer should manage the editorial department, with such assistance from Mir. E. as he could give, and that business matters, (except receiving and disbursing money,) corresponding with agents, mailing, \&c. \&c., should be transacted by Mr. Edmundson. During the issue of the first five numbers the witer could hardly get a sight of his new parmer, and consequently had all the labor of getting out the paper, except the mai'ing, thrown upon his shoulders; and even up to the last namber, the small share of assistance rendered by Mr. $E$. has rather tended to embarrass and confuse the business of the publication thar otherwise. His excuse was, that from the fallure of the other enterprizes in which he had been engaged, his embarrassments were so great, that he found neither time nor inclination to attend :o the paper Thus the publication dragged along until the seizure of his interest therein by the Sheriff. The result of this mode of management has been, that the paper was not so well eduied as she writer wished, nor has the business part of the enterprize yielded profit to the proprietors or satasfaction to the public. We might say a great deal more to show that the paper has been seriously damaged, and the prospect of establishing it on a lasting basis, even in the beat hands, posiponed two or three gears, by the conduct of one
the proprietors, in which the writer ventures to say he can by no possibility be implicated.

But the consideration of such topics are not more uninteresting to the readery than disogreeable to the writer; riothing more than a simple announcement of the dissolution of the partnership, and the arrangements for the future, would have been published, had it not been absolutely necessary to account for the delays and changes in the publication, and to restore, if possible, the confidence of its supporters. Such a work as the Agriculturist, we feel satisfied, is wanted in Canada, and with a few modifications, if prope ily conducted, it will, we have not the slightest doubt, receive sufficient support. In the first place, it is a grand error to publish a paper at the low price of one dollar, and to give credit. Ifyou oend out agente, you must either pay them, or allow them a commission of at least two shillings in the five. One-fourth of the credit subscriptions, it may be safely said, will never be realised, andother fourth, at least, will be expended in the collection. This will leave one shilling and sixpence for each credit subscriber! about the price of the paper, and perhaps the expense of mailing! Figure the thing up as you will, we know that the practical result is even worse than this. Let those who please publish newspapers on the credit principle, we are determined to do it no longer. Papers, whose subscription price is 3 or 4 dollars, may manage it, th sugh, we believe, many have broken down under the system, and many more have not long to live. In the case of an ngricultural paper, if it is not worth a dollar, it is worth nothing, and the farmer who is not able to pay the dollar, and pay it in adviance, does not want it. We would rather have a circulation of 3 or 4 thousand on the cash system; than twice or three times that number on any other.

We shall be obliged to publish the paper in ite present o. ape till the end of the year, in consequence of not being able to get a press large enough to print a sheet which will make 32 pages, the size of those of the Albany Cultivator, or American Agriculturist. We intend to commence the volume for 1850 , on the general plan wf those two admirable journals, and .we slall endeavor to give as much reading matter as is contained in either of them. Other points relating to the next volume, will be fully explained in future numbers of this paper.

W்e must here urge upon our agents the absolute necessity of collecting and tansmitting what is outstanding, without delay. The paper is now largely in debr, and to carry it on thll the volume is completed, and to discharge its present liabihties, will require every shilling that is due. Societies that have ordered the paper, promising to pay in the foll, will, it is hoped, remit as early in the fall ag possibie. If parties grumble at irregularuses, and at the change from semi-monthly to monihly, all we can say, is, that we undertook what we have been unable to accomplish without twice the circulation obtained, unless we had been willing to submit to a certain loss of two or three hundred pounds, which for the reasons above stated, must have fallen on the shoulders of one partner. In spite of our disappointment and difficuliies, we believe we shall be able to satisfy all the reasomable patrons of the publication.

Weevil in Wheat.-A practical furmer in our county tells us of an experiment he tried in kerping off this scourge of our wheat fields, which proved entirely successful. Lnst year lis crops of rye and whent were in adjoining fields, and he noticed that his wheat neat the rye field was apparently unharmed by the weevil, while the remaining part of his wheat was mostly eaten up by the insect.
In the Fall of 1846. after sowing a small field with wheat, and harrowing it in one way, he sowed a-peck of rye over the same ground, and harrowed it in the nther way. The result is, his crop of wheat is goorl, stands 20 bushels to the ncre, and is entirely free from the insect; while his neighbours' wheat fields, of as good soil, are wholly destroyed by the weevil, and turned to pasture. He is a firm believer that the small quantity of rye (mixed in sowing) wilh his wheat, saved his crop. We have seen something of this kind mentioned in the Cultivaior, and are glad our fromers are testing the result. If the weevil will not touch wheat when rye is growing with it, the mixture should be nade until the insectis exterminated.-Oswego Times.

## CHEESE

Although we have lately published remarks at some length on the subject of cheese-making, we are induced to insert the fullowing, being the practical directions of an experienced dairy-woman. There can be no harm in piching up information on a subject so important, wherever it can be found. It is hardly necessary to say that we have no practical acquaintance with cheese-making, and therefore are incompetent to judge of the superiority of one mode over another, or to decide upon conflicting recommendations. Those who have not attentively read the fuller details, in the Report of the N. Y. State Agricultural Society, may glean something from the brief remarks below :-

Cherse.-It is dilficult to give intelligitle written directionis on this subject, as success depends so much on experience that it requires practical teaching; but when this is not to be had, we must make up by care and observation in practice, what is necessarily deficient in theory. To make the cheese of a small dairy-say eight or ten cows, which would produce seven pails of milk per day, which if properly managed would make twenty ibs. of chrese. I give the following rules; one point being constantly observed-that is temperature; ss too much heat not only affects the quality, making it hard and poor, but diminishes the quanity. The milli when set fo: curd, should be at 90 degrees, or about two degrees below milk heat. -The rennet $1 s$ then added, two or three spoonsful to seven pails of milk. The exact quantity can only be ascertained by trying its strength. If the proper measure has been used the curd will be fit to break up in one hour from the time it was set; which may be done with a long skimmer or curd breaker. This must be done very gently to avoid bruising the curd, and losing the cream. It is then left one half hour to setile, a pail-full of the whey is then made milk warm, and returned to the curd gradually, all the time breaking it up.-Another pail full of whey is now made two degrees above milk heat, and most of the whey remaining on the curd, let into another vessel, left cold. The warm whey is then returned to the curd, breaking it up as fine as peas. It ahould be now one degree above milk heat ; if it is not, heat more whey and put on. It is then left fifteen minutes, the strainer is then spread in the cheese basket, the whole mass put into it, breakmg it up as the whey drains out. A pail of whey is then put on to cool it. After being sufficiently drained, it is returned to the cheese tub, and aalted one gill of salt to 16 lbs , then put into the whoop and pressed with about half of the proper weight put on, till near night, it is then turned, the whole weight put on, and pressed until next day when done.

If you wish to make a double curded cheese, make the second curd in the same way as the first. When it is ready to go to the press, take the first curd, (now a cheese,) out of the prese, but not out of the hoop, cut and scratch over the upper surface, making it rough, that the second curd may adhere firmly to it. It is then put into the hoop, with the other pressed until near night, when it is turned into anorher strainer, and pressed thll the next cheese 13 ready for the press, when it is taken out and rubbed with laro, a bandage sewed on it and turned and rubbed every day.

Another vay of making a double curded cheese is, to make the first curd without varm whey, merely cut ng it up in the basket, and letting the whey crain out, keep till us day, when it is cat into small pieces, warm whey put on it cati it is a little more than milk warm, then drained and chopped; the seend curd made aczording to the firstrule, is mixed when it, sated, and fut to pres.

## FRESERVATION OF ANIMIL AND VEGETADLE SEBSTANCEE

A valuable process for preserving imious substances, is noticed in the English papers. It consists, I. In an improved method of applying rapid currents of heated air to the drying and preservation of vegetable substances. 2. An impruved method of applying rapid currents of heated air to the preserration of meats.-3. An improvid method of applying heat to the preservation of the edible matt $r$ contained in eggs.

Vegetables, such as carrots, turnips, parsnips, \&c., are first washed and scraped, then sliced by hand or machinery, and laid in thin layens on trays with hair cloth or lattice work brttoms, and the trays placed on rachs, whe above another in the heating chamber. When thoroughly dried they are to be put up in packages ; or before packing they may Le reduced to a fine state:-hut the packages shoull in all cases be air tight. Pobaloes are prescrad oy first bobing or steaming them, and after beintopeeled, reduced by mashing or otherwise to a state fit for spreading in thin layers, upon trays of the same description as those employed for the aricles above named. The
trays with the substance are exposed to currents of hented nir., nt a tempernture of about 150 (Fah) till the substance is thoroughly desiccated. If the substances are of small size, such ns pens or benns-they are exposed in their entire state to the rapid currents of heated air.

Ment, when bulky, is first cut into slices of about linlf an inch thicli-the slices hung on lines or nalls, exposed to the currents of heated nir-the tempernture 120 to 190 . All moisture is by this means completely expelled from the meat, and its albumen at the same time, firmly congnlated. Meat which has been so treated, will continue for a long time, under ordinary circumstances, in a parfectly wholesome state; but if it is intended to be exported to damp or varinble clunaes, it is secominended to appy a little highly-diluted pyroligneous acid, or some othar approved antseptic, to prevent it from reimbibing humidity: after which it should be subjected to a further heating in order to free it from any moisture it may hold. To ascertain when the meat is perfectly dried. a portion of it may be weighed at intervals, and when it ceases to show any dimunition of weight. the process may be deemed complete.
To preserve eggs they are taken from the sheils, the white and yolks intimately mixed together, and about an aqual weight of whent flour, ground rice, or other farinaceous substance, is added to them, and the whole beat into a uniform mass, which is spread upon trays of horse hair cloth or lattice-work bottoms. The mass is then exposed to a temperature of about 180. When thoroughly dried, the mass is reduced to the state of flour, and in that state packed up for use. The eggs may be preserved in their entire state, denuded only of their shells, the yolks and whites being dried and reduced to a state of flour without any intermixture with other substances.-Cullivator.

