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"Agriculture not only gives riches to a nation, but tee only riches she can call her own."-Dr. Johrson.

VOL. III.

TORONTO, NOVEMBER, 1844.
No. 11.


## THE CULTIVATOR.

"Agriculture is the great ars which every fovemment
 every lequiter into nature improve "-Dr. Jokxsun.

TORONTO, NOVEMBER, 1844.

## MONTHLY CALENDAR.

Mucre of the work of last month will still have to be continued, especially that of autumn ploughing. In the performanco of this work, when it is intended that it shall be cross-ploughed in the spring, it is advisable to expose as great a surface of soil to the action and melowing influence of the frost and sun, as the circumstances of the case will admit. The best methods of doing this is, first, to plough in one bout lands, which, when completed, would give the appearance of potato ridges; this plan will serve an admirable purpose, to prepare the grourd for a spring crop when it is tolerably clear from wild grasses;secondly, if the work is required to be expeditiously executed, it may be ribbed, by cutting the furrows double the usual width,
fand ploughing nnly one half of the ground, fof firewwod may now be chopped, to bo and the portion ploughed is made to rest, drawn hwine in the carly part of winter. neatly upen that not plinghed, and thirdly, plough early in the season, and thoroughly harrow, then before the frost sets in rib it across the furrows, each rib or furrow being about eighteen inches asun-der,-any or all of these methods may be practised with great advantage upon, strong clay sails. In consequence of the recent long pror racted drouth, much of the late sown autnmn wheat did not vegetate, 'and consequently the plants are too few in number, and sickly in appearance, for one to reasonably hope for a good crop. The injury, however, to the late sown, wheat, from this cause, has been considerable only upon the strongest cescription of clays. In all cases where the prospect \&c
of a good crop is doubtful, it is by all means desirable to prepare the ground in the autumn for spring wheat, the seed for which crop should be sown in the spring as early as possible, without further preparation of the soil than a few good harrowings.
-The cellars, stables, and cattle-sheds require now to be put in order for the winter. Negligence in these important matters will certainly entail misery and want upon the farmer. A twelve months stook

Saw lugs should be cut, tu be ready to be drawn to the saw-mill at the commencement of sledding. Every farmer should supply himself with a good supply of lumber for building and fencing purposes;and probably at no seasm of the year can this more casily be done than in the ea-ly part of winter. Cattle of every description now require careful attention. Wheat, barley, and oat chaff, should be saved and dealt out to the horned cattle daily with the other food. Calves and colts, in addition to a hberal supply of hay, will roquire daily a small portion of chopped oats, or other coarse grains or succulent food, such as Swedes, pctatoes, carrota, \&c.
Of the various other departments of rural economy that will require the attention of the thrifty husbandman at this season of the year, none is of greater importance than that of attending to the interests of the common schools. It is in the common schools that the budding genius of the great bulk of the youth of the country is first developed; and it is to the influence of the precepts and morals inculcated on the minds of the youth of the land at those institutions, that the happiness and pros-
perity of the country greatly depends.But few farmers' sons aspire to a better education than what thev receive at the common schools in their own neighlourhood; and we are sorry it add, that there are seores of young men, who delight to be called tullers of the soil, within ourown circle of acquamtane, who eshibt such an indiference for the acquisition of knowledge, that coupet mit judges would very naturallv infer that they were never within the walls of a schoot-room in their lives. If improvements in agriculture and the meclanieal arts have progressed in this country, in a less ratio than in other civilised countries, the cause must be attributed to the detective educational institutions that have been m operation. and not to the want of natural capacty for receiving instruction, on the part of the jumior farmers. Thev have been taught in the beate: track which their forefathers have sostudously travelled, and anvehng which bears the appearance of innovation upon former preconceived opinions or habits, is looked upon with a jealous eye; and hence it is that men of enterprise seldom accomplish much either for themselves or their conutry. Almost every man, rich or poor, appears to act as they carc for little else than their own selfish interests. This evil will continue to exint until the public have better informed their minds in relation to the atvantages that would result to mankind in general, were every mdivilual well mformed and in pospering circumstances. If the farming community desire to prosper, thoy must not fail to place a high etandard upon the character of theer common schools. Every youth who is preparing himself to take the place of the present race of farmers, should thoroughly make himsclf acquainted with the ordinary branches of common school cducation -orthography, reading, writing, arith. metic, grammar, and geography ; and although a thorsush knowledge of the foregoing branclies way enable a young man of sound mind and elear intellect to make a fretty god appearance when in public, and qualify him through his own future es. ertions fur the transaction of businese, still it does not follow that a farmer would not be benefted from a kimw't dge of the higher branches of the mathematucs, of algebra. seometry, surveying, trigonometre, astrozomy, geology, natural philomphy, and even rhetoric. Members of the learned professions, as they are called, are not disposed to neglect the study of any of the practical sciznces, aml we see no just reason why tho farmer who daily toils in fimproving his own estate, should not be as inteligent in all practical matters. as the adrocate, the slergyman, the merchant. or the judge.
As the evenings are now getting long, we shall have much time st our disposal fra cutering into a free and social converso with our subscribers upmn every mattor of detail that would affect their interesta; and among the rest, we shall not
neglect to pint out to them what must be done before any great and permanent change can take place in the circumstances of their cominon country. Whether the advice or suggestions the heeded or not, it will at least be of some consolation to us, that we have fearlessly, and without favor or reward, performed our duty as a pullic joumalist. In the mean tine, we would say, that you as well as ourselves, have public as well as private duties to perform; and among t'ose that may be tyled public, the fostering care and attention to the interests of the educational institutions stand foremost; and we trust that your cheerful support will be given to these nursertes of the rising generation, and that your sons and your daughters will become intelligent and unversally esteemed for therr love of hterature and public spirit.

## TO THE SUB:CRIBERS OF THE culivatur.

As the year is nearly brought to a close, we embrace this opportunity to lay before the readers of the Culuvator, a bref outline of the manner $m$ wheh we hope to see the paper in future conducted and supported. In reviewing the past, we behold a host of difficultes, wh ch but few of our year, would have surmol ted; but why should we for a moment reflect upon the past, when the future appears as bright as a summer's sun to our view. Those of our friends who have borne like ourselves, the heat and burdens of the day, in sustaining the Cultwator to 1 s present standing, will be kmd enough to receive from us our sincere and hearty thanks for therr kind offices; and as the work is beyond a doult established upon a sound and permanent basis, we trust that none will relmquish therr support, but rather and in rallying their nerghbors to the standard of agricu'tural improvement, by obtaining therr support to the only magazine in Western Canada that $1 s$ exclusively devoted to the agricultural interect. As an evidence that we are not selfish in our demands upon the public. we propose to give full value for every farthing received. Instead of increasing the pricr, we shall reduce it to Societies and Clubs. To prevent any mistake, in future, we most anxiously sohelt each of our subscribers to carefully read the following plan of operations a number of times: The second series of the Cultivator will commence in January, 1845, each number containing thirty-two pages on a sheet a aize larger than the one formerly used. Each monthly number will be invariably issued on the first day of each month. The terms for a single copy will be as formerly, one dollar exclusive of postage. As an indupement for farmers to club, to get the paper at reduced rates, we offer the following:-Eight copies for five dollars; twenty copies for ten dollars. When the papers are supplied at the reduced rates, thoy will be invariably sent to the eddress of the party ordering them; but
to accommodate parties or clubs as muoh as possible, when the number of copies ordered are to be sent to different post offices, we shall feel a pleasure in directing all the copies that are to be sent to each post office, to the address of any gentleman that may be named, by the party ordering them. Wo trust that it will be well understood that no hist of individual subscribers will be kept but those who pay their dollar subscriptions.

No credit in future will be given, ths terms being so low, that exceptions to this rule is impracticable. All remittances are expected to be free of postage to the publisher.

It is truly desirable to make the Cultivator a correct record of Canadian agricultural improvement ; and this object can best be aecomplished by anding the editor in his arduous enterprise-we mean that to further the work to the greatest possible lextent, that such of the Canadian farmers pas are capable of writug for tho press, should ard us wath their contributionsIt is not to be expected that we can afford to pay contributors to our journal, as is the practuee in old countrics, but to indemmify such as may favour us with useful practical contributions upon agriculture, we shall make it a standing rule to send a free cony to each correspondent, and pay the postage upon the correspondence ourselves.

Agricultural societies are especially invted to exert ther mfluence in circulating the Cultuator. We advise each of our present subscribers to get their paper at the commencement of the year through an agricultural society. We hope the plan wall be generally practicel by agricultural societues, of furnishing each member of their associations with the British American Culuvator, and then as it will be ably supported, it will be proportionably ably conducted.
The present circulation is between 4006 and 5000 copies, and at the end of the year we shall open a new list and shall commence a new series of volumes without a single subscriber; we fatter ourselves, however, that a mighty general movement will be made by the present subscribers to merease the list to 10,000 , and we have confidence that that numbor may be circulated with a very little effort, If it only be taken up in a spirited manner.

## HOME DISTRICT AGRICULTURAL show.

The Annual Show of the District Agricultural Soctety was held on the 9th ult., near the new gaol; and, we are sorry to say, was one of the worist exhibitions of stock that we have ever witnessed in Tor ronto. There were, nevertheless, a few specimens of animals on the ground, that could scarcely be excelled in this or any other country. A thorough bred Durham bull, owned by the Hon. J. H. Dunn,-a thorough bred North Devon bull, the property of Ruchard Gapper, Esq.; and a thorough bred Durham bull, the property
of Mr. Thomas Cosford, were all excellent animals. A number of well fed bullocks, we believe the property of Mr. T. Nightingale, were objects of general praise ; and a fow tups, and a pen of ewes, of the improved Leicester breed, the property of Mr. Jolm Cade, Whitby, were also very justly admired. The few samples of fall and spring wheat exhibited, were of very excellent quality, and especially the latter of the Siberian varicty. The quantity of hops shown were very considerable, and, in point of quality, would not suffer in comparison with the best samples imported from the United States.
About seventy farmers and others, friendly to the cause, sat down to a well served dinner, at the "Farmers' Arms." The usual toasts being drank, the party were favoured with a number of speeches, upon agricultural topics; those delivered by the President of the Society, W. B. Jarvis, Esq., and Benjamin Thorne, Esq., were heard with much attention aud applause. It was our intention to have given a report of those speeches in full, but owing to unavoidable circumstances we have not been able to spare the time required to prepare and arrange them for the press.