Heaves In Horses.-I have been acquainted with this disense practically for many years. I think it can never be cured, nor much alleviated by medicines. I am assured, on what I consider good authority, that removal to Ohio is a certain remedy. I ouce drove a heavy horse twenty years old, through a journey, going and coming, of eleven hundred miles, in the months of May, June, August and September. The whoie was accomplished with fuir speed and a good degree of comfort to man and beast, by the observance of one short and simple rule. Aroid dust. The manger and rack were usually dusted, the hay shook and sometimes watered, and the onts wet before the horse was allowed to approach them. A good deal of trouble," says one. "Yes," I answer, "and a good deal of comfort, too, both to horse and traveller." The worst predicament was in travelling a dusty road with a light breeze blowing in the direction of the journey. Then the poor creature suffered, of course.-Cor. Ohio Cult.

A Simple Clae for Disentert, which has never fallev.-As the season to which this complant is most preva lent, is near at hand, we insert the following, cut from the Caledonian Mercury, a stnndard Edinburgh paper, which does not publish trumpery. The plan is simple and easy enough of trial :-
"Tathe some butter off the churn, immediately after being elurned, just as it is, without being salted or washed; clarify it over the fire like honey. Shim off all the milky particles when meltedover a clear fire. Let the patient (if an adult) tahe iwo table-spoonsful of the clarified remainder, twice or thrice within the day. This has never failed to effect a cure, and in many cases it has been almost instantaneous. It has already succeed d in ncarly one hundred trials, and to many who were supposd to have been at the point of death, it has given instant relief."

Hydrophobra. - The following is said to be a preventive of hydrophobia, discovered by a French physician, M. Cossar : Take two table spoons-full of fresh chloride of lime, in pow-der-mix it with half a pint of water, and with this wash keep the wound, constantiy bathed, and frequently renewed. The chlorine gas possesses the power of decomposing this tremendous poison, and renders mild and barmiess that venom against whose resistless attack the artillery of medical science has been so long dire ted in vain. It is necessary to add, that this wash should be applied as soon as possible after the infliction of the bite. The frllowing a, e the results of this treat ment. From 1510 to 1821 , the number of persons admitted into Breslau Hospital, 174 - of whom only two died.-From 1783 to 1834 , into the Hospital at Zurich, 223 persons bitten by different animals, ( 182 by dogs) of whom only four died.

## PROVINCIAL EXHIBITION.

The Show of the Provincial Association will be held at Cobourg, on the $3 \mathrm{rd}, 4 \mathrm{th}, 5$ th and 6 th days of October next. Although from the scarceness of money, it can not be expected that the District Societies will contribute as liberally as they would otherwise have done, yet we are glad to see that a very respectable amount is likely to be obtained. The Agricultural Societies throughout the province should feel their credit and honor pledged for the character of the Exhibition of the Provincial Society. Many of our American neighbors will no doubt be present, and many of our own people who will have visited the Buffulo Fair, will also attend. Therefore.a determined effort should be made by competitors and managers to produce a splendid Show.

## NEW YORK STATE FAIR.

The Annual Fair of the State Agricultural Society, will be lueld at Buffulo, on the 5th, 6 th and 7th of September. A splendid show is expected. Canadian stock and agricultural products are allowed to enter for competition. Two or three gentlemen from this side have been chosen to act as judges. A convention of Fruit growers and Nursery men of the State of New York and of Canada will be held during the Fair. Every lover of improvement in agriculture, who can possibly spare time and expense, should go to the State Fair. He will see much to admire, and will come home, we dare say, somewhat wiser. So convenient an opportunity will not very soon be agnin presented for observing the way in which our neigh:bors manage these things. We would especially recommend those gentlemen who expect to officiate at Cobourg in October, to visit Buffalo on this important occasion. The confusion and dissatisfaction exhibited at Hamilton last year might thereby be avaided.

## THE GREAT ANNUAL MEETING OF THE ROYAL AGRICULTURAL SOCIETY OF ENGLAND.

The country meeting of this important society took place at Fork, on the 10th, and two following days in July. From the seports which have reached us, we conclude, that the exhibition has not, in any one particular, fallen short of precediug anniversaries, and in a few respects. appears to have been decidedly superior. The situation of York would, of course, ensure a large attendance of the best breeders atid farmers of Ergland. The show of horses, as might have been expected, was remarkably large and fine. No less than 120 stallions were entered for competition, all of them good, and not a few truly noble animals. It would nppear that the Durhams, although excellent, were neither more numerous nor superior to former exhibitions. The Devons were few, but first rate animals, Shoep and pigs in most of their many varieties were fuite equal to former occasions. The judges, it would appear, paid more attention to the natural character and distinctive points of the animals, than the gross amount of fat with which'tiney were encased-a ohange for the better lately observable at several of the principal Cattle Shows,

The Implement yard was crowded with an immense amount of implements and machinery. Not less than 1,700 different articles were entered for competition, of which 200 are described as being new inventions. A peculiar feature of this department, was the large number of steam engines ndapted to agricultural purposes, 17 of these were entered for the prize. There were 120 ploughs, 80 drills, 88 harrows and 82 carts or waggons of different constructions. The chaff-cutters, corndressing machines, grinding mills, crushers, scarifiers, horsedoes, and machines for making draining tiles and pipes, were
exceedingly numerous, exhibiting a large amount of expenditure both of skill and money. The first prize for the best plough adapted to heavy land, was awarded to Mr. Brisby, an implement, it is suid, capable of working the land effectually twelve inches deep, and with a lighter mould-board may be worked with two horses. The steam-engine to which a $£ 50$ prize was awarded, is described as of six-horse power ; simple in its construction, fitted with governors, and easy to manage, with tubalar boiler, fire-box, and smoke-box complete, and equally adapted the various purposes of the farmer.

A very valuable feature of their meetings, is the linge amount of scientific as well as practical information that is afforded. Professor Iohnston delivered befroe the members an admirable lecture, on some of the more obviots paints of connectios between science and agriculture; and the next erening, Professor Simonds, of the Royal Veterinary College, London, delivered a very interesting and instractive- lecture, on the subject of alving and lambing, illustrated by a number of colared plate

Both the council dinner and that of the members generally, were as usual very numerously attended. The Earl of Yarborough, the President of the Society in the chair. Among the company were Prince Albert, the Dukes of Cambridge and Richmond. The Belgian, Prussian, and American Ministers, with a large number of the noblity and prinoipal landowners and farmers of the country. At the council dinner, we observe, complimentary toasts were dispensed with. The noblc chairman, after giving the Queen, Prince Albert, and the Royal Family, introduced a subject for discussion-"The best method of raising cottle during the first year." This called up several speakers, each being confined to 15 minates, and much valuable information appears to hape been elicited. $\boldsymbol{B}$.

## WIRE WORM.

The following communication was given to the printer for the last number, but was overlooked. Mr. Denison will please accept our apology for the inadvertence. We have from time inserted sweh remedies as we found recommended for the wire worm, bat as we have had no personal experience in the matter, we can give Mr. D. no reliable information. This is just one of those cases in which an agricultural paper may be rent dered invaluable to the farmers, if they would make a legitimate use of it. If, when one reader meets with any difficulty which baffes his skill, (and such dificulties are constantly occurring, he would inquire of his brother farmess threaghous the province, many of whom will in all probability have nad some experience on the subject, and if they would reply, giving that experience, not only for the bencfit of the inquirer; but a hundred others; who could calculate the amount of good that would thereby be effected? How many losses would be prevented, how many dollars saved by individuals, how many thousands would be added to the annual products of the country ? But, "I can't write," and "I hav'nt time," and a dozen other excuses, equally absurd, will be made, and the sufferer will go floundering on-the question will never be askedand if it be, no one will answer it! While every question of trade, or science, in which the interests of the merchant, mechanic, or the professional man are involved, is discussed as soon as it arises. Books are ransacked, facts gathered, statistics compared, experimeuts made, till every conceivable means has been exhausted in the endeavour to throw light on the subject ; the newspapers take up the question, the editorial quill is at once in active operation, recording the various knowledge, the diversified facts, the unique thoughts that are tumbled together in such $\$ 4$ admired disorder" in that most singular and,recherche repertory, the eciatorial brain; but when a
question purely affecting the operations of the farmer, let it be never so important-though the very bread of life be peril-led-who takes it up? Who sets about finding a remedy for the evil? Here and there an isolated individual ; there is no concert-no communication of discoveries; if by chance some one does get a clue to the difficulty, he acts as if he were afraid to let any body know it; his immediate neighbors may hear of it, and derive advantage from the discovery, but to write to a newspaper, to show such vanity and presumption as to publish his knowledge to the world! Horrisle! it is not to be thought of. But-never mind. "God said, ' Let there be light' "-and we are one of those who are looking for the fulfilment of the command in the removal of mental, as well as physical darkness :-

To the Editor of the Agriculturist.
Sir,-
Having read gour last editorial, I am convinced that many of your remarks are correct, Irom my own experience, which I will give. Six years aince I sowed six acres down with clover and timothy, at the end of two years the clover was all gone, frozen out in the manner you mention. I continued to mow the timothy two years longer, and then ploughed and sowed with peas, which was a good crop; after that I ploughed twise, adding it to the adjoining field, which was a naked fallow,) by taking away the fence. I sowed the whole in fall wheat, early in September-the naked fallow produced a fair crop, butthe sod field was all deatroyed by the wire-worm, which was the first I had ever seen, though brought up a farmer. In the spring, when I found the crop destroyed, I sowed again with epring wheat, which was cat of in like manner, when about two inches high. I then ploughet again, planting with Indian corn, pumpkins, mangel wurtzel and turnips-the corn was all cut off, and the mangel wurtzel, pumplins, and turnips, were a good crop, but the latter perforated with many small holes, in some of which I found the worm hard, round, yellow, and nearly an inch long. The turnips为ept sell all winter. This year I sowed 2 acres that was last year in turnips, with barley, and now that is nearly destroyed, atter promising well, the remaining four acres I have put in turn pe, carrots, and mangel wurtzel, with a grea! quantity of dung, and expect a good crop. But what to do next year I know not, till I get rid of my enemy, can you tell me 3 for at an honest calculation, $I$ have los! $£ 50$ by that field, which is some of my best land. I have heard tiat salt will kill them, but iI fear:I cannot afford that cure, nor do i know how much, or in what manner to apply it, bing only a native.
N. B. I would also say that I have never found one cf the worms in the other balf ibe field.

> Your subscriber,
fi. L. Dexison.
Drumison Terrace,
Toronto, July, 1848.

## To the Editor of the Agiculturion.

Siz,
From what has appeared in the agricultural paper of Cansida West for two or three yeare past, and from what has come under my own observation from other sources, I believe a large portion of this Province is well adapted for dairy farming and raising stoch; and judging from the samples of stock exiibited at the Provincial Show at Hamilton, there is a foundation laid for raising as good stock here as in any part of the world. But to make the dairy farm and the ra'sing of stock a pleasant and profiable occupation, it is uecessary to have good pasture in summer, and comfortable convenient stables and plenty of feed in winter.

As many object to the labor of feeding cattle in stables, and also to the expense of building-objections of some weight where the price of labor is high and the means of the farmer small, which is often the case in the newly settled parts of the proviace-I send you the plan of a cow-stable and hay-barn, which would in a great measure remove the objections just alluded to. With the exception of the floor over the cattle for the hay-loft, and the stalls for the cows, it would cost little more than a common frame barn of the same size.

As the cattle are all fed from the floor in the centre, one person coald feed forty or fifty cows in a very short time; and for feeding with green feed in summer or roots inc winter, it is easy to see that this barn would be very suitable, as a cart or waggon could be drawn elong the floor, and the troughs filled from it.

By having two cows in each stall, they ent their feed better, with leas loas than any other way of feciling thom. In thas way the tumb or weak get ther share with the strong, wheh is not the case where they are allowed to go loose in a yard; and by fastening them with a chain and swivel to a sider, as shown in fig. 5 , (will appear in the next number, the catte have nearly as much freedom as if they were loose, while one cannot hurt another. There may be cheaper ways of fining cows at the first, but I have never seen any method of faste: ing them that wonld mive them as much freedom, and at the same time, be safi and durable, and therefore cheap in the end.
The yard should be near the end of the buidmes, so as to be hamdy to put away the mar.m. The liquid manure should be conveyed to the tank (L) from the ga'ters, and the bunding should be phaced so as the fall of the ground would be to the dung-yari.

The mulk-house being at the other end, the drainage would be from it, as dirty water and every thing that would cause a bad smell, must be conveyed away from the milk-house, for any bad smell will assuredly taint the milk.
The bottom of the dungstead should be nearly level, and by having a dran inte the tank, nll the liquid manure would be saved. The sills being laid on a stone foundation 2 feet high, and by making the dungstead 1 foot below the surface, the dung-heap could be 4 or 5 feet deep, and yet not much above the level of the floor. I am speaking of ground that is nearly level ; where it is otherwise a greater advantage might be got so as to have the manure heap deeper, but then it would require the tank to be at the lower side of the dungstead or to have two tanhs. It looks much better, besides it is a great saving of manure, to have $i$ put a good depth in one place, than to have at all scattered lieve and there or filled up to the sides of the house, for it is one way of pulling down a house to lay the manure to the shles of it. I thank if the manure, liqud and sohd, is carefully collected and properly applied to the land, it will pay ali, the labour of stabling cattle.
The trevis boards for the stalls would require to be boarded to the same height in front of the cows, and by having the boards moveable from the edge of the fecding trough, they cou'd either be made with hinges or to slide up so far as to allow the feed to be pot in the troughs -perhaps it would be a better way to put four 6 -inch pieces of boards 4 inches apart, which would be high enough. It woulu also be lighter and allow a better circulation of air in the stalls. As the drawing as very plain, I do not think it requires any further explanation.

It might have been proper to have said something about a milkhouse for this country, to suit the extremes of heat and cold, and keep the milk and other dairy produce in a good state. If any of your readers would be so kind as to give a description of a milk-house that would be suitable both for summer and winter, stating what would be the best materials, ns well as the best method of constructing it, I am sure it would be a piece of information that would be gladly recerved by a number of your subscribers,

Anderdon; Wes!ern District,
June 19th, 1848.
P. S.-I would be very happy to meet a few hundred of my Ca nadian brethren at Buffalo, in September next, to see cur agricultural filiends in the State of New York ; for, from the encouragement and invitations chey have given us, both as a society and as individuals, to go there, we may jusily call them friends.

Prize List of the Provinclal Grand Show.-Just as we wete putting our pap-r to press, we received the Plize List for the October Exhibition, printed at the Star Office, Cobourg. We have not space in this number for any paticulars, eacept to say, that the prizes are geinerally well arranged, and as high as can be expected in the present stare of the Smey's Funds. All prizos are paid in money. The first pize in all the classes of caltle, except grade cattle, is $£ 710 \mathrm{~s}$. First prize for horses, flo. We shall endeavor to give the greater part of the list in our Stptember number.

All articles mast be entered by 10 oclock, $p . m$, of Tuesday, the 3rd October. Payment of 5 s. constitutes any person a member, and none but members are allowed to compete.

Root Cutrivg Michives.- - I never felt the need of a machane of this hind although I have fed roots freely for many years. I use a box with a hard wood plank botom. The size depends on the amount of stuch to be fed. In such a box I crash them with a square headed mallit. Here are no hnives to get dall or be broken by a stone among the roots. This box may be kept in your cellar in cold weather. All sorts of arimals eat roots thons prepared more easily than when sliced in a machine; siace by being left m grains by the mallet, and these grains often cohering, the anımal cau the more readily selze them than when cut by a machine.

## WRITERS FOR AGRICULTURAL PAPERS.

There appears to be a desure among many writers and readers of Agricultural papers to interdict from the columns of the press all writers who are not rigidly practical men, and to my comprehension this is an crror that should be discountenanced.

Are we to weigh and to measure everything by its mere worth in dollars and cents? True, a man may be practical in growing of flowers, or the dressing of a set for a finger-ring or a breast-pin, and might be admitted on the one hand as practical, or on the nther as one who has grown rich. Yet there may be others much better qualified to give directions than either the one or the other. Were a man required to teach ono how to handle a spade or a hoe, then we might look for the practical man. Or were giving lessons in making money, then the man who would best give demonstrations how to live on nothing, and spend no money for comfort or luxury, would be the man to look for.

The great bug-bear is theory; that is the stumbling block. Now this thing of theory is as esse..tial to the thinking planter or farmer who desires improvement, as any other thing. Hy pothesis is quite another matter. The one lays down reasons from known pre nises, deduced from facts. The other assumes premises, and is too prone to be a dreamer.

The lamented Willis Gaylord, was one of the most cogent and able writers we huve ever had, yet he was unable to $p$ actice the theories he had deduced from his early labors, which were even then limited from bodily infirmity.

I have been a tolerably close observer of men and things, and I think I shoull not err, if I said-as a rule laboring men are not in the main good at directing, nor are money-making mon good managers. The first follows too much a routine taught him ; the other has no other idea but saving. The first fears to try an improvement he neve: tested, a course of cultivation he never tried, a seed he never used, lest he might rot do as well. The other will not lay out a dullar that he does not see the immediate return of. I'here are exceptions I admit, and when we meet the enlightened mind, then we should hold on to and encourage. But the idea as thrown ont by one writer in an Agricultural paper, that money-making men, are the men who improve land and stock, keep up fences and buildings, and in short do every thing well-is a vain hypothesis. Let us look into any neighborhood, and we shall fird mun who are accumulating property, who wear out land, and live without much expense. Large crop makers, work at a heavy out lay of something, and the man who makes large crops has not the time to rebuild, or improve land.

Most men that have accumulated large estates, can not tell how they have grown rieh-and other men who make large crops, cannot see why every body can not do so. The fact is, there are "vessels made to honor and others to dishonor;" some men with one-faculty and others with another ; to make money comes as easy to some men, as the etennal waste come. to others. Let us hear from all, and though we may have to piek over a bushel of chaff to get a graia of wheat, yet we may be benefitted thereby.

I do not like this way of ruling off the track, all that have not the Flying Childers or the Eclipse blood in their veins; if agricultural readers only want to hear how they can make dollars, let them call up the misers from their dens, who can best tell them how many grains of corn will do to support human life.; and as they pay for the printing, they have a rizht to control. As for me, this eternal weighing and measuring with a dim?, I am sick of. I love dimes, but I do not want to eat them, nor sleep on them, nor to measure a man's honor, nor his worth, nor his ability to advise me, by the length breadth, weight or worth of his purse.

If I wanted legal counsel, I woald not ask whether Daniel Webster was wealthy; if I wanted medical advice, I would not ask whether Valentine Mott could make pills fast. No, sir, I would ask-are they fully, sufficiently, entirely compe. tent in their professions?

Why should not the principle prevail in agriculture? Why should not Dr . Daniel Lee be just as able to instruct in the best mode to conduct an estate, as any Jonas Smallbones in the land, though he might be born between the plough handles? The instructor must have the faculty of communicating his views, and should by all means be thoroughly conversant with his sub-ject-then, it mafters not whether he be a doctor or a plow-

There are many who are ton much bound to their own views to examine others, or to give them a trial. Much of this natural (I may say) disposition is broken by mixing with our
neighbours-by education-yet it will hold to oneself in spite of him.
I consider myself a practical man, yet I have not hoed a row of corn or cotton in many years, nor turned a furrow, yet I am not considered practical by the majority, because I had the b!essed advantage of having had a father who sent me to school and made me study.

I cannot accumulate property, nor do I have that sort of a desirt: I see so many things I want, that I spend my dollars before I get them to jingle. Though I am not anxious to write for the press, and will gladly quit, whenever I see such a desire exhibited by even a tithe of the readers, I have vaiuly thought that, though I have sheep-skins enough to permit me to use the M. D. I might he of servicu to my fellows; if in error, I assure you and all others that I erred in judgment, not from any vanity.-Alb. Cult.
M. W. -Philips.