The cause which induced the change in the proposed arrangement of the eahibition, was not explained to our mind; but from the assurance of the worthy president, W. B. Jarvis, Esq., that his exertions shall be exerted, to establish a good feeling between the Parent and Branch Societies in the Distuict, we have still a glimmering hope that our former anticipations in relation to the agricultural improvements of this district, will be some day or other fully realized. In honour to that gentleman, we feel in duty bound to say, that he has been for some months past on a visit to England, and only returned to Toronto two days previous to the show, and that he highly disapproved of what had been done in his absence, by the other officers of the Society.

## FOURTH RIDING OF YORK agricuttoral society.

The autumn exhibition of this Society, was held in the village of Newmarket, on the 15th of October. The day being favorable, the attendance was pretty general. The improvements in stock, especially in grade Durhams, were decidedly greater than those exhibited on any former occasion. We feel warranted in saying, that the interest in the success of this association, is gradually on the increase, and we doubt not, but that the farmers in this old and wealthy riding, will duly appreciate the exertions that are made by the Society, in fostering a spirit of emu. lation in the productions of the soil.

## TOWNSHIP OF CHINGUACOUSY

## horicultural societr.

We are informed that agreeable to printed notices, which we sent to the aboyo township, that a meeting was held
at Westerfitt's Tavern, and a Society organiaed upon the same basis that the others were formed in the District. And also, that the eftendance was pretty general, and that a large list of subscribers were had on tho spot. Chinguacousy is one of the best wheat growing townships in the province, and is settled principally by English, Irish, and Scotch farmers.

The cause of our non-attendance at this meeting will be satisfactorily explained at an early period, to the gentlemen who are entrusted with the management of the Chinguacousy Agricultural Society.

## COUNTY OF HALDIMAND

agriculiural society
The first cattle show of this Infant $\lambda \mathrm{gri}$ cultural institution took place on the 4th September last, at the village of Cayuga. The day being propitious, the attendance of farmers and others favourable to the cause was both numerous and respectable, and all were scemingly much delighted with the proceedings. We understand that there are only two agricultural socicties in the Niagara District, the one under notice, and the Parent Society, each probably numbering about 100 members. This of course is highly creditable, when compared to the state of some of the agricultural societies in other districts, lut the number is trifing to what might be done if a general and systematic organization were entered into with spirit. Instead of there being only one general and one local society, there should be in our opinion not less than ten branch societics, each numbering more than 100 members; and this certainly might be accomplished with much ease if an opinion could be formed from the wealth, respectability, and intelligence of the farmers of the Niagara District. We have been informed that it has been with mach difficulty that the two societics jointly have raised by sabscription sufficient to entitle them to the annual grant of $£ 200$. This fact wucid appear strange to an individual who to well acquainted with the vast resources of the Niagara District, but when the circumstance is taken into consideration, that the benefits resulting frum the influences of associations for the improvements of agriculture, is but little known or appreciated among the great mass of the population, it will no longer appear a matter of surprise that so much indifferenco is manifested by the parties who should be the most interested in the matter. But few portions of the province present such a wide field for improvement as the one under notice, and probably nono is better prepared for a general co-operation in effecting their improvements. From our knowledge of this district, we are prepared to say, if a plan were set on foot for organizing tawnship branch agricultural societies, that the people are as well prepared to acquit themselves with credit in the management of these societies as they are in any other district in the province. As a strong proof of tho good sense of the far-
mers of the County of Haldimand, wo would make a short quotation fr m a private letter from one of the leading officers of the IIaldimand Society. "I am happy to find that our exertions in the socicty are creating quite a new spirit among many who have been decidedly opposed to us; one township in particular is setting a good example, as it has established a debating agricultural socicty. I understand from those gentlemen who have taken the lead in the discussions, that they are doing a great deal of good. At first but few joined, now nearly the whole township have taken it up with spirit. They meet monthly, at which mectings a variety of interesting agricultural subjects are most freely and ably discussed." The abora is certainly most gratifying intelligence to us, and especially so at this particular crisis, as we have resolved to looso no opportunity, in advising the supporters of the Cullivator to assist in the establishment of a farmers' club and abrary in their respective to ${ }^{\prime \cdots}$ nships or neighbourhoods. No conception can be formed of the amount of useful information that is pub. lished upon agriculture; and a very large proportion of the modern works upon the science and practice of husbandry, might be made available in Canadian gogriculture, if farmers' clubs and libra. ries were generally established. A beginning, it appears has been made, end we hope the example may be followed in every township in the province. Our correspondent has very correctly conclud. ed that the establishment of farmers' clubs and librarics, would be an excellent preparation for the general organization of Township Agricultural Societies. So fa: as the cost is concerned, they both might go into operation at the same time. An annual subscription of five shillings to each, would be sufficient for all practical purposes, if the farmers were gencral!'y tu become members of theso associations. If the Agricultural Magazine, which each member of the township sociaty would rcceive, were conduoted with that ability, that the circumstances would varrant, if township societies were generally organized upon this plan, it wauld be worth ta each member drable the subscription. In fact, if a general spirit of improvement. were infused among the agricultural class. es, it would be extremely difficult to est.j. mate the value of a journal that embodied the essence and spirit of those improvements in its columns.

Every man who has watched the progress of agriculture in the old world, must be sensible of the benefits that would follow from the universo! organization of agricultural societies, farmers' clubs and libraries, in this country; and wo trust that all who are apprized of the advantages that must follow from the establishment of these associations, will urge their neighbors and friends to join them in the laud, able and patriotic enterprise of endeavor. ing to carry these associations into opera: tion.

We copy the follow ing article from that cicellent paper the Allony Culturator.The propriety of haviag agriculturn schools, in conncetion wath model farms established in this Province, is clearly shown, by the apathy which is evincedon the part uf the junior farmore, in alopting measures for the general nupersentint ol the agrieulture of the country. This mdubtrence upon matters of so much real importance to themelves and the nation, can only be remucal ly mprosing the tastes and culnvating the minds of the rising genetation. Agriculture buing the chtef employment of the p pulation of this country, it is only rational to infer that it should be the piincipal oljeet of improvement by thnse who govern and are gen erned, by these whare ine aritud statio.. in society and those who move in humble spheres, and especially by those who are directly engaged in the culture of the soil. It is through the establithment of agrioul tural societies, such as we have frequently pointed out to the Canadan farmers, that the moving pover to the several other as. sociations requisite to secure the greatest possible amount of prosperity to the farmer and the country is to be given; and until the patriution and int lligence of the people have been drected to this true channel of real greatness, we need searcely hope that other and lugher measures wili be taken to adaner the properity of ngreculture" The whole prublem then may be solved, smply by the negative or positive answer to the question-Canadian farmers, will you aid in this great work of agricultural improvemen? It the furmer be given, then it will follow as a mate: of course, that the country will remain as it is at present, at least twenty years behind the age in general improvement. If the luthe be celund throughout the leogth and breadth of the land, then may we hope to set the c untry rise, and agricultusc take the stand which legithmately belunss to ber. No true friend ul his country can remam neuiral or indaferent to the cuccess of suchinstitutions a are calculated to develore the latent genius of the country; and probally no class of a-sucratuons could be devised, that eould be rade so avaitable to the practieal farmes, as agricultural schools and model furms-and these can only be successfully established in countrics where the people are aroused to the importance of the adrantages that wouldaceruc from a generol spread of practical and scienti-

farmers then, must first set the example. ay laying the corner stone th this great tructure, which will be humel to consiat an supporting agreuitural fublications and local and general agricultural soceties; and when the govemment is apprised that they require ait, it will mo doubt be him ally santed the w th any reasonable amount. Nothny esuh be nore congemal to our feelings than to see institutions pringuig up throughout the length and breath of the land, whe as are montioned in the fullowng communication; and every thing shall be d ne in our power to convace the Canadian ag' lturni population, that it is as necescaly that they ha suld have institutions establinhed adapt-
It their calling and circunstances, for the proper educatun of their youlh, as it 1s that colleges and universties should be established and chartered for the educa. tion of students for the lcarned professions, as they are teramed.

## AGRICULTURAL INATITUTIONS

## ny Al.FRED 7. KENNEDY

That the ignorance of true theones and muprored pro-enes ol agacutuze what plebalis in nuss sections of our country, can be radically removed onty by establi-lung agriculturat schools and colhigeses is a proposeston that recieives the miversal nssent of melligeat men. The questuon on the necessty of thee msutations.as stuled throughout the crvilized world. Uur day now manitestly is, to adert the heret plan, and then of fout it an exscation torthwith This da's is of no mean proportuons The causes of the difficulties changes and falurcs of the projects, must be well studted ere we can espect to profit sutifecentiy by therese perrence to arod the hate. That these dificultess are not invariably fatal, is evadenced in the contrued and flowhthng castence of schools, whel are widely illuminating the toil of the cultwator We propose to stetch a lew anteresung particutars of the most promuceat of these ashat ugns. They may be ausi comentiatly treated unter two heads. Tlinse wheh, to an academeal coures, monte the theory and practuce of agriculture, and those which teach agriculture only.
The Schools of the firat elow, are based upon the matazuon at Hofyyl, m Swizerland, under dhe directon of tis nowle twancer, he phalandrepte
 herary, agncultural and intermediate In additon, lectures to teachers are ammally given. The herenry school commenced by the meroduction of three cleldren moto thr family of the priacipal In $1 \times 07$ the first buidugg was erected fur it. In a frw yoses the number of professors gradually inceess id to 20 , end the pugnls to so The studios comprise, in addution to those 1 "ght in our coll. ge ${ }^{3}$, muse, dancing, fentug, anu cabinet-mak1ug. The lath gaves fachity $m$ the use of took. mencs habuts of industry, and as the product of tine stuilmis labour becomes his own, and is ge nrrally s nt home as a present, neatness of executron and fingl affection are encourared
The ubject of tho Agrecultaral School is to af-

* For an acquaintance wath thas dstungusied man and lis noble undertaking, the English render s manly indebted to Rev W C Woodbrige, Editor "Annals of Education," to Prof A D Bache, in las able teport to the Councils of Phaladelphan. on Eduration in Europr, and ta "Leviza from Hufwyl, by a Parcnt:" London, 1812 From thren authorumes we have ire.ly quoted
ford chaldren of poor parents an opportunity of acquinug an escelleat education, whilo they gain a pracucal fambarity with the most umproved forming prow fer Thy was commenced in 1808, under the mot unfavourable auppece. The chidren were of the wont possble descriptionbrought up in dalemes, they were herally takon hoa the hedges and hyhwaya. Yet by receving a fiw at the onset and slowty mercasing the num. tur as the firs became subject to the adruirablo desemme, a pereverance that nothing could daunt, has succestally estabhethed on msthation whome bene fits have excited the admiration of the trinads of education every where.
"Th" pupis are ndmitted at an carly age, thero beng. however, no fixed limits, and are expected to remam until 21 , if supported gratuitouely. By so donc, they would be enabled by their manual Labuur to repay the expens: of the:r mamtenanco und rducation, bo as to leave the institution without pecumary obhyation. They would besidesbo detaned beyond what is considered the most criural age. In practice, however, it $1 s$ found dificult to induce thas lengthened stay, the actual expediency of whech must depend to much upon individual circumstances In addition to the gratuatols puppls, othere are taken, who pay i., past or enurely for the reducation. In summer, the tima ozcupied in labor is from elght to twelve hours per day, and in instruction from two to four hours. In wimter, the amount of labor lis less, and of study more Daring the time of harvest and hay-makwhg the mastruction is omitted altogether."
In winter, the hours not devoted to the caro of catte, threstung, and other furm labour, are cmployed in the agricultural machue shop an making bashots, straw mats, in selecting seeds, and in breaking stone for repairing roads. The pupils are encouraged to labor on their own necount.Lach has a small portion of land for the culture of vegutables id ilowers, the protits of which are kus own.
As an example of moilental instruction, wo subyoin the following -
"In layng out the fround for different crops, for planting, or for spreading manura, care is taken in determinngg tha points, in drawing tho ines paraltel, in ineasuring the distances, and tho intrrvals of the plants with the eyc or by paces. The number of plants or heaps of manure is calculated, and the whole iz a lesson in geometry and arithmete, as well as an exercise of accuraey and foresight."
"In cutung the trenches for watering an artifical meadow, the level of different portions is observed by some; others trace the lines in such a manner that the water shall perform the circuitous route necessary to supply the whole of a given space wathout descending below its level; and and others sull place the sluices nccessary to prevent execss in on part or deficiency in another. All the e operations are practical lessons upon tho laws of pravitation, and are often employed in tho most striking mamer to lead the pupil to the oxistence and influence of this zuiversal agent. If the pupits are engaged gatherng the stones out of the fields, these become the sabjects of examination, first in reference to colour, hardness and texture, then the uses to which they are respectively applicable, and finatly thers name, either in the moments of rest, or in eome of the lessons of the day. The mstructions thus recelved, are recalpd almost involentarily at every fresh operation of the samis sort; and sach nasociations serve to divest this lowest of agricultural occupations of its purely mechanical character."
"If they are clearing the ground of weeds, tho name, charactenstucs and qualhties of each one aro made the subject of remark. The relative effect of sun and air and moisture and cnltivation, upon these plants and those of a useful nature, is necessarly brought to wew by the observation of tho pupil, and by the anstructions given hum, and anferences are then drawn as to the best mode of exterminating them."
The intermediate school was established to mupply an eduration for the cons of the "middling clasege," in a style correspondent to that of tho parental toof. Free from the ciare and show that
frequently attach themselves to boarding schools, and give the pupils fonduess for fashion and extravagance that ill comports with home notions. Farm labor, however, forins no part of the cource.

The success of Hofwyl led a number of wenlthy friends of agriculture in the north of Ireland, among whom was Earl Spencer, to project a simslar establishment there. This led to the Institute at Templemoyle, six miles from Londonderry,Believing that similar benefis would necrue, it was proposed, as at Hofwyl, to establish both a Literary and an Agricultural Collcge" This was abandened after much expense had been incurred, and the energies of the Company directed to the latter. It is not, however, a school for special instruction, since the English branches and mathematics are taught in connection with the principles and practice of agriculture 1'upils are received from 15 to 17 years of age; and three years are considered sufficient to cumplete the course. In 1837, 66 young men were preparing themeelves for tho thorough management of farms. The aunual charge for maintenance and tuition, (obout $\$ 50$ ) is no. sufficient for their support. For convenience the pupils are divided; onc half being with the teacher, the other in the fields, thus working and studying altemately. Ten hours a day are thus appropriated.
"The direction is vested in a committec of the subscribers, each of whom pays $\$ 10$ per annum, and who alone have the power of proposing pupils. The immediate control is divided between the Agricultural Master or farmer, who regulates the agricultural affairs, the School-master, whodividal the time of pupils with the farmer and the Mintron who has charge of the domestic cconomy of the establishment, under the direction of the farmer and instructor."
The school at Templemoyle is a most gratifyang example of what may be done by a few ardent friends of the farmer without Tregislatice aid. On a farm of 150 acres, and with a system whose details are marked by great simplicity, an instutution has been formed of the highest practical benefit. The advantages derived during the 27 years of its existence, have enlisted the entire community in its favor; and seldom have wo beenmore gratified than in hearing the encomiums passed upon both school and pupals by former residents of the neimh-borhood- $a$ gratification of course mainly derived from the anticipation that thus encouraged the farmers of oar beloved couniry would be quick to fornish their own sons with similar instruction bese.

Class 2d. Schools for special instruction.
As an example of what has been done, and shall we not say, may be done? when Agricultural Societies, aided by govemment exert thenselves,"The Agriculiural Institute of Wirtemburg," is well deserving a notice. This was founded in 1817 by the Agricultural Society of Wirtemburg, under the patronage of the king, who devoted a rayal seat with extensive buildings to the purposes of the Institution. There are two departmentsin the higher, the object is less the acquisition of manual dexterity in the operations of agriculture, than the knowledge required to superintend them, -while in the lower, the practice is the chiefend. In the higher, for tuition, natives pay $\$ 40$, foreıgnon $\$ 120$ per anuum ; and for menls, \&c., paid in adrance to the stemard, $\$ 40$. In the lower, nacives are admitted gratis, if their circumstances require it, othervise $\$ 40$ for three years The officers are appointed by the Agricultural Society. The Director is on Insiructor, there are also a Ticasurer, four regular and four extraordinary Professors, besides an Overseer and Steward;number of students in 1837 was 99. Applicants for admision must be 17 years of age, and possess the necessary qualifications for the prosecution of the course. The pupils of the lower school are

* To estabish the schools, one hundred and sixtoen shares of $\$ 125$ each were subscribed by different Companies and individuals, and 86,000 maro trubsequently subscribed for the crection of the buildings at Templemoyle. Various other donations have been made - [Bache's Report
engaged in operations on the farn, garden, \&c. -receive mstructions, aud are paid for work done, by which they are enabled to defiay the expense of mamienance. Those who dasplay great skill and industry, receive jremaums.

The agricultural course of the higher school gencrally requires two years. The same period 19 required for that of forestry.

Branches of special theoretucal instruction.-

1. Agriculture-General principies of farming and horitaltare, meludag the cuture of the vine, the breeding of cattle, growing of wool, reanng of horses, raising of stl worms, armagementand dsrection of farms, estunation of the value of farms, book-kecping.
2. Forestry.-Encyclopedia of forestry, botany of forcsis, culture nad supenatendenct of torests, guarl of forests, huntang, taxation, ascs of furests, technology, laws and regulations, accounts, and teclancal correspondence relating to forests.
3. Accessory Brauches.-Veterinary art, agricultural technology, espectally the manufacture of bect sugar, brewing, vinegar making, and distilling. The construction of roads and hydraulic works General courses:
4. The Natural Sciences.-Gcology, physiology of plants, bstany as applied to agricuiture and forestry, natural history of animals beneficial or noxious to plants and trees. General chemistry, and its applications to agriculture, physics and metcorology
5. Naticmatics.-Theoretical and practical geonctry, elements of ingonometry, anthmenc, elements of algebra.

The fann of 960 aeres is thus divided: arable land, 501 ; meadow, 242; fields set apart for experiment, 33. wood land, 13. nursery, 67: hop plantation, 2: botanical garden, 14 ; ground for pupils in fiowint, 2 , garden, 1 , utherwase appropriated, 85.

For the further advantage of pupils, the arable land is cultivated according to five different rotations, a large stock of caitle of different breeds, foreign and domestic, and of sheep are kept; agncultural implements are made in a work-shop attached, collections of seed are made for lectures and sales-useful seeds are distributed throughout the country There are collections of soils for analyses and lectures, philosophical apparatus, hbrary and laboratory , aiso a cider press, bect sugar manufactory, brewery, distullery, and vinegar manufnctory.