Ren.water in Cows.-We are informed by the Danville (Va) Register, that not. Jess than 300 cows have dird in that vicmity, from the disense called red water. It is a malndy we have never met, with, nod we are not prepared, from our personal knowledge to "throw any light upon it." According to veterimary works thare are two kinds of red-wnter-ncute and chronic. Cole's Veterinar: on describes the latter, (which is probably the kind above siauded to, ) ns fullows:-
This is most common in cows of wenk constitutions, and in calves. In the first stnges, it is far more a disease of the digestive organs than of the kidneys. The following canses are assigned: relaxed vessels; thin blond; cold: clange from poor to rich pasture; luxarions pasture for cows recently dried and searcity of water in a long. dry summer. Some of these are only secondary canses, and there are doubtless varions other primary canses, among which is the want of exercise.
Symptoms. The urine is of a brown color, or brown tinged with yellow. The beast feeds nearly as well as before, but rominates more lazily. In a few days a natural diarrhea comes on, and then the animal is well agaia; or a purgative is given nad a cure is soon effected.

At other times the animal is dull, henoy and languid; the ears droop. the back is bowed, she separates from the herd, refuses food and censes to ruminate. Agan she is better, nud then suddenly changes to worse; the uine assumes n dark color, resembling foul coffee or porter; it increases, in quanity. and is sometimes discharged with difficulty and in linle jets. The milk diminishes, and acquires a tinge of yrllow or brown, and the taste is unpleasant. The pulse is accelerated to sixty or seventy beats a minute. The skin is yellow, hut of a darker yellow than in jaundice; it has a tinge of brown. The urine becomes of a darker hue, and is almosr black. Sometimes the animal shrinks when the loins are pressed. but not usually, nor so much as in acite red water. There is a lass of condilion wid general debility, and the lens and ars are cold. In every stage there is costiveness very diffecult to remative, yet generaily there was violent diarrhoen at the beginning, which suddenly stopped. The dark color of the urine is caused by vitiated bile, not by blood, ns in acute red-water.
An examination, after death, shows that the contents of the manyplus, or third stomon, are perfectly dry and alinost as hard as thong'l they had been baked - $T$ is is doubtiess the disorder which many farmers call dry belly-ache; and some call it dry murrain. The liver is inflamed, and darker than usioil; the gall-bladder is full to distention, and the bile is thick and black. These circums:ances show that the seat of the liver, and the gall is obstructed in its pasaage to the intestines; and indiuestion is the result
Remedy. As in this disease constipation of the howels is gronerally obstinate, back-rake, and give an exciting injection; then give a good dose of physic, with ginger, or other stimulant, and if there be no operation in six or eight hours, Iepeat, in half doses, and continue mild injections occasionally, until an operation of the physic. Give also warming teas, stich as sage, peppernint, \&c. Feed on laxative food, and give astringents, as for jaundic", to restore the digestive oryans to their usual tone and action. We think that ashes and cider would be excellent. Saltpetre, in doses of an ounce, is yood. Change the food, and remove all cause of disease. :Small doses of sulphur are good.
Prescrvation fa Cucumbers.-In Germany nad Poland, it is suid barrels of cucumbers; of varinus sizes, and'ages, hended water tight, are preserved fresh, fiom one year tô another, by immersing them in deep wells, where the uniform tenperature and exclusion of the air seem to be preserving agento. $\because$.

CIUVITL ANTD SOCTMU.

## FREE TRADE WITH THE UNITED STATES.

The following important bill, providing tor a fiee exchange of hational products between the two countries, passed the Unted s:ttes House of Representatuves, and before this time, has probably received the eanction of the other branch of Congress. It is a measure of first importance to this country. The prices of gram, partuculariy of wheat, have, for several years past, been about 25 per cell. higher there than on this side of the line. Free access to the Amtrican market add an additional value of at least 20 per cent.to the chier artict $=$ of Canadian produce. This spur to Canadian industry wall scon produce the most happy effects. It may be of use to look at the causes of the greater value of produre in the Unted States than in tho Canada market, to see whether they be tempornry and accidenial, or arise out of some local or natural advantage that will be likely to make them permanent. As the Americans produce a large surp'us of grain teyond what is necessary to suppiy their owa wants; it follows that they have no final market to offer for Canadian produce All the advantage therefore which we derive from the American market, is in the cheaper means of transportation, to the market where the grain is consumed. They have a surplus of grain to sell -so have we. If we can send that surplus through wur chamite of communication, cheaper than the Americans can thre: ${ }^{-}$.t their channel of communication, there will be less to deduct for freghit from the produce of our farmers, than Srom that of the Americans, and the Canadian farmer will get more than the American farmer. In that case, the American farmer would seek to enhance the price of tis produce, by availing of our cheaper means of reaching the Ensli h market. But at present the case is reversed: the Amelicans can send the produce to England cheaper than we can; therefore we arek to avail of that cheapness, which will add to the value of our grain. The question is, who has got the best and cheapest ships, and the best rivers and canals? The Americans have got better ships thon we have; the dangers of the navigation are less fiom New York than from Quebec, and consequently the rate of insurance, as well as of freight, ate lower. Our stipe will not mueh longer be inferior to those of any other couniry. The vessels of all nutions will visit our ports, if the bill for modifying the navigation laws $f$ ass the Imperial parliament. Tise somewhat dangerous navigation of the Gulph of SI. Liwrence is beyond the power of man to remedy. It is possible that insurance will continue a trifle higher from Quebec than from New Yoik. But this, it strikes us, is the only advantage the Americans will have over us, whon our canals are completed.If they will have some advantage over us in sea navigation, we hupe to be at least equal to them in inland communicatuon. We posstss one of the most spleadid rivers in the world-ihe St. Lawrencewhile the Americans have nothing but an aruficial channel from the great Lakes Ontario and Erie to the ocean-a canal. Here we have nature pitıed against a.t; river va. canal nivigation. Our spleadid river is not free from ropids and other impedmants in navigation, but these are neither numerous nor insuperable. If the sea navigation from Quebec becomes as cheap as that from New York, ne doubt we shall finally be able to compete successfully with the Americans in inland navigation.

Free access to the market of the Unied States, is adranagrous, at this moment, on account of the position of the carrying trade, Which is itself in a state of change. A spirited rivairy will epring up between Canada and the United States for the trade of the west. When the time comes that we can command the trade of the west, or a fair share of it, the time wall have passed when free access to the American market will be advantagenus to as. In the meantime it is an important advantage. It we take the right steps now, the future must be guided by the altered cucumstances io which it will give birth. Some of our cotemporaries have hinsed that, immediately on the final passage of the reciproctty bill, by the United States Congress, the Canadian Govermment will give effect to the law by an order in council. We take the following from the St. Catherines Journal:-

RECIPROCITY BILL.
A Bill to admit certain articles of the growth or production of $\mathrm{Ca}-$
madn into the United States, free of duty, upon the condition that the like articles of the growth or production of the United States, are admutted into Canada free of duiy -

Be it engeted by the Senate asd IIouse of Representatives nf the Chated states of Amerna, in Conzicss asvemoled, That whin the Puesdent of the Ciated Sin es shatl bese hi- pruclamatoon drelarmg the arucles hemmater enumerated, bemg of the growth or production of the Inuted States, to be admulted into the Province of Camada, by haw, free of da'y, then on and after that day, untul otherwise directed 'y Congress, the like articlex, bemy the growth or production of sadd Province of Canada, sha 1 be admited into the Unted States free of duty, to "it (iran and breadstuffs of all kinds, vegetables, fruits eneds, ammals, hiles, wool, butter, chcese, tallow, horns, salted and fresh meats, ores of nill kinds of metals, ashes, tumber, siaves, wood and lumber of ali kinds.

W'm Hamilon Meriit, M P. P, for the County of Lincoln, has just recelved letters frum the Hon. Washington Huni, Charman of the Comm.ttee of Commerce, and the Hon. Joseph Grinnell, the member who introduced the Bull in the temporary absence of the Chairman, announcing its passing the House of Representatives on the 12thinst.

The inhabitants of both countries are indebted to these gentemen, as well as the Hon. J. Dix, Charman of the Committee of Commeren in the Senate, for their exertions in removing the unnatural and unnecessary iestric: ons on the exchange of the natural poductions of the iespective countrics.
This change in the commercial policy of Canada warrants the Guvernmeut in summoning the Provincial Legislature, to give it effect, ill the shortest pusible pertod; the Fall Trade alune would justify hem-if warhcts continue higher there than in Earope the farmer will gan one quarter in the value of his products, which for the amount exported during the navigable part of the season, will be no inconsiderable item, besides ensuring employment for our malls, vessels, and a general revival of trade.

The value and importance of this measure is not generally understood or appreciated. The actual difference in prices since August of last year, in the markets of Rochister and Toronto, has ranged from 25 to $33 \$$ per cent. The loss the country has su-tained by this diminution of its wealth, accompanied by the prostration of all business, is sensibly felt. Here,fter the best markeis in America will be open to the productions of Canada-an inequality of prices can no longer exist on the two sides of the boundary. The first step has been gained for Fiee Trade-the Home Government has manfested an carnest desire to carry out this principle, as far as this colony is concerned. Under the Britush Possessions Act, a Provin. ial law was sanctioned, increasiny he import duties on her manuactures from 5 to $7 \frac{1}{2}$, fifty per cent, and reducing the duties on American manafactures fiom $12 \frac{1}{2}$ to $7 \frac{1}{2}$ per cen', double the amount of the former. A more sweep:ng change was never before attempted, at any one time, hy any former Legislature.

Under the proposed Navigation Law, the Provincial Legislature will soon be invested with power to open our rivers and ports, and extend the same principles of reciprocity to American vessels which is already exten led to the natural proluctions of the respective couniries. Do we possess sufficient intehigence to meet the views of the Imperial Govermmen: in the like guod fath? Are we prepnred to avow the policy, an 1 without fathir loss of time commence the gradual reducion oi Import Duties, and as soon as practicable remove them altoge her.