We have already extended this article much beyond our intended limits. We have written, that the reader knowang what has been done, may be the better enabled to form a tangtule sdea of what he should assist in doung, $x 2 z$. blessint our country with like Institutions
Philadelphia, July, 18-1

## CANADIAN MANUFACTURES.

The !ong-lonked for perind has at last arrived, that the capitalists of this cuuntry are turning about in their mind's cye to discover other channels of investing money than locking it up in wooden or brick walls, in the purchase of large tracts of wild lands, or even in the importation of such articles from the Cnited States as may be successfully and profitably manufactured in this Province. As evidence of the change that has taken place in the sentiments of the public upon this important subject, we would mention a few facts that have lately came under our ob servation, which are trifling in comparison to the numerous other instances of a similar character, that no doubt might be adduced. One of the most extensive im. porting merchants in Toronto is now making arrangements to engage largely in the manafacturing of woollen cloths, blait-
humself to meet a considurable proportion of the demand in these articles, in tho courso of the next season; other mer. chants are alsu cnibarking a large amount of capital in the same busmess. In addi. tion to these, wo know of three gentlemen who inany years sinco retired into privato life, after accumulating large fortunes in their respcctive prufessions, have several. ly associated ther capital and names with partics who are already to a limited ex. tent in the manufacturing business, and who are among the most clever practical inechanics in the country; and from their juint influcnce and exertions, calculate to furnish as good and as cheap an articlo of strong woollen gonds, such as are adapted to the circumstances of the country, as can be purchased elsewhere, for this market. A company is leeng formed at Sherbrooke, C. E., to carry into operation an extensive cottun factury esiablishment, with a capital of $\$ 25,000$, in shares of $\$ 100$ each,-the machinery of whel is to employ 1000 spindles, capablo of turning out 300,000 yards of cotton cloth per annum. In adlition to the fororoing, there are numerous other estab. lish. aents of enterprise in progress in various parts of the Province, for the manufacturing of almost every necessary articlo in domestic use. The Canadian Farmers and mechanics should hail such informa. tion as this as an harbinger of better and more prosperous times; but the ultimeto cuccess of nearly all the manufacturing enterprises of the country will greatly depend upon the manner in which they are sustained by the productive classes. It is in vain to properly direct capital and skill in the production of an article of domestic manufacture, unless the merchants and the buyers give the preference to the home-manufactured article to that of all others, provided it can be purchased and affirded on nearly as liberal terms. It is all very well to luave a foreign market upen for the surplus staple proluce of the country, but to ensure success to tho varous farming operations, we require a remunerating market for other than export articles, which can only be furnished us by encouraging and efficiently sustaining manufacturers, who are as great producers of wealth, in comparison to tho extent of their business, as the agriculturists themselves. It therefore behoves cvery true lover of his country to carefully guard the interests of the manufacturer as well as the farmer. It is obvious that a considerable rise must take place in the price of wool as soon as the woollen manufacturing establishments that are now in progress are completed. The price that the article is worth depends very materially upon the quality of its staple, and the care which is bestowed in preparing it fur market. Leicester wool will probably be worth from 13. 3d. to 1s. 6d. per lb. ; South Down from 1s. 6d. to 1 s .9 d. per 1 lb ; and Merino and Saxop from 1s. $10 \frac{1}{2} \mathrm{~d}$. to 2 s . per lb. The above range of prices is nbout 20 per cent less
than the woollen manutacturer of Massa. chusetts pays for the qualaties mentioned ; and we have noticed a number of reported instances where large lots of inng worl had been lately sold for 30 cents per lb., rand the finest qualities $0^{\circ}$ Saxon for 65 cents per lb. ; with these prices (the production of the new tariff,) the American farmers have been encouraged to encrease their flocks of sheep, and improve the quality oi wool to that degree, that she p-lusbandry in whole sections of country has become the principal depend. unce of the darmer. The pricec which we havo supposed that wool will tie worth in this couatry, in the courso of another year, if realised, will remunerato the wool-grower to a much greater degree than any other branch of husbandry.With these prospects in view, it is to be hoped, that the Canadian farmers are abundantly intelligent to properly appreciate and cnjoy every advantage that can be gained from having a profitable and permanent market cstablished for their wool.

We copy the folwing article upon manufactures, from lis Sherbrooke Gazette, which, if carefully cad, must have the effect of convincung ever candid reader of the propriety of zivig every reasona. ble encouragement to domestic manufactures. It may be argued by some, that by establishing extensive manufactories, wo are injuring the trade between this and the mother country, and thereby causing the interests of the parent and child to clash; this argument, however, will be found by crperience to be falla. cious. When the Canadian population think proper to resolve themselves into a partially manufacturing population, then, and not till then, will they make the most of the great natural advantages they so liberally possess. It is nonsense to boast of the agricultural resources of the country, when those resources are shackled for the want of a profitable market fur the produce of the soil. $\Lambda$ market is now opened on the most liberal terms for the staple articles of this colony; but it frequently happens that the prices for breadstuff in the mother country are so low, that they have to be sold here at rates that scarcely remuncrate for the costs of production. This should not be a matter of complaint with the colonists, so long as their surplus produce is admatted anto the British markets upon about the same conditions that British manufactured goods are brourght into the colony; but what we object to is, that there is no permanent marlert for the various other artucles of form produce that cannot be profitably exported out of the cnuntry. This market can alone be sreured to the people of this country, by encouraging domesta manutircures When the period arrives that efficient means are taken to concentrate much of the almost worse than idly employed capital of the country into the frection and employment of manufactusing extablisliments, -and when the Cana.
dian pepulation have becomo satisfied that it is to their interest to encourage men of enterprise to embark their capital and their skill in the bu-iness, then, as a natural consequence. manufacturing towns and cities will spring forth as it were by maric, and the agriculturists in the surrounding districts will obtain remuncrating prices for overy deseription of articles that the chmato and soil of the country will enable them to produce.Canadian farmera, look at this! In trading the short periud of nine years with your neighbors in the United States, you have incurred a loss to your country of upwards of tuenty-tteo milhons of dollars, or at least the balance in trade has been that enormous amount against you. Now it is as clear as noon-day, that of the $\$ 42,000,000$ of capital that the rocky, barr $u$ State of Massachusetts has actually comployed in manufacturing, that a considerable proportuon of which has been drawn from the British Provinces in the shape of profits on manufactured goods-and fir what? to drain your pockets of your hard earnings, and to enrich the United States farmer. Will this state of things be any longer tolerated by the strength and sinew of this country? With these starling facts stariug them in the face, will any remain indifferent to the success of the manufacturing interests? or will any be found so short-sighted as to fancy, that by embarking capital in manufacturing, that just so much is diverted from its leqitimate channel?We leave these questions to be answered by our intelligent and numerous readers. In order that the country in all its departments should loursh, the expenditure must be kept within its income; this argument applies with the same force to a nation as it does to an individual. When this subject has been fully and impartially investigated, it wall no longer appear strange that our amount of floating capital is so limited, or that there are so many borrowers, and so few lenders of money in the country. The reason will also appear more obvious why improvements in agriculture and the mechanical arts have progressed to a less degree than in the United States; and when correct notions are held in relation to these important matters by those who have influence and capital, we may then reasonably hope to see Canada become what she might and ought to be, tho "brightest gem in the British crown."

From the period that the present high tariff of the United States came into force, there has been a constant stream of capitalists and operatuves from Europe, flow ing into that country, who have very materially aided our enterprising neighbors in carrying out very many of their enterprises. Manufacturing houses in England have erected branch establishments in the United Stafes, with capitals 1 arying from $£ 10,000$ to $£ 50,000$ each ; and the dividends upon those capitaIs may be ima. gined from the fact, that it is common in
that country for joint-stock manufacturing companies to declare annual dividends of fram 15 to 20 per sent upon the lona fide capital invested. This fact is well known in England; and it is only reasonable to suppose that the unemployed capital of the old world fould seek the safest and best market in the new.
It appears that the proper time has arrived for to discuss the important subject of domestic manufactures; and as this branch is so closely allied with agriculture, we shall deem it a pleasure, as well as duty, to express ourselves freely and candidly upon every point that has a bearing upon the manufacturing interests. In doing so, we shall endeavor to be offensive to no party-our sole object being to aid our fellow-cotemporaries in the development of the vast resources of this fine colony. In the meantime, we cravo, on the part of our subscribers, a careful reading of the annexed ably written and highly instructive article.

## manufactures.

## (From the Sherlfooke Gazette.)

Within a few years, a powerful impetus has been given to the enterprize of Canada by means of mitems improvements and the establishment of manufactures, and it is now understood by intellhgent men that these are the great engines whech brag into active operation the resources of the country, and ought consequently to bo its o6tablished policy.
The establshment of manufactures in Canadar would introduce a system of ceonomy, which would be approved and adopt d, and keep the expenditure of the country within its incoine ; and lay firmer and broader the foundation of our commerce, by increasing and diversifying our productons and the objects of exportation, and thus onlarge the conmercial capacity of the nation.
The following statistics, connected with manafactures, (taken principally from Hunt's Merchant's Magazine,) will show the importance of thas subject to the people of this Province.
The United States with $\varepsilon$ consuming populatior of nearly $18,000,000$ have 1,240 Cotton Factorien, and a capital invested in the same, to the amouns of $\$ 51,102,359$, giving employment to 75,000 persons and yearly manufacturing to the amount of $\$ 46,350,453$ in value. She not only supples her home consumption, but exported ir 1842, to foreign markets, manufactured cotton goods to tho amount of $\$ 2,975,5+1$
The population of Great Britain in 1841, was 26,857,028 the most industrious and weality netion in existence. The cotton interest in England, is as follows-Capital invested, $\$ 247,500$,000 , annually manufactures $\$ 190,000,000$ valuo, and employs $1,837,000$ persons, and the great outlet for cotton goods, is through her enterprize, intmense capital, and colonial possessions. In 1831 England exported to her North American Colonies $15,618,061$ yards of cotion goods. in 1830 , 24, 139,602 yards, and to the British West Indica in 1831, 21,975,594 yards, in 1840 58,327,100 yards cotton goods. In the two first quarters of 1843, England exported to her different colonial possessions, $137,560,032$ yards of cotion goods, 40 per cent of which went to India and China,
The following shows the Imports and Export between the United States and Canada, ns taken from public documents at Washngton, from $183 \%$ to 1841. The exports from the United States 10 Canada were $\$ 40,645,643 \cdot$ the imports to tho U S from Canada were $\$ 18,480,234$ leaving an excers of exports from the U. S. to Canada of \$ $22,162,309$. At Toronto, Canada West, the imports of American manufactured cotton goods from the 6th to 25 th of July 1843, were 930 pack. ages, the duties of which amounted to over $\$ 3090$.
The value of Britigh Cottons, Woolen, Lires
and Silk Manufactures that found a market in Canadn from Englnud between the years 1832 and 1839, as taken from offictal documents, is as follows: Culton goods, $£ 2,630,960$ sterling, Lin-
 919,028, a yearly average of cotton goods $\mathbf{t 3 2 8}$,870 or $\$ 1,461,644$; $81 \mathrm{k}, \mathbf{5 5 8 , 1 2 3}$ or $\$ 258,334$; woollen, $\mathbf{5} 239,878$ or $81,066,120$.
The total amount of exports from England to Canada from 1832 to 1839, amounted to 112 .886,933 sterling; during the sume time Canada exported to England $x 7,844,411$ sterling
The Cuty of Boston exported manufactured cotion goods to the East Indies, Sandwich Islands, North West Coast, and South America, from the firat of January 1843 to October 318t, 18.13, to the amount of $\$ 1,124,898$.
The consumption of cotton goods in the Canadas is rapudly on the mercase, and any material advance in the existing prices of raw cotton in the United States, must arise from over issue of carrency, or speculative operations, and consequently cannot be maintained. Taking the future prices of cotton suitable for manufactunng three fourtus of all the cotton goods made in the U. States, to range from 6 to 9 rents per pound, lald down at the Factories, the articles of heavy grey cotton, cotton drills, cotion duck, negro cotton, cotton yams, \&e. \&c., can be manufactured in Canada chenper than in the United States or England.
It is admitted, that there is a difference in the cost of the raw cotton of one cent per pound, in favor of Canada over England, taking into consideration the difference of freight, duty, and commissions on sales in the two countries.
By manufacturing in our own Province, with such an abatement in the price of the raw material, as compared with the price paid for it by the British manufacturer, we should be sure of the home market for the coarser cottons, without any further protective duty, and also be able to supply the Sister Provinces and the Britsh West Indies, With cothun fabrics.
With all these advantages in the cost of the raw cotton, together with our superior natural advantages of water power and cheap labor, saving of duty, and shipping to other Bntish ports, it does appear that Canada has the abilty to suceeed in this branch of business beyond England or the United States; and were she to become a manafacturing country, a few years would place her on an equal footing with other nations in manufacturing.