Contemplate the eficct wheh removing all exis'ing restrictions would produce on the commerce and weal.h of Canada.

Stuated on a direct line between Great Britain, where capital, manufacture, and a deuse pop Intion has been increasing for ages, and an iniand coaet escceding 4,000 miles, above the Falls of Niagara, eapable of containing a pop :lation of many millions, with a soil and climate producing the fruis of the earth in great abundance, who will venture to predict the extent of the exchanges between these count ies - the profit to be realized by individuals-the revenue to be derived from tolls by the Governmen - the number of emugrants passing through or the prosperity and weeth created.

To ensure this trade, our canals mist be finished to admit the passage of a vessel to or from I, ke Elue to the Ocean, drawing at least nine feet six inches water, afier which, from May untal Octuber the major part of the commence of the Western States will pass through this channel; for the remainder of the season the trade of Canada will seek Atlantic ports through the United Srates, thus securing to the inhabitants of each all the natural advantages that either could possess were they under the same Government.

We heartily congratulate the country on the passing of this bill, and trust that no delay will occur to retard or defeat the cheering prospect it holds forth.

A Long Uinner.-Mr Hyy, afterwards Lord Newton, one of the judges of the Court of Session, wasequally remarkable as a bacchanal ahd as a lawyer. A client calling for him at four o'clock, and being surprised to find him at dinne:, said to the servant that he understood five to be Mr. Hay's dinner hour. "Oh, but, sir," said the man it is his yesterday's dinner !"-Chamber's Tradıtions of Edinburgh.

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## THE LAND OF DREAMS.

BY W. C. BRYANT. -
A mighty realm is the Land of Drenms, With lights that hang in the twhight sky, And weltering occans and trailing streams, That gleam when the dusky valleys lic.
But over its shadowy bordèr flow
Sweet rays from the world of endiess morn, And the nearer mountains catch the glow, And flowers in the nearer fields are born. The souls of the happy dead repair,

From the bowers of light to that bordering land, And walk in the fainter glory there, With the souls of the living, hand in hand.
One calm swect smile in that shadowy sphere, From eyes that open on earth no more-
One warning word from a voice once dearHow they rise in the memory o'er and o'er!
Far off from those hills that shine with day, And fields that bloom in the heavenly gales,
The Land of Dreams goes stretching awny To dimmer mountains and darker vales. There lie the chambers of guilty delight, There walk the spectres of guilty fear,
And soft, low voices that float through the night, Are whispering $\sin$ in the helpless ear.
Dear Maid, in thy girlhood's opening flower, Scarce weaned from the love of childish play !
Thy tears, on whose cheeks are but the shower That freshens the early blooms of May!
Thine eyes are closed, and over thy brow Pass thoughtful shadows and joyous gleams, And I know, by the moving lips, that now Thy spirit stays in the Land of Dreams.
Light-hearted maiden, oh, heed thy feet! Oh keep where that beam of Paradise falls; And only wander where thou mays: meet The blessed ones from its shining walls.
So shall thou come from the Land of Dreams, With love and peace to this world of strife; And the light that over that border streams, Shall lie on the path of thy daily life.

## ADELAIDE ACADEMY.

The Educational Institutions established among a civilized people, afford the most certain evidence of the character and degree of their civilization. We cannot expect the stream to run higher than its source. And accordingly, when we find a low standard of excellence characterizing the schools of a country, we may saf-ly infer an inferior degree of intelligence amongst its inhabitants. In Canada this remark is not true, to its full extent, for the reason that a large portion of its people have come from other countries, and have brought their acquirements with them. But the genernl rule will be found to operate here as well as elsewhere, and its effects are piainly discernable. It is a circumetance peculiar, we believe, to the present age, that the female mind is deemed worthy of higher cultivation than can be ordimarily oblained under the parental roof. The opinion is now held by thousands who occupy a position to spread and impress their sentiments on the public mind, that it is quite as necessary to the happiness and advancement of society, that females should be as well trained-as thoronghly educated in ali those branches of knowledge not exclusively within the province of the other sex-as males; and to accomplish this, it is necessary there should be public institutions, with means and appliances similar to, those provided in the colleges resorted to by males only.

We are glad to find such institutions springing up in our young country, which give promise of high excellence, though as yet maintained by private enterprize alone. They have not yct attracted the attention of government, bat we believe the day is not far distant when they will be admitted to possess as strong claims to its bounty and protection as any others.

We were present for a short time at the examination of the pupils ot the Atelaide Academy, which took place in July, being the close '
of the summer session. There have been about sixty in attendance during the session, superintended by a staff of seven teachers.Classes were examined in all the common English studies, inclading among them Rhetoric, Moral Philosophy, Geseral History, Astronomy, \&c. \&c. Their proficiency, as displayed during a lengthy and trying examination, was very creditable to teachers and pupils. We have no hesitation in recommending the Adelaide Academy, so long as it remaine under the direction of Professor Hurlburt atd his accomplished lady, to the attention of all parents in this vicinity, whe wish to give their daughters the benefit of a good-a suitable education. We make room for the following extract from Mr. Hurlburi's prospectus or programme of studies. The reader will thus not only see what branches are taught at this institution, but what, in our opinton, shouid be taught in all well-regulated gehools of the kind.-

In the Frst Department the Rudiments of Education are commenced. The Stdies are ; Reading, Othography, Writung, Geography, Arithmetic, Grammar, and Plain Ncedle-Work.
In the Second Department the Studies of the first are reviewed. Arithmetic and Grammar completed. General History, Analysis of Derivative Words, Progressive Compositions, Trimmer's Natural History, Bakewell's Natural Philosophy, and Plain Needle-Work.
In the Third Department the Studies of the second are reviewed, Composition, History of England, Watts on the Mind, Jamieson's Rhetoric, Ecclesiastical History, Geology, Astronomy, Keith on the Globes, with the Use of the Globes, Botany, Smellie's Philosophy of Naturai History, Physiology, Critical Reading of the English Poets and Cinssics.

In the Fourth or Highest Department the studies of the third are continued as Exercises. Paley's Natural Theology and Evidences of Christianity, Butler's Analogy, Abercrombie's Intellectual and Moral Philosophy, Natural Philosophy and Chemistry, Elements of Criticism, History of Literature, and Book-keeping If required, Algebra, and Geometry. Composition in the Journal and Letter form, or in written Essays, are required through the entire course. The pupils of the several departments are excrcised in Orthography, Reading, Parsing, and Writing.

Lectores, Librart, \&c.-Lectures will be given to the classes in Natural Philosophy, Chemistry, Astronomy, Phisiology, and Biblical History.

The Library connected with the Academy contains 500 or 600 ehoice volumes, embracing Histories, Voynges, Biographies, and also works on the various subjooto of otudy pursued in the Institution; select English and French Poets, \&c., \&c.

The Institution is furnished with Terrestial and Celestial Globes, Telescopes, and various kinds of Astronomical and philosophical Apparatus; Maps, and Churts ; Pianos, an Organ, Guitar. \&c.

From the course of instruction published above, it will be seen that the most useful of the solid branches are made the prominent subjects of study; at the same time, superior facilitios are afforded for the pursuit of all the solid and ornamental branches usually embraced in the education of girls. The studies are so arranged as gradually to develope the minds of the pupils, without confusing them or burdening their memories with subjects beyond their years, or above their capecities. The elements of education are first tanght, and must be visderstood before the pupils are advanced. For the better illustration of every branch of study, appropriate apparatus is used in the eeveral departments. In each department, the Teacher being confined to a limited number of studies, the instruction must be more thorough than in those Schools in which the attention of the Teacher is necessarily directed to a wider range of subjects. All the Teachers have had much experience in the education of young ladies. The departments are kept as distinct as possible, making, as it were, so many separate schools, connected with each other-the higher departments depend ing upon the lower-but all under the same government.

## CANADA.

## "Hail to the land whereon we tread,

 Our fondest boast!"Could the ancient lords of the forest look upon the land, where once they roamed, tree as the winds, they could not recognise in our cultivated fields, populous towns, and crowded streets, the hunting grounds of their fathers. Where once rang their warwhoop, and where were scattered their wigwams, they could hardly be convinced the red man's foot had ever trod.
Canada was discovered by Sebastian Catot, an Italian, who sailed under Henry VII. The English monarch did not think proper to make any use of this discovery. The French, however, availing themselves of the information afforded by Cabot's voyage, after various unsuccessful endeavors, finally established a colony in 1608. The country was conquered by the British in 1759, and in 1763 was ceded, by the treaty of Parts, to that nation, under whose sway, notwithstanding the repeated attempts to wrest it from the crown, it has since continued. Till 1841 it existed as two distinct provinces. The united province contains. 340,000 square miles-nearly three times the area
of Great Britain-a fact, which in itself considered, redeems our country from insignificance; yea more-inspires a glow of lugh tuned patriotic feeling.

From "its watery boundary on the south and east, to the utmost verge of its immense forests on the nerth and west," it abounds in charming and romantic scenery; "amidst the variety and grandeur of which the imngination wande.s and losses itself." Indeed, in no part of the universe has nature more abundantly spread her charms. Its lakes and rivers, while they must ever excte the admiration of the lovers of the beautiful, supply facilities for the promotion of commerce ; thus causing an intimate union between the various parts. In spenking of the magnitude of her lakes and nvers, a certan writer has remarked, " it looks ns of the great Pacific had burst the bounds prescribed for it; forced a channel across this great continent, and was emptying itself into the Atlantic-converting every valley in its uncontrollable course into an inland sea; for some of the lakes are equal, whilgt others are superior, in superficial contents. to the whole of the island of fireat Britain; and fancying now such to be their source, the wonder would yet be, that they still flow on unexhausted and inexhaustible.

Nor are her towering forests wanting in charms of attraction. They are remarkable for the prity and richness of their foliage; the rich hues of green being changed in autumn, to the most brilhart colors; and to use the language of another, " giving our autumnal forest scenery a gnicty, variety, and splendour of coloring, which the wildest fancy could scarcely surpass." The forest trees, as if impelled by some motive of emulation, tower aloft, nlmost to the clouils, and with their branches intertwined overhead, fcrm, as it were, a mighty temple.