With these facts, any thing like fair competition in cotton goods manufactured in our own province, and those imported from England or the United States, is quite out of the question.
In the U. States the manufactories are usually active, and they have heavy orders for the East India Market. This, with the active demand for her home consumption, will do more to advance and eatablish the prosperity of her factories, than any additional tariff Congress could grant; and her trade for articles of domestic manufacture with foreign countrics is $y$-arly on the increase.
The manufacturing of cotion goods in the $U$ States commenced in 1816. Since then, the prices have been reduced on an averaze twothirds; it is scarcely possible to name an article of home manufacture, that has not been cheapened and this too in the madst of ancreased waycs of labor, and high prices of agncultural products. No country is more favorably situated for manufacturing than Canada.
The freedom of its institutions, must naturally bring into actuve operation the enterprise and talents of her citizens.
It is a well known fact, that the frontier townships are almost entirely supplied with grey cottons from the United States, because the Canadian Merchant can purchase this description of goods cheaper in the U. States than an England; and that the coarser cotton goods, such as are made in the Unted States, rival the manufactures of Great Britain in the Canada market.
Since then we cannot consistently secure to Ensiand this bramch of hor trade, we should by
all means aflord every facility for making it an object of Colomisl indintry.
Mnssaclusetts with her 737,000 population, has a capital invested in manufactunug of $\$ 42,000$. 000, and annually manufactures over $\$ 80,000$,000, and yearly mports the products of other States to the amount of $840,000,060$. Thus shows how she encournges and protects the labor of her own people and promotes a free interchange of commodities between the different States.
The Merrimac company at Lowell, have recently declared a semi-annual dividend of 10 per cent on a capital of two mullion dollars. The Lavrence company with a milhon and a half dollars capital, 10 per cent also the Boot, Low. cll, Suffolk, and Tremont Companies, cach declared the same dividend.
Lowell, (the Manchester of America, twenty years ago sontamed only 200 inhabitants ; now, it enioraces a population of 30,000 : the capital invested ii $\$ 10,500,000 \cdot$ number of operatues 10 .000, of whom 7,000 are females. the average monthly wages are 8170,000 , and they ycarly manufacture $\mathbf{~} 3,833,400$ yards cloth.
By becoming a manufacturing people, we create within ourselves domestic industry, and furnish to a certain extent, what we have hitherto purchased from abroad; we increose the productions of labor by diverting a portion from pursuits nircady overstocked, to other more valuable cmployment, and thus develope more fully the resources of the country, adding at the same time to the value of our own labor, precisely in proportion as we diminish importation.
In this country nothing has been done in the manufncture of hosiery or any of its branches, neglected, seemungly as unworthy of natice, whle in other countnes it has been consdered one of the most important branches of there multaplied manufactures, and is sought after as the salest and most lucrative mvestment; ns for mstance, take the large estabishments at Nottingham and Leicester, employing some 40 to 50,000 Knittung Looms, and a capital of from $£ 50,000$ to $£ 2,000$.000 each. The larger number of propnctors of these establshments or their fathers before them, were once but poor workmen, working with ther own hands, have made these uhmense fortuncs by the manufacture of hosiery. It is a fact that all the Kminng Machunes in Europe an conductcd and worked by hand.
The nations of Europs are more or less cngagcd in the catture and manufacture of silk. France more than uny other country derives her power and resources mamly from this brinch of hicr industry; her example has unduced England, Holland, Germany and Sweden, to engage, with zeal in the same pursuts. The expense of manufacturng silk in Canada, would not be more than in Europe, as the state of socicty here 18 woil adapted to promote the successful manufacture of silk, as it is an employment in wheh females and children may be honorably and profitably engaged. Between the years 1821 and 1828 England imported $24,157,568$ pounds of raw sllk, which when manufactured, was worth $£ 120,770,580$ sterling, or $\$ 536,222,237$, making a yearly averagc consumption of silk, of $£ 15,096,322$, sterlung, or $\$ 67$,027,779, of which England does not raiss one pound of the raw material, and gives employment io more than 400,000 people. The raw sill could be taken from custom house bond in England and brought to Canada at a small cxpense.

As regards local and sectional considerations, the great variety of interests in this our widely extended country, is not overlooked; but very justly determined that the protection and prospenty of each section is the protection and prosperity of the whole country We should go upon the assumption that national and personal ceonomy are bused upon the same principles, and that natoonal prospenty $2 s$ but the aggregate of indiv. dual prospent, The United States in 1842, raused $441,829,246$ bushels Indian Corn, and the commercial documents show that only' $1,684,000$ hushiels wero sent ont of the country, ledving more than $410,000,000$ for homo consumpton. The
ituprtance of $n$ home markes will-appoar from the fact that the New England states, the Amoricnn neat of manufartories, consume amnually beyonil their own productions about 7,000,000 bushels whent, which is about 500,000 bushels more than the average export from the wholo country for the last five years of grain other than whent, Massachuretis and Rhode Island consume of ather groin growiag statcs to the nmount of $3,675,000$ bushels, which is neatly three tinies the amount that is yearly sent to a forcigu market Massachuseus alone annunily consumes the products of the other etates to the nmount of $\$ 40$.000,000 , which is equal to one half the annual exports of the products of the United States oxclasive of manufactured articles. In the United States $1,000,000$ of her population are engaged in the various branches of mannfactures. All theso are consumers of ment and grain, nad this market is worth more to the farmers of the Middlo and Weatern States, than all other markets in the world. If she were to estumate the value of the products of the soll consumed by them in bo but 123 cents per day each, it would in a single ycar amount to $\$ 182,500,000$ It is estimated that the manufacture of Iron alos:e annually concumes nine millions of the agricultural products. The total amount of capital employed in manufacturing, mining and the mechanic arts, in the United States, is $8100,000,000$, nad $I$ haro no hesitation in saying that this sum thus investod has increased the value of real estate in that country vastly beyond that amount.
The price of land and of agricultural products. depends much upon their proximaty to markos. Go through the country, and you will sec land of the same intrissic value selling for agriculural purposes at prices varying from $\$ 2$ to $\$ 200$ por acre, when the main consideration affecting tho price is, their neamess to a market. Wherever manufuctures, nnd the mechanic arts fleurish. there is a demund for agrieultural products at romunerating prices, so that the cultivators of tho soll receive their full share of the bernefis by tho operation, and whenever a village springa ap from manufacturing or other causes, the price of land is increased for miles nround, and the farmer finds a market for the prodection of his soil near le:s own door, and not only do the great staples of agriculture increase in value by this home market, but a housand nameless articley, assume a value unknown before. A market in a manufacturing datruct, at home is nikfings more suro than any foreign market, the dernand is constans and to be reled upon, whereas the foreign mankot 18 always uncertan. In fact the whole faco of the country becomes changed, and the population are thriving, industrous and happy.
This recapitulation of the advantages of Canadn for manufacturing purposes, and alko calling into active operation her natural resonices, domand the especial attention of her politicians and captalists, and although it hes been reproachiully observel, that in Canada, the arto, manufactures. \&c. were half a century bchind the age, yet still tho spirt and energy of her people have either heen misunderstood ur pervested, and it remains to be shown, that an the full derelopment of both, thag have only been waisug a suitable opportunity.

An catraorilinary Durham Milker.-Mr. IIewer, of Charlton, near Brackley, Nor. thamptonshire, has a cow from which was made ninetecn and three quarter poinds of butter last week; the cream shimmed but twice, without second butter. It is supposed ly compctent jndges that this cow will produce twenty-four pounds of butter a week if second butter is churned. She is of the Durlam oreed, and a remarkably fine beast, six years old. Her feed is grass and a litte hay onfy! She gives cight gallons of mili per day:-Northamplon Ficrald.

CULTIVATION OF FRUIT -No. IX.
Thi Phm.-These who have seen only the common varieties of the plun cultivated by farmers in this stute, can have but a very improfect ilta of the thaver and exechence of the mont iuprosed varicties. When the same labor in culturation, with a litto additional care in pro. ouring fine sorts, would whord the vea bect fruit, it is to be regreted that nimety nine hunitredthe, or crea more, of the fruit cultivated, should be scarcely fit for cating. To facilat in procuring botter, the following li-t, with rewarks, is wen.

White Prinordian, Early lellou, or Jaunc Hatide, is one of the very earle of plums, ripening generally in wevtern New. York about the midule fithe st venth month, (July, and is chiefly valuable on this acc sunt. It is a sumall yelios fruit, a good bearer, with a sweet taste, though not lirst rate. It appears to be the best plum at the season.

Wilmot's Early Orleans.-This is a largefine fruit, ripening early in the cighth month (August.)