Flowers of rich tints and delicate shades are plentifully scattered over this hichly favored portion of the globe, diffusing their fragrance alike upon the slumbering air of the forest wild, the mountain breeze and valley zephyr.

Fruits too, of various kinds and delicious finvors, are produced in this smiling country, so that her inhabitants need not sigh for the vineyards and orange groves of southern climes.
Birds of rare plumage and sweet song, flit among her grov:a; and let us wander where we will, we are enraptured by some new and charming landscape. There we behold some magnificent work, fashioned by the all-forming hand of God, which expands and fills the mind with awe, and, rising above the things of earth,

> "We climb the heights of yonder starry road
> Rising through nature up to nature's God."

Here we are delighted bv the contemplation of some sofer scene, blending beauty with harmony, and tending to soothe and tranquilize the mind.
As the climax of this world's sublimities, Oanada piessuts hes stupendous cataract, " a mass of wonders tossed from the hand of the Almighty, to mock the folly and vanity of man." "The light showers of evercontinued spring-wetting the rocks, the grass, bushes and treesthe green folinge crowning and clustering about the rocky cliffs; and gently the eddying waters below, but slightly removed from the boiling foaming surge ; laving playfully, the rocky edges of the shore, and murmuring softly, as they ever again kiss the foot of the bank, and the tips of long grass hanging over, as if to woo the greeting-all this to the observant eye, makes Niagara not more a scene of striking grandeur, than of calm, softest beauty." And what a world-famed wonder, when the opposite shores of the vast gorge below are bound together by the iron bridge! "In full sight of the cataract, the surge of angry waters far beneath the mighty whirlpool, and the sullen, storm braten rodks all around, it will be an iron link of civilization between the ruling powers of the world."

The falls of Montmorency, though less grand, are neverthelrss noted for their beauty. To ascribe appropriately, the ever-varied sublime and beautiful scenery of our fondly cherished country, must be the work of her future bards-her Scotts, her Byrons and her Southeys.

While nature has lavished the ornamental, she has not forgotten to scatter with it the useful. Canada is rich in mineral producis, which must, at no very distant day, become a source of immense revenue; rendering her, to a greater extent, an exporting than an imp rting country.

When, in connection with her mineral and forest wealth, her superior adaption to agricultural pursuits is considered, who can doubt that Canade is destined to become a rich and populous country? On this subject it has been remarked, by a writer, that it is chiefly with her agriculturists to raise hpr to an elevated position in Europe, and cause her to be beloved and respected as a highly favoured country of wealth, prosperity, and merchandize. And she is constantly advancing in improvements. Where a few years ago the mighty and almost impenetrable forests stood, now resounds the busy din of trade; and while the townsand villages of yesterday have advanced to the rank of cities, new and flourishing villages are yeally springing up; and, judging from the fact, have we not good reason to predict, that ere another century shall have been numbered, when we who now admire and love our native land are gathered to our fathers, that Canada will shine as one of the first nations on the records of history, rivaling even her mother lingdom, to which she is cemented by the clusest ties of affection and government.

The climate of Canada, though changeable, is remarkably healthy ; and in point of salubrity, perhaps is not exceeded. While others are
driven by necesai's from the home of their childhood, and are obliged to seck in other lands those necesanries whichare denied them in their own country, we, more highly favoured, find our wants more than satisfied, and have sufficient, wher-by we may assast the crowd of emigrants that yearly flock to our coasts. In thas far off portion of the new world the sons of Erm, as well as of other conntries, find food and wheler, and soon forget their gufferings in their father-labd, in the smilug plenty of heir new home.

Blessed with so many and grent advantages: with n fertile and polucuve soll, which yielda nbundance: with $n$ healthy and agrecable climate; whin mexhaustable stores of minernl wealth; with water privileges, unsurpassed in number and excellency by any country in the world, in a word, withall that gratifies the taste and charms the sight, what sense of gratitude have we to our heavenly Father, whe has given us our inheritance in this goodly land, an appendage of the most free, enlightened, and glorious empire, upon which the stars of heaven look down, or the sun pours forth his cheering beams.

Our Queen, though ruling a mighty empire does not forget her far of Canadian subjects, but shares with them a parent's love; yes, and a parent's loaf. May it be her delight long to sway the secptre over a people, elevattd by religion, literature, and everything that enobles and exalts mankind, and may we prove ourselves worthy of our country and our Queen.

> "There is no other land like thee,

No dearer shore ;
Thou art the shelter of the free,
The hope, the port of liberty.
Thou hast been, and shalt ever be,
Till time is o'er."-Calliopean.

## ETDUTDIB'S WAMKIT.

## A WORD OR TWO MORE TO CUR SUBSCRIBERS.

When the remarks under our editorial head were written, we did not imagine that perverseness and stupidity could impel any person to the absurd and reckless course which Mr. Edmundson has chosen to pursue. Not satisfied with injuring this paper, and thus sacrificing the interests of others as well as his own, by every kind of neglect, mismanagement and bungling, which a man not absolutely out of his senses could commit : not satisfied with having secretely, and contrary to agreement, obtained large sums of money from agents and subscribers, and used them for his private purposes, when the paper was in debt, and could not be embellished with engravings or properly conducted for want of means, he now, after his interest has been serzed for his private debts, and the publication deranged worse than ever, refuses to return the mail books to the office of the paper! Although he was aware that the paper was ready to issue as soon as it was out of the Sheriff's hands, he locks up the books containing the subscribers' names, and goes into the country, not intending to return for a couple of weeks! That he had no shadow of right to do this is clear; one partner cannot, when he chooses, carry off the books of the partnership, and refuse the other partner access to them. If any wrong was done him, he had his legal remedy, but he had no right to ruin the partnership business, and especially when that business was the publication of a paper, which must go on in a regular manner or not at all. We are told that his excuse (?) for this outrageous procecding is, that his employer, who is about to open a store for the sale of agricultural implements, wants a paper to puff his business, which Mr. E. is to conduct, and if the Agriculturist can be destroyed, and its mail books used for the new enterprize, an important object will be accomplished!

As soon as we discovered this plot, we filed $\mathfrak{a}$ Bill in Chancery, and took out an Injunction, which we are inclined to think will spoil the scheme. In the meantime we have made new mail books as well as we could from the letters and orders in our possession. A great many mistakes will of course occur, but our readers will know the cause. So soon as we get the books all shall be made right. We think no further excuses are required from us, i.e. from the writer.If it were not that we felt our individual character pledged to subscribers, we should have allowed the paper to drop some time since, and remedied our losses the best way we could. As it is, we shall lose something more, if necessary, to give the country such a publication as we think is required.

Agents are requested to send to this office immediately, correeted lists of all subscribers obtained by them respectiyely, to whom the Agriculturist is still to be sent. Postmasters will oblige us as well as subscribers, by sending lists of subscribers whose papers do not reach them.

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## WOMAN'S SPHERE.

BY K. R. M.
Not where drums are beating,
Not where banners wave,
Not where hives are fleeting,
To the warrior-hero's grave;
Not where plumes are bending,
Above each glad young brow,
Which War's stern voice is sending
To the ranks of death below;
Not where falchions beaming,
Beneath a gollen sun,
All glittering and gleaming,
Proclaim the battle won;
Not where streams are flushing,
With a crimson.not their own,
But won from brave blood rushing,
With the soldiers dying groan;
No; the din of battle ringeth,
Unheeded on her ear;
But wild wood songs she singeth To children listening near.
Her gentle form they banish From the stern warrior-band;
Her sweet, glad smile, would vanish, With the falchion in her hand.
A speake ${ }^{s}$ s voice there pealeth, Along the pillared aisle,
$\mathbb{P}_{1 \text { ut the parted crowd revealeth }}$ On the brow no woman's smile.
No; her gentle nature shumneth The gaze of many men;
But where the rivulet runneth
In the bottom of the glen,
Where holy quiet liveth, By the sick man's weary bed,
Her tender care oft giveth Ease to the aching head.
The pale, damp brow she smootheth, Of him who soon must dic ;
And the widow's wild grief sootheth, And calms the orphan's sigh.
The sick child's restless slumber She watcheth with good-will;
And pale stars without number Will see her watching still.
The sin-stained convict needeth Her words of peace and love, And her gentle influence leadeth Fis thoughts to God above.
Her sweet, while hand, oft weaveth, For the loved, who walk with God,
A garland, which she wreatheth Across their burial sod.
To man she gladly yieldeth The sword and falchion bright,-
The banner which of shieldech In the tumult of the fight.
Thank God, 'tis hers to gladden The hearth, as best she can,
Nor does her spirit sadden To share the sphere of man.
-Mrs. Kirtland's Magazine.

## MY UNGLE'S ACCOUNT OF THE COST OF A PAIR OF ANDIRONS.

"Peter," said my uncle, knocking the ashes from his pipe, and laying it on the comer-stone of the mantel-piece, and then fixing his eyes on the andirons; "Peter, those andirons cost rue one thousand dollars."
"Dear me !" exclaimed my aunt.
"Oh, father !" cried the girls.
" Impossible!" said I.
"True, every word true. One thousand, did I say? Yes-two thrusaiderefall two thousand dollars."
"Well, well," said my aunt, folding up her [knitting for the night "I should like to know what you are talking about."
My uncle bent forward, and planted his hands firmly on his parted knces, and with a deliberate air, which showed no doubt of his being able to prove his assertion, he began:-
"Well, you see, a good many years ago, we had a pair of common olld andirons. Your cousin, Letty, says one day,' Father, don't you think those old andirons are getting too shabby!' Shabby or not, I thought they would hold the wood up as nicely as if they were made of gold. So I paid no attention to Letty. I was afraid she was growing proud. Soon afier that, Peter," my uncle continued, " your aunt took it up -"
"There it goes," intcrrupted my aunt ; " you can't get along wih-" out dragging me in."
"Your nunt took it up, Peter, and she said our neighbors could afford brass andirons, and were no better off than we were. And she oaid Letty and her sister Jano were juot gotting old onnugh to see company, and the stingy-looking old and.rons might hurt their market. I knew that women will have their own way, and there was no use in objecting, and so I got the andiro s; the price of them was ten dollars and a haif-"
"Ah; that's more like it," cried my aunt. "l thought you said two thousand dollars."
$\because$ My dear, I wish you would not interrupt me. Ten and a half. Well, the first night after we had got them, as we all sat by the warm fire talking over the matter, Letty called my attention to the hearth, the stones of which were cracked and uneven. The hearth was enturely out of keeping with the new andirons, and I thought I might as well have it replaced first as last. The next day a mason was sent for to examine it. He came in my absence, and when I returned home, your aunt and cousins all beset me at once to have a marble slab. The mason had convinced them the hearth would not look decent without a marble slab, and they put heir heads together.-"
"La, me," exclaimed my aunt, "there was no puting any heads together about it. The hearch was a real old worn-out thing, not fit for a pig-pen."
"They put their heads together, Peter, as I was saying, and continued till I got a marble hearth, which cess me twenty dolars. Yes, iwenty dollars at least. Then I hought I was done with expenses, but I thought wrong. Pretty soon I began to hear sly hints thown out about the brick-work around the fire-place not corresponding with the hearth. I stood it out for a month or two against your aunt and the grls, but they at length got the better of $m \cdot{ }^{-}$, and I was forced to have marble instead of brick. And then the old wooden man'e--piece was so out of chnracter that it was necessary to have a marble one. The cost of all his wàs nearly oñe hündred dollars. And now that the spirit of improvementhad got a start, there was no stopping place. The new marble mantel put to shame the old whte-washed walls, and they must be pa:med, of course; and to prepare them for paint, sundry repairs were necessary. While this was going on, your aunt and the girls appeared ${ }^{\circ} \mathrm{o}$ be quite satisfied; and when it was done, they had no idea the old parlor could be made to look so spruce. But this was on y a short respite. The old rag carpet began to raise a dust, and I found here would be no peace.-"
"Now my dear," said the old lady with a pleasing smile, accompanied with a par inal rotat on of the head.
"Now father!" excla. ned the girls.
"Till I got a . . carpet. That again, shamed the old furniture, and it had to be curn d out and replaced with new. Now, Peter count up, my lad: twen y dollars for the hearth, one hundred for thic mantel-piece, and thirty for repairs. What does that make?"
"One hundred and fifiy, uncle."
"Well, fifty.for paper and paipt:"
"Two hundred."
"Then fifty for a carpet, and one hundred at least for furniture."
"Three hundred and fifty."
"Ahem! There's that clock too, and the blinds-fifty more."
"Four hundred exactiy."
My aunt and cousins winked at each other.
"Now" conunued my uncle, so much far this ope room. No sooner was this room finished than the complaints came from all quarters abour the dining-room and entry. Long before this, I had surrendered at discretion, and handed in my submission. The dining room cost four hundred more. What does that count, Peter?"
"Eight hundred, uncle."
"Then the chambers-at least four hundred to make them rhyme with the down stairs."
"Twelve limudred."
"The outside of the house had to be repaired and painted, of couree. Add ivo hundred for that."
"Fourteen hundred."
"Then there musi be a piszza in front-that cost two hundred."
"Sisteen hundred."
Here aunt began to yawn, Letty to poke the fire, Jane to tarn over the leaves of a book.
"A new carringe came next, Peter-that cost two hundred dollars:"
"Eighieen hundred."
"Then there was a lawn to be laid out and neally fenced-a gervant to be hired-parties giren occasionally-bonnets and dresses at donblie
the former cost, and a hundred other lattle expenses in keeping with the new order of things. And all these grew out of those very andirons. Yes, Peter, I was entirely within bounds when I said two thousand dollars."

The opposition was now silenced. My aunt immediately rose, and guessed it was bed-time. I was left alone "tib my uncle, who was not inclined to drop the subject. He was a persevering man, and never gave up what he undertcok tall he had done the work thoroughly. So he brouglit out his books and accounts, and set about making on exart estimate of the expenses. He kept me up till after midmight, before he got through. His conclusion was that the par of andirons cost him two thousand four hundred and fifty dollars!

## SCITENCVI AND RTHCRTANICES.

## CONSTRUCTION OF LIGHTNING RODS.

A correspondent, after reading the remarks in our last number, on "T The Protection of Buildings from Lightning," says he is determined to fix a protector to ins house and barn, and wishes to know if a common blacksmith can make a rod that will answer the purpose. According to the article alluded to, an iron rod would require to be " couted with silver, gold, copper, or tin," to make $1 t$ efficient. This is too broad an assertion. The cause of int ficiency in an ion rod is oxidation or rust. Pant or varnish will prevent rust, but at the same time interleres with the conducting powet of the tod. Professor Olmstead rucommends a paint with charcoal as the base of the coloring matter, this substance being a good conductor. Copper, whech is a better conductor than iron, is ton expensive for common use, and to coat an iron rod properly with copper or silver would, we suspect, transcend the skill of a common blacksmith. An iron rod is therefore :nore likely to be tried in ordinary cases, and this a good biacksmuth may easily make. It shou'd be painted as mentioned, to protect it from rust.

A correspondent of the Albany Cultivator gives the following plain directione for the construction and erection of rods. We will only add, that the "points at each end of the ridge pole" should bcarried up to the height of eight or ten reet above the top of the roor, in accordance with the rule which has been well ascertained, that a proper rod "will protect a space in every direction from it, whose radius is equal to twice its herght." Flom the langunge of the writer it weuld not be inferred that the "points" reçuired any elevation above the ridge of the bui ding:-

As the seasen is fast appronching in which large quantities of hay and grain are to be stored, $f$ wish to call the atiention of your numerous readers to the importance of protecting thear barns by lightning rods.

It is well known that the warm vapour arising from newly filled barns, has a strong affinity for electricity, and on the near approach of a thunder cloud, places such buildings in imminent danger; but a prejudice has arisen against the use of conductors, from the improper manner in which they have generally been constucted. When not rightly made and put up, they are of no valup. In many cases they may be even worse than useless. For instance, if the points at the upper extremity are covered with rust, thev will not answer the purpose intended, becanse a metallic oxide repels instead of attracting electricity. If the lower end terminates before reaching the ground, or penetrates it but a short distance, the fluid is liable to escaje from the rod into the side of the building, which being close at hand, offers a better conductor than the air, or the dry surface of the ground.

For the information of such as may not have given attention to this matter, I will give the method of making and attaching conductors, which has been tested by experiments, and approved by men of science. They should be made of horse shoe rods, five-cighths inch square, which are zufficiently large, and being slit cold, have a rough jagged surface, affording numerous radiating points. The several pieces of which the rod is composed, may be welded smoothly together, so as not to increase the size, or joined by a hook and eye. In the last method, the hook shonld have a point left on the end, and be driven into the eye after being bent at little more than a right angle.

In applying the conductor to barns, begin at the north west comer, by inserting the rod far enough into the ground to always insure its contret with moist earth ; carry it along the gable end to one end of the ridge pole, thence along the ridge pole to the otherend of it, thence along the other gable end, and down the southeast comer, continuing it into the ground, as in the beginning, far enough to reach the moist earth. There should be a point at the eaves on each corner, and one on each end of the ridge pole, which should be covered with a conting of silver so prevent them from rasting. The rod should be secured in ito place by wooden fastenings. If these directions are carefully ob-
served, there can be but $l_{1}$ tle doubt that buildinge thes provided nould be effectually secured against destrucion by lightning, with litue trouble and at a small expense.

## NEW CARDING MACHINE.

We learn from the Newak Herald that Mr John Dagget of that place has invented and put in operation at the actablishmeut of Messrs. J. Dagget \& Son, an mproved Carding Machine in regard to which the writer temarks :-

This machine is intended to perform four times the amount of work done by the best double carding machines now in use, within the same length of time; and we can see no impeliment to hinder it from eo doing, as the machinery is so arranged that it wil card the wool and produce four rolls as easily and as quickly as a common machine produces onte. It requirce one $m$ e power for ita motion than that used to impel an ordinariy machine-it does not take up as much room on the floor-and its ex pense is but a trifle more.
The superiority of this invention over every thing of the kind now in use, is perceptible to all who have witnessed its operation; and we do not hesitate in enying, that in our opinion-as well as that of more competent judges-it is bonnd to do away uth and supplant the use of a!l other machines, adapted to this purpose, that have ever yet been made.

While it was under the course of constraction, some imperfections were predscted by different individuals, hut upon a thoro' gh trial none have been dis-overed-pverything working admirably ; and, indeed, considering the long ncquaintance and experience which Mr. Dagget has had in the business of manufacturing woollen machinery, and the reputation whi h he enjoys throngont the United States and Canada it would hardly seem probable that he would invent or manufacture anything in that line hut what would be an imp ovement, and besure to perform the object for which it was intended.

All 4 ho have any doubts as to the practicability of the abore machine, by calling at Messrs Dagget \& Son's manufactory, can examine it and satisfy themselves; and the view which will necessarily be had of their extensive establishment-the powers of mechanism therein employed -together with the perfect order in the arrangement of their machinery there, constantly undergoing the various processes previons to its heing perfected, etc-will be amply recompensed for the time and troיble this expended.

We may give some idea of their notoriety by saying that they have supplied orders to the amount of from $\$ 16,000$ to $\$ 20,000$ since the firct of Tannary lact ' As thay hava lately enlarged their establishment to nearly double its former size, they will now be more able to supply the great demand for all kinds of woolen machinery, which they constantly have from every part of the Union-and which will probably be increased to a great exent, when people once begin to discover the utility of their new machine.