Green Gage.-This is generally admitted to be the fineat of all plums, the genyine fruit is of medium aze, and round; the stalk half an inch long, a little bent, and inserted in a small funnel-shaped cavity; the shin is yellowish green, when fully ripe necrly yellow, mollich with rus. setty red near if stem; ne h melting, separating imperfectly from the stone, juicy, sugary, and of exquisite flavor. There are many varieties cultivated in this State un ler the name of sireen Gage, which appear to have originated from stones of the genuine varicty, but are greatly nferine in fluw . There are other rieties of a small grean plun, scarcely worth cultivating, which are frequently found in the gardens of our farm. ers, and are also denominated the Green Gage, though they no innere resemble the gnnuine fruit than the will crabrescmbles Sur finest varicties of apples.
Prence'sImperialGage vasobtaincd from the seed of the Green Gage; the fruit is much lerger than that of the Green Gage, and the tree very proluctive. Manning says that this is "the mit productive and profitable of all plums." Krnrick says, "a single tree of this varirty at Charlestown (Mass.) owned by S. R. Jolnsinn, has for several successive ycars yiclded crops which were sold at from $\$ 40$ to $\$ 50$ per annum." Some tries in western New-York, called by this name, are not genuine.

Oilcans.-Fruit nearly round, middle sized or ratner large, skin reddish purple, flesh yellow, firm and good, spparating freely from the stone An excellent fruit. ripening about the time of the Green Gage.

Giffords La Fayctlc, figured and de. icribed some years ago in the Genesee Farmer, was obtained from the seed of the Orleans, and is an excellent fruit, remarkable for the sichness and sprightliness of its flavor.

Ihuling's. Superh.-l'ruit very large, offen two inches or more in leneth, not inficior in richuc.., but more acil than thel ircen (iage-otivery vigorous growth, and of extraordinery ricellence.
Wa 'lughon-Fruit oblong, larve, orange vellos, "ith a tine blubli nest the sun; ileh yellow, firm, sheet, and excellent. Thoush the thavor of this is inferior to that of onfe ofler wriction, it is highly coteemed as a first rato plum. Rigens about a week later than the Orleans.
Inperatrict.-A good plum, ripening in in the thin month (Oct.) One of the be at lato plans.
Cor's Goldia Drop. - Fruit of iargo size, sisingolden yellew, spoted wath rich red nest the sun, theoh yellow, sweer and delicious. Like the preceding, slightly neched nest the sem, a clingine, aml a grat bearer. The pest lote phum. The iriter has measured them more than $2 f$ inches long.

The Eigr Plun, or Iellovo Magnum Bonum.-Is a sery large plum, of a sweet agrecable flavor, but as the texture is rather coarse, is chiefly used for cool. ing and preserving. The same remark applies to t $a$ Red IIagnum Bonum, which is harsh and acid. These two are admi. red as table fruit where finer varictes are unknown.

The plum is propagated by budding or grafting. The former can only be succesufully practiced on the most thrifty tocks.
The principal enemy to the plum is the Curculio. This is a simall msect wach an elongated thorax and head whel resem. bles a probosers ia appearance. The whole insect is not more than a quarter of an inch long, of a darh l,rown colur, the sheaths covering the wings, slightly variegated with lighter colors, the boly resembling in size and appearance a ripe hemp seed. About the timo the fruit attains the size of a large pea, it cummences its work of destruction. It makes a small metsion in the young fruit and lays its egg in the openiag. Its presence may now be perceis by evamination, as theve crescentshaped incisions are kry casily seen. The gg soun hatches moto a small white wurm, which penctrates deeper end feeds upon the fruit, causing it to fall prematurely to the ground, or if it ripens, it is unsuun! and gumany. The wurm, when the fruit falls, makes its way into the earth, where it remains through winter, as is supposed in the pupa state, to be transformed the succe ling spring into a perfect insect and thus to perpetuate its race. Several expedients have been proposed and trien, to destroy it or prevent its ravages. The easiest and most effectual is that of confining a sufficient number of swine with the trees, to eat all the injured fruit which falls, in doing which, they destroy the worm befr"o it can escape to the car th. The cropo t. $e$ succeeding season will of courso escape. When this has been pursued perseveringly and thoroughly, it has proved completely suc-
cesuful. In one instance known th the waiter, the plum trees bore well for se. ventern succecsive yras. To render this opration casy ani effectual, ell trees which are liabhe to tho attueks of tho Curculin, should bo planted separately, on that they may to crelased apart for the confinemelt of the swine, which if permith to ange tho whole orchard would not do the work so effectually.

But swate camnot alwayy bo admitted, and it is also desirable to preserve the iruit of the present season. In this case, the best remody is the following. Spread whito sheets under the tree, and jar it brishly. Tho insects immediately drop upon the sheet, and remain motionless a few seconds, during which time they may be destroyed by a pinch of the thumb and finger. While lyng upon the sheet, they are not readily distinguished -by an inexperiencel cye from the withered blossoms. The operation should be repeated twice or three times a day so long as they remain. Ihis remedy rarely fuils if thoroughly and unremittingly pursued. The importanco of jarring the tree strongly, will be perceived by the following statement of a correspondent in the Genesee Farmer in tho second volume. "Not threo days ago, I saw that many of the plums were punctured, and began to suspect that shaking tho tree was not sufficient. Under a tree in the remote part of the frut garden, having spread the shects, I therefore made the folluwing experiment; On shaking it ucell, I caught five Curculios; on jarring it with the hrud, I caught twelve more; and on strukag the tree with a stone, cight moro drupped on the sheets. I was now convincel that I had been in an error; and calling in the necesary assistance, and using a hammer to jar the tree violently, we caught in less than ar hour, more than two hundred and sixty of these insects."

Trees near path doors and other fre. quented places, are frequently observed to be f.ll of frut, whle others are all destroyed. The insect is frightened away from the former, by frequent passing. Hence farorite trees oi the plum, nectarine or apricot, may be often planted to advantage near such frequented phaces, and the fruit will escape. The black exerescences on the branches oi the plum may be prevented by a constant and vigorous excesion of the affected parts, and burning them as fast as they appear.

The plum is by some cultivators regarded as only fitted for heavy or clay soils; and some striking instances are given in prouf. But the writer has seen trees in abundant bearing year after year, and yielding fruit of the finest quality, on light or sandy soils. 1 porous carth may pos. sibly furnish a better retreat for the curculio; but to what extent this may be true, requires further examination.

Macedon, 8 mo. 15, 1844.
J. J. T.
-Alb. Cult.
Instead of spending a rainy day idly, repair whatever wants mending, or post your accounts.-Ib.
(Continued from the October No.)
EVERYMAN IHSOWN CATTLEDOCTOR.

## chapter ix.

## The Yellows, or Jaundice.

This is a far more common discase than the last. and almost ns dangerous, because, although it is not marked by any acute symptoms, or accompnnied by much fever, it creeps on insidiously, and fastens tiself on the constutution, beyond the power of medicine to eradicate $1 t$; or it is the consequence and the proof of some discase of the liver. which is equally difficult to cure. It may be produced by inllammation of the liver, or $t 00$ great mecretion of the bile, or Btoppage of the vessels through which the bile elould flow into the howcls. If its passage is obstructed, it is thrown back again upon the liver, and there taken up by the absorbents, and carried into the circulation, and communicates $n$ yellow colour to the blood; and ns the blood, by means of the capillary vessels, is carried to cvery point and part of the hody, so the sellow hue of the discase spreado over the whole of the frame.
This obstruction is sometimes effected by the undue thiekness of the bule ; sometmes by hardened bile or gall-stones: and in not a few cases it is caused by a greater secretion of bile than can find its way into the infestines, and which consequent1y. nccumulates in the liver, until it is taken up by tho absorbents, and carried into the frame in the manner that has just been described.
At the begunng of the discaso there is considerable dulness and langour, and loss of appetite The cow wanders about hy herself, or is scen standing by the side of the hedge orthe fenee in a most dejected manner. The quantity of milk is generally lessened; the bowels are costive; and the fore-tecth are soinetumes loose. milch cows are more subject to it than oxen, and particularly in the latter end of the year. Sudden cinange of weather frequently gives rise to it, and cspecially if the animal has previously exhbibed symptoms of ill-health.
The treatment and the hope of cure depend upon the causes and degree of the disease, and which should be most carefully ascertained. If it has followed symptoms of fever, probably indicattve of inflammation of the liver, it may be difficult to remove, because $3 t$ is an mdacation of the ravages which disease has made in the orgon Should the pulse be strong as well as quick, modernte bleeding will be judicious, but not otherwise. The bowels should then be frecly opened by means of the parging drank (No. 2, p. 47,) and kept open by half-doses of it admunistered as occasion may re quire. In this disease, oftencr thian in any other to which cattle are subject, stomachis are useful to rouse the digestive organs to their proper tone and power. Mingled with them, or atother periods of the day, medicines may be given which are supposed to have a direct effect on the liver, and a tendency to restore its healthy action ; therefore. while the tonic drink (No. 13, p 54,) is given in the morning, the following may be given at might.

## Recipe (No. 14.)

Drink for the Yellows.-Take, of calomel and opium, a scruple each: mixand suspend in a litte thick gruel.

If, on pressing the sides, the animal evinces pain, wo may suspect some inflammation of the liver; and a blister on the sides, but particulary the right side, will be useful.

After the yellowness 23 removed, and the beast restored to health, the tonic drink (No. 13, p 54) should be given twice in the week for a month. This will contribute to restore the weakened appetite, and particularly will bring back to the cow the proper fush of milk.