Improvenent in Milling.-We have been informed that a great improvement has been made in the Water Wheel of a Flouring Mill. The experiment has been tryed in Rawdon, in this District, in a Mill belonging to Edward Fidlar, Esq., and at present leased by Mr. Wm. Baker, through whose enterprise this new wheel was introduced into the District. The M,ll has been buil' aboul two years, during which time it has been running, with what is called "Smith's Whrel," and which would grind at most, ten bushels of Wheat per hour, with about 10 feet head of water. This appeared to be :oo slow work for the spirited Lessee, and accordinglv he went to the States, and engaged the services of a Mr. Boyce of Fuiton, Oswego County, New York, who has constructed and put in operation two "New Centre Discharge Wheels," which have performed wonders such as were never, we are informed by those whose judgment in such matters is worthy of credit, before known in this country. Our informont says, that he saw 20 hushels of Wheat weighed, put into the hopper. ground and bolted in 35 minutes with one run of stone, and that there is not the slightest doubt, but that the Mill will grind from 35 to 40 bushels per hour, on an average, with each ran of stone. By the means of this new centre discharge wheel the Mill will be able to grinc and bolt 480 bushels of wheat in 12 hours, making 96 barrels of flour with each run of stone; while with the old wheel it could not have ground more than 120 bushels, making 24 barrels of flour; or, in other words doing with the new wheel, in one day, that which it would require four to do with the old one. If this is correct, and we have it from unimpeachable authority, Rawdon can now boast of possessing the fastest flouring mill in the province.-Bellcville Intelligencer.

New Invention.-Wc learn from the Springfield Republican, that a machine has been recently invented in that town forfolding newspapers and other printed matter. It is to be connected with a cylinder, or improved Adams press, so that the sheets come forth from the press, folded in the required form. The inventors warrant it to fold 3600 papers per hour, of any size, with the greatest accuracy.

Method of Distinguisuing Iron froms Steel.-Dtop a litile aquafortis on the metal; let it remain for a few minutes, and then wash it off with water. If it is steel, the spot will be black; but ifiron, the spot will be whitish grey.

## HARVEST, MARKETS, 心c.

The wheat harvest, so far as we can learn, has been safely got in throughout the province, and is a fair everage yield. Spring wheat, and especially the Siberian variety, has been very much hurt with rust. In some places it is not worth cutting. Upon the whole, we believe our farmers have little reason to complain of the produce of their fields this season. If fair prices can be obtained for the surplus they will have to spare, they, as well as all other classes, may hope soon to experience some relief from the present unexampled pressure.

Very little of the new wheat has as yet been brought to market. Buyers are not very plentiful. Prices may be ascertaned from our table below.

## FOREIGN NEWS.

Since our Inst issue events have occurred in Europe of the most starling character. The capital of France has passed through one the most bloody scanes ever witnessed even in that ensanguined city. On the 14th June an attempt was made by the ourriers or workment, the discharged convicts, theves, lewd women, and several of the disappointed and intriguing political factions, to overturn the Republic which had been established by the Revolu'ion of February. For three days the streets of Paris were red with blood; but the friends of order prevailed, and the insurrectionists were put down. It is supposed there were not less than 5 or 6000 killed, besides an immense number wounded. Prisoners have been taken during and since the insurrection, to the number of 10 or 12,000 , who will probably be transported to some penal settlement. It is unnecessary, as it would be impossible, to give satisfactory details in this paper, of these terrible doings. Most of our readers have probably seen or heard them from other sources. We may remark briefly, that the iatest accounts from Paris lead us to hope that order will be brought out of chaos, and that a strong and liberal Government, on a republican basis, will be established in France. Still, it cannot be overlooked, that there are disturbing causes at work, deep in the social organization of that people, which may result in an explusion that will involve the whole country, and shake society into its original elements.
inEland.
The eyes of the world, notwithstanding the exciting events transpiring elsewhere, are now directed towards this unhappy island. A popular outbreak seems inevitable. The Government on one side, and the people on the other, are making most active preparations for the struggle which both expect, and which, when it comes, will be fierce and bloody. It is said that the conviction of Meagher or Duffy of the Nation newspaper, will be the signal for revolt. The intention of the Clubs, which are organized all over the country, is evidently to wait till the harvest is secured; but the Government seems determined to provoke a rising before that ime. We present a few details by the America, which arrived at New York on the fth inst.

## ARRIVAL OF THE AMERICA!

## Ireland is on the eve of an outbreak.

On the evening of the 21st July, Lord John Russell announced hisintention of asking, at the sitting of the next day, for leave to bring in a bill empowering the Lord Licutenant of Ircland, or the Governors of Ireland for the time being, to apprehend and detain, until the Ist of March, 1849, any person or persons suspected of conspiring against Her Majesty's person and Government.

Abroad things continue to wear an appearance of returting tranquillity. The German Danish war may be considered at an end, and according to the most credible rumours, the war in Lombardy promiecs to terminate soon in peace. Charles Albert grows strong in Italinn tegard, for the Sicilians have conferred the free crown on his son.

France continues tranquil, and the people of Paris have called for their wonted amusements.-Assassinations have been reported, but beyond two or three insiances they have not been confirmed. General Cavaignac retains the good opinion of the people and not undeseryedly.

Lamartine has taken occasion to vindicate his policy whilst Minister of Foreign Affairs. His published speech is foll of eloquence, point and sound principles. He claims the merit of having preserved Enrope from war, and challenges approbation for successful efiorts in attaching the friendship of England. In her hands he recognizes the dictiny of civilization; and he sees beyond the operations of whig and tory, the prower above all, of public opinion.
the irisir mising-tie beacons yinneed:
A letter from Dublin, dated July 17, states that Club Organisation is daily cssuming a more alarming aspect, more secret in the mode of proceeding, but more concentrated and systematised, while branch Clubs are extending far and wide into the rural districts. The recent proceedings at Waterford and Limerick in connection with the prosecution against Mr. T. F. Meagher, have shown how difficult it is for the leaders to restrain the clubbists from a "premature ontbreak."

This may be considered madness, and it is nothing short ofinsanity; but the evil is not the less dangerous; and if some decided steps be not taken for the suppression of the Clubs, the most deplorable consequences may be apprehended.

A Privy Council was held at Dublin Castle on-the 18th, at whick the Lord-Licutenant presided, when it was resolved to proclaim the following places under the Coercion act © County and City of Dublin. County and City of Corls, County and City of Waterford, and County and Town of Dogheda.

There has been a brush at Carrick on Suir.
The intelligence of the rising of Carrick-on-Suir was received all through 'Tipperary with enthusiasm. On Monday night the mointains were all in a blaze with fires, from Slievebloom to Slievenamon, and the peasantry crowded round them in large masses. The cheering along the Waterford range was distinctly heard in Clonmel, and the Ciubs turned out to do homage to the general enthusiasm. They marched through the town in sections. The military were under arms, prepared if necessary, for repression.

The officers of the City of Dublin Clubs held a meeting on Saturday night, the 15th, Mr. John B. Dillon, President of the Curran Club, presiding, when the fullowing declaration was adopted, on the motion of Mr. Smith O'Erien, M. P., seconded by Mr. R. O'Gorman, Ir.
"The systematic efforts made by writers in the pay of the Britisir Government, to cause it to be believed that the Repeal Clubs of Ireland are organized for the purpose of pillage and massacre, and for the overthrow of rehgion and social order, render it expedient that we should define the real objects of the Club organization:- Be it therefore resolved and declared-
"That the purposes and end of our organization are the overthrow of the power of the British Legislation in this Island.
"That while we are firmly resolved to abstain in ourpofitical capacity, from any interference in matters of a religious or sectarian character, we are not the less desirous that religion should be upheld, and the legitimate influence of its ministers maintained in its integrity.
"That so far from desiring to overthrow social order, and to subject our country to universal anarchy, our first anxiaty has been, and is to secure the legislative independence of our country with the least possible injury to any class of its inhabitr- ${ }^{\circ}$; and in accomplishment of these, our designs, we hope to put an wa for ever to the sufferings and the disorders which have never ceased to afflict our people under the sway of Britain."

## POSESEETMRT:

## ARRIVAL OF THE ACADIA!

New York, Aug. 14, 10, n، m.
The Acadia arrived at Boston at half-past three o'clock, on Sunday afternoon. Slie left Liverpool on the 29 h ultimo.

Ireland.-The tune of the news is that the insurrection has been temporarily overawed. The troops are pouring into Ireland. It is supposed that there are 30,000 troops within two menaced provinces, and 5000 constables. The Habeas Corpus act is suspended. $£ 500$ reward offered fur Smith O'Brien, and $£ 300$ for Meagher, Dillon, and Dolnney. The utmost quictness prevailed at last dates. In the South of Ireland still some ouibreaks are considered inevitable. The Lord Ineutenant has issued a proclamation suppressing clubs.
Liverpool has been in great excitement, consequent upon the presence of a large number of repealers. I'wenty thousand special constables have been appointed.

Mariets.-Liverpool, July 20.-Bad weather-potatoe rot, Sec., had produced a rise-prices advancing.

Flour, 30s.; Canadian, 28s. a 29 s .
Corn-Yellow, 36s.; whic, 35s. Meal, 16 s. a 16 s . 6d. There was good enquiry at full prices.

## HOME MAREETS.

The following table gites the highest average prices at each of the threc places:-

Toronto $A$
rrel
......
Flour, per barrel .......
Wheat, per bushel .
Barley, per 48 lbs ...
Rye, per 56 lbs. .......
Oats, per 34 lbs.
Peas, yer $60 \mathrm{lbs} . . . . .$.
Oatmeal, per barrel...
Potatoes, per bushel...
Hay, per ion
Becf, per 100 lbs........
Pork, per 100 lbs:......
Lard, per lb..............
Butter (fresh) per lb..
$\begin{array}{cc}14 & \text { I } \\ 1 & 3 \\ 4 & 6 \\ 2 & 7 \\ 3 & 0 \\ 1 & 0 \\ 2 & 9 \\ 2 & 6 \\ 3 & 6 \\ 0 & 0 \\ 2 & 6 \\ 0 & 0 \\ 0 & 4 \\ 0 & 7\end{array}$
4
3
6
7
0
9
9
6
6
0
6
0
4
7