## chapter x.

Inflammation of the Brain.
Tus is not a very frequent, but a most frightful disesese. It is commonly known by tho names phrénzy, or aougla. It 23 most prevalent among well-fed cattle, aṇd parucularly in the summer
months. In the early perind of it the beast is dull and stupid. Me stands with his head protubed, or pressed against something for support. He refusces to eat, censes to ruminate, and is in n manncr, unconsrious of surrounding objects. Now and then ho will stand inotionless for a long time, and then suddenly drop; he will start upimmedintely, gaze nround him with an expression of wildness and fear, and then sink again into his former lethargy. All at once, however, his eyes will become red, and sectningly starting from their sorkets : the countenance will be both anxious and wild + the animal will stagger about, falling and rising again, and running unconsciously agamst every* thing in hus way: at other times le will tee conscious enough of things aroand hum, and possessed with an irrepressible desire to do mischief He will stamp with his fect, tear up tha ground with hils horrn, ran at every one within his reach. and with tenfold fury at any red object ; bellowing all the while most tremendously, and thas hr will continue until nature is quite exhausted n sudden and violent trembling will deen come over him, he will grind his teeth, and the ealiva will pour from his mouth; he will fall, every limb will be convulsed, and he will presently die.
Causes.-It proceeds most commonly yrom a sedundancy of blood in the system, called by farmers an overflowing of the blood; and thes is induced by cattle thriving too fast when tumed on rich pas-ture-grounds, or their being fed too quickly in order to get them into condition for show or sale It is sometimes occasioned by the intense heat of the sun, when cattle have been turned into the fields where there has been nothing to shade thein from its influence It may be brought on by severe contusions on the head, or by the cattle bemg harassed and fightened, when driven along the road or through large towns.
Very few weeks puas in the metropolis in which cattle are not driven into a state of absolute madness, cither by the brutality of the drovers, or by a set of misereants whose sport it is to abuse and infunate the anmal, and ciddanger the lives of the passengers.

The cluef or the only cure is bleeding The neck vein should be opened, on each side, if possible, and the blood should bs suffered to flow until the ammal drops. It is absurd to talk of quantutues here; ts much should be taken as can be got, or, at least, the blood should flow unsil the violence of the symptoms is quite aboted.
To this $\varepsilon$ dose of physic should follow The following may be administered:-

## Rosipe (IVo. 15.)

A Strong Physio Drink-Take, Epsom or Glauber's salts, half a pound; the leimel of the croton nut, ten grains: take off the shell of the croton nut, and wergh the proper quantity of the kernel. Rubit down to a fine powder; gradually mix it with half a pint of thick gruel, and give it, and immediately afterwards give the salts, dissolved in a pint and a half of thinner gruel.

If the violence or even the wanden $\quad$ should remain, another bleeding should take pl cesix hours afterwards, and this also until the pulse falters; and the purging should be kept up by half-doses of the powder (No. 2, p. 47.)
'Although it is very difficult to produce a blister on the thick skin of the ox, it should be attempted if the disease does not speedily subside The hair should be closely cut or shaved from the upper part of the forehead and the poll, and for six inclies on cach sido down the neck, and some of the following ointment well rubbed in:-

## Recipe (No. 16.)

Blester Ointment.-Take, lard, twelve ounces; resin, four ounces; melt them together, and, when they are getning cold, add on of turpentine, fou. ounces; and powdered cantharides, five ounces; stirring the whole well together.

When the blister is beginning to peel off, green clder or marshmallow ointment will be the best application to supple and heal the part. A little of it should be gently smeared over the blistered curface moming and night.

A seton, emeared with the above ointment may
be inserted on each side of the poll in preferenes to the application of a blister.

Although the volence of the discase, and of its remedics, will necessarnly leave the beast exceedingly reduced, no stimulating medicine or food must on any account be administered. Nashes and green meat, and these in no great quantities, must suffice for nourishment, or, if the animal, as is sometimes the case, is unable to ent, a few quarto of tolerably thick gruel may be horned down every day : but ale and gin. and spices, and tonic medicincs, must be avouted ns downight poisons. There is not a more common or a more fatal error in cattle management than the eagemess to pour in comfortable, I would rather say, poisonous drinks Even the treacle and the sugar in tho gruel inust be prohibited, from their tendency to become ted in the debilitated stomach of the animal recovering from such a complaint.
Every symptom of the disease having vanished, the beast may tery slowly return to his usual food; but. when he is turned out to pasture, it will bo prudent to give him a very short bite of grass, and little or no dry meat. Nature is the ive restorer of heath and strength in these cases; an.' it is often surprising, not only how rapidly the ox will regain all ho has lost, if left to nature, and not foolishly forced on, but how soon, and to what a cone derable degree his condition will improve beyond the state in whach he was before the complaint.
The ox fint has once had inflammation of tho brain Elould ever afterwards be watehed, and should be bled and physiced whenever there is tho least appearajec of staggers or fever. Tho safest way will be to send him to the butcher as soon os soon as he is in sufficient condition.

Sometimes the disease does not run its fall course. There is but a slight degrec of inflammstion, or there may be sudden determination or flow of blood to the head from some occasional causo, and without anlammation. This is known by tho name of

Stgagers, or Suimming in the Head.
The symptoms are heavivess and dullness; a constant disposition to aleep, which is manifested by the beast resting its head upon any convenient place ; and he reels or staggers when he attempts to walk. If this disease is not checked by bleeding, purging, and proper management, it will probably terminate in inflammation of thr brain or. inflammatory fever.

It mostly attacks those cattle that have been kept in a state of poverty and starvation during. the winter scason, and in the spring of the year. have been admitted into too fertile a pasture: hence $1 s$ produced a reduadancy of blood in tha system, which, on the slightest disturbance, or even naturally, gives rise to the diseass.

The cure must be attempted by taking four five, or six quarts of blood from the animal, according to its size and strength, the purgin (No. 15, p. 57) must then be adminitrered, and (No. 2, p. 47) continned in half-doses every eight hours, until the full purgative affect is produced. If the animal is not relieved in the course of two. hours from the first bleeding, the operation must be repeated to the same extent, unless the betast should become faint ; and the bowels must bo kept in a loose or rather purging state by No.2. As soon as the bowels are opened, the fever drink (No.1, p. 46) should be given morning, noon, and night, until the patient is well. Nothing mors shan a very little mash should be allowed; and all cordials should be ayoided as absolately destructire to the beast.

When the animal appears to be doing well, ho must very slowly be permitted to return to his asual food. He should for some wecks be put into short and scanty pasture, the seton should be cantinued in the dewlap, and occasional doses of Ep ? som salts administered.

## CHAPTER Xi.

Inflammation of the Bowals, with Costica. ness.
Inflanisation of the bowels is by no mems an
quenciy proves fatal to thema fivamadinous tratment. It is a complaint easily recognasable on account of the pecular symptoms by whech it $L$ attended.

The anmal is contanully lyas dona und get ting up agan anamedately, and, whe at ap, he strkes at his belly with his thad leet. The bowels are obstunately constupated. the dung if any is voided, 18 in small q-antites-hard, covered with mucus, and that sone tumes streaked with bloodand the uane ts gencraily ruded wah ditheuity The pulse is quicker thin natural, and there is much heaving nt the flanks.

It is distugumed from cohe by the great degree of fever that evadently attends at, the muste beng dry and the mouth hos. The ammal becomes eprecdily weak, he tills or thruws hims it down suddenly, and when he nises he dues at with difficulty, and he staggers as he walls The lowness and weakness appear more speedity and decidedly than in aluost any other disease.

The atack is sudden the that of colic. The ammal quis has companous, and hides huself under the lhedge. If he is in the plough, he all at once becomes deat to the volce of the driver, and insensuble of the goad. He tremblesall over-has skin becomes hot-his back and louns are tenderhis ears and horns hut. Every thang andicates the highest degree of local inflammation and general fever.

The discase mostly arises from sudd n exposure to cold; and especially when catte go into nuvers or ponds after being heated and fatigued. It is sometimes produced by change of pasture, and feeding too much on dry and stumulating diet.

The first thing to be done, and that whinh admits of no delay, is to bleed; from six to ejght quarts of blood at least should be taken away Immediately afterwards the purging drink (No 15 , p. 57) should be administered, and ts effect promoted by belf-deses of No. $\sim$, given every six hours. This is a very dangerous disease, and the measures pursued must be of the most decisive kind The symptoms succeed each other rapudly, and if one day is sutfered to pass without proper means being taken, the beast is irrecoverably lost

The thurd stomach or manyplus will generally be found, after death, choked up with dry food, hardened between the liaves of wheh that stomach is composed. It will be necessary to wash this well out before the proper path to the fourth stomach can be opened. In order to effect this, plenty of thin gruel, or water wath the chill taken off, should be gwen; or, if the beast will not drunk it, several quarts of it should be homed down. Clysters of warm water, or thin grael, with a purging powder dissolved in them, should hkewise be administered.

After haviag bled the animal once copoosly, and, if the fever has not subsided, asecond, oreven a third time, the fanner should in this discase of high, inflammation of the bowels, and strangly cosinc: inse found his only hope of saving the animal in producing purging, and to thes purpose his whole attention should be directed.

If it should not be accomplashed after the thrd dose of the medicine, 2 pound of commonsatt may be given. The water or other hiquad which the beast will probably be anduced to dnak will assast in parging him. Should not thas succeed, a pound and a half of castor-onl must be admunstered.

The patience of the attendants will sometunes be worn out-shey must, however, persst. Clysters, numerous, and great in quantisy, must be admintatcred. The Epsom salts and the castor-oil wall not do harm in whatever quantutues they are given. it will not be pradent, however, to repeat the common salts Duning the whole of thas ame the cordial drink of the cow-leech must be avoided as $a$ dose of poison.
The farmer of the attendant mast not be deceived by the passage of a hitte liquid dung in a emall stream, for that shows that there 18 yet much hardened feces clinging round the inteatinces, and which must be removed, and therrfore her must fursue the measures recommended until the dung is cxpellea in considerable quantities, and in a lerge full arcam, and wihout much straining.

There has generally been something more tha usudlly wrong in the food or manarement when that eid consupation ts observed. Lither the anmmath hes been luept too much and too long on dry fud, or he has besa turaed tho fresh pasture tand particulails in the autuma in which there areak-trecs or sume astrugent vegetables. The causc mast be remured, or the useaze wall return.

The state of the buwels of a beast that has once been sapped should be observed for some tune aftervards, and gente apertents occambnally adnumstered, cold water thould not, for a little while, be permited, and strict attention should be pard to the det

Inllammation of the bowela, however, wall in a fen cases ocear whent all thes costiveness, and yet produced by nearly the same anuses. The wher synuptoms are the sanc, but the danger 19 not so great The beast should be bled and physuced, kept moderately warm, and have wanm water whth bran mashes.

## SIbERIAN SPRING WHE.AT.

This varicty of wheat is now pretty generally cultivated in the central districts of the Province, though it may be had in the largest quantities in the vicinities of Cobourg, Port IIope, and Peterboro'. We expect that thousands of bushels may be purchased in the neighbourhood of the above tuwns, for about the same rates that good fall wheat commands. We sowed 47 bushels of Siburian wheat last spring, which has given a return of about 25 bushels per acre, and its fluuring qualities are nearly equal to red chaff winter wheat. Our average was not equal to many of our neighbouring farmers, who only sowed a few ceres upon land prepared in the best pussible manner : notwithstanding we have no reason to complain, as it yielded a much more profitable return, than about an equal number of acres of autumn wheat, which was summer fallowed, and prepared with the greatest care. We also sowed about 30 bushels of white chaff, called spring wheat, and acre for acre, the Sibcrian will yield 25 per cent more than the common variciy, ard wils bring 2d. or 3d. more per bushel in the market for grinding purposes. We have met with a number of instances in the neighbourhood of Newmarket, where from 40 to 45 acres of Siberian wheat has been harvested the past season; and those larige yields have been grown without an exception after potatoes, with no other preparation than an autumn ploughing, and a thorough spring harrowing. Potatoe fallow, we believe to be the best preparation for spring wheat, and if the ground be properly manared in the autumn, it will re. quire no further trouble in the spring than a harrowing to prepare it for the re. ception of the seed. The sooner it is sown in the spring the better, but the land should in all cases be allowed to get dry, before it be harrowed. To faciititate the spring work, it should be ribbed in the fall, and the furrows should be ploughed as deep as the strength of the teem will admit. Many anquiries have of late been made, relative to the peculıar appearance of this wheat, which we shall briefly answer. The chaff and straw are red, and, if free from rust, are beautifully transpa-
rent. The thameter and length of tho straw are considerably under the common varieties, and the straw is much harder, and of a more wirey appearanee, like the straw of chess, than other knds of wheat. The heads are remarkably long, and the grains are placed at a considerable distance asunder; notwithstand. ing we havo frequently counted ninety grains upon a single head, but the average number is about sixty. The graing are short, plump, and of a light colour ; and the bran is very thin and light when compared with the common linds. The high character which we gave of the Siberian wheat, has been fully borne out from numerous and repeated trials; and from this fact, we feel an additional confidence in soliciting the Canadian farmers to sow this valuable variety of wheat, in preference to all other varieties of spring Wheat. We trust thet merchants and millers, who are interested in this matter, more than even the farmers themselves, will purchase this wheat from the present holders, and retail it out to the farmers in their respective neighbourhoods, for seed for the coming season.

## FARMERS' CLUBS, AND LIBRARIES.

In perusing the proceedings of a recent meeting of tha Farmer's Club, New York, we were very forcibly impressed with the adaptation of those modern institutions, to the peculiar circumstances of this country. The present high state of agricultural improvement in England, may be attributed more to the influences of Farmers' Clubs, and Libraries, than to any other individual cause.

So general and popular have those associations become in that highly cultivated country, within a few years past, that at present there is scarcely a market town or village but that one is established in, and the proceedings and reports of those clubs are published in the local papers for the general benefit of their readers. The members of those clubs meet weekly or monthly as the case may be, and freely discuss topics, that have a direct bearing upon agriculture, and the development of the resources of the country. The free exchange of views that take place upon the influences that affect agricultural operations, give the farmers who attenu those meetings, an unshaken sccurity and confidence in the application of the means for effecting the improvements in agriculture, that the men of science and deep research have pointed out. The powerful impetus for improvements in agriculturo that has been so generally and effectually brought about in England, through the agency of agricultural clubs and libraries, has attracted the attention of our sagacious neighbours, who are now following the example of the British husbandmen, by organizins similar clubs in their citues, towns, and villages.

As competition in agriculture has now become the order of the day among the civilized nations of the world, we sce no

Just reason why the farmers of Canada should be behind the age, in maters es-
sentially important to their individual and national prosperity. We, therefore, humbly crave, that the attention of the agricultural classes may be seriously devoted to the importance of this subject. To convince our friends that we are not only disposed to recomuk ad to others plans for their adoption, but to aid also in the work, we have spoken to such of our neighbours as would be most likely to take an active part in the establishment of a farmers' club and library in the village of New market; from the most of whom we lave received most flattering encouragement. We hope that we shall be able to lay before the public very shortly, the reports and proceedings of a number of Canadian Farmers' Clubs, and that steps will be taken to establish them in every populous settlement ir the province.
There ar, few works yet published up. on Canadien agriculture, and if libraries are established in comnexion with the clubs, the most of the works will have to be imported from Great Britain and the United States. Scarcely a month passes over, but that new and almost invaluable works to the farmer, are advertised in those countries, and strange to say, com. paratively few find their way into this country. A club numbering 100 mem . bers, the annual subscription of which being five shillings cach, might be placed in possession of about all the modern works published upon agriculture and general science, within the short period of five years, and such a club could also be in regular receipt of a considerable number of periodicals, which should be placed upon their table in files, for constant use. When the Canadian public have taken the necessary steps to obtain and circulate all the foreign useful information pub. lished upon the science of agriculture, wr may then expect to see a new order ol things among us, and we doubt not but that Canada will then produce as brilliant agricultural authors as any other country under the sun.

THE CANADA CORN BILL.
Tho English agricultural press are, withcut an exception, loudly denouncing the levelling influences of the present bill, which admits the produce of the United States, passing through ihe Canadian waters, into the British Markets, upon the same liberal terms as the bona fude growth of Canada. The carrying trade of the United States produce is certainly a boon, so far as the Colony is concerned, but at the same time it should be borne in mind that the wheat growing powers of the North Western States and Territories, are yet comparatively unknown. even in their own country; thry are, however, sufficiently known to infuence the grower there to boast that no other country can successfally competo with them in the prodiction of breadstufis and other pro. risions adaptod for exportation.

The present Canadian Corn Bill proves itself to be in practice a direct premium to the farmers in the Western States. As soon as the measure came into operation, thuusands of emigrants were on the wing for North Illinois, Jowa, Wisennsin, Missouri, and the North West Territories, from the British Isles, Prussia, Germany, Netherlands, and. in fact, from every cuuntry in Europe ; and very shortly that vast continent of country lying beiween the Mississippi River and the Rocky Mountains, will become cultivated by Earopean and American settlers, and the prolucts brought down the waters of the St. Lawrence, at a much less price than would at present satisfy the Canadian grower. The Corn Bill no sooner became the law of the land, than advices were sent to the Illinois Government, by British capitalists, that upon certain securities, a loan would be made, to enable the government to complete the great canal which is intended to conncet the waters of the Mississippi and the St. Lawrence together, and upon the strength of which we understand that that stupendous work will be shortly completed. A person acquainted with the geographical position, and the vast resources of the "Far West" will be able to form a pretty correct esti. mate of the ultimate trade of the St. Lawrence, if the present Corn Bill remains unchanged. If Great Britain were involved in a continental war, an ample sup. ply of provisions could be supplied her from Canada, with less risk than trom any other quarter; and whether she be at peace, or at war with the rest of the world, it is ccriain, that the whole of this im mense trade from Canada will be carried on in British and Canadian bottoms, which of iscelf is a matter of the greatest importance to the British nation.
The English farmer may with much, reason complain of the working of the Canadian Corn Bill, but when the cries of the starving millions of manufacturing operatives reach his ears, if he be a man of reason he must clearly see that something had to be done by the government to relieve their distress. The difference between the corn bill and free trade, in favour of the former to the British Government, must appear apparent to the English grover, and so long as something had to be done, in the way of providing cheap bread for the labouring classes, the measure which was adopted, was probably the wisest that the legislative wisdom of Britain could devise.
As an evidence of its practical opera. tions, we copy a few extracts from the Liverpool Timcs.
" It will be seen from the following comparative stazement of the exporss from Cannda up to the Pth of Aupgss in the lasta nad he pe present yen, that about 50.000 baitcls to upwards of 307,000 , and the quanuty of wheat from a hettlc more than 15,000 bushacels to apwards of 237,000 . This bas occurred in spite of unusaully high freighis and of a declining market in this conntry, and although the losas on the recent imporations have fallen rery
heavy on the impolters, the production of wheat on the banks of the St law rence and the shores of tho lakes is noreasng so raydly, that a constantly increasing supply muet find to way to the Euglioh market It will be sech, from the following extract of a teter receaved by the Caledonn, that the harvest ot the present year is one of the finest ever gathered in Amerca.-- Muntreal, Aug 12 - Weare in the mudst of one of the finest harvests that ever occurred in Ainenica, exiending from north to south.'"
Arrivals of Produce at the Port of Montreal, to August 9, Inchusure-(by Canal and Rucer.)
"Canada.-10,3.41 barrels of aghes, 354,618 barrels of four, 21.1,893 bushels of wheat, 6,832 barrels of pork, 1,581 barrels of beef, 514 kegs of lard, 1,944 kegs of butter, 420 barrels of tallow r 2,200 bushels of peas, $3,58+$ bushels of baricy. United States- 800 barrcls of ashes, 77,032 barrels of flour, 34,878 bushels of wheat, 13,305 barrels of pork, 173 kcgs of tard, 143 barrels of tallow.
"Total-11,141 barrels of ashes, 461,650 barrels of flour, 249.771 bushels of wheat, 20,137 barrels of pork, 1,585 barrels of beef, 687 kegs of lard, 1,944 kegs of butter, 563 barrels of callow, 2,200 bushels of peas 3,584 bushels of barley "Same time 1843-9,9.13 barrels of ashes, 166;522 barrels of flour, 60,712 bushels of wheat, 6,400 barrels of pork, 617 barrels of beef, 440 kegs of lard, 950 kegs of butter.
"Exports from Montreal and Quebee to August 9, 1841.
" Montreal-15.525 barrels of ashes, 154,604 barrels of flour, 210,212 bughels of wheat, 1,368 barrels of pork, 1,409 barrels of beef, 371 kegs of butter, 1,195 barrels of oatmeal, 48,887 buahels of peas, 53,553 bushels of barley, 20,388 bushels of oats, $40,225 l$ specie.
"Quebec-1,863 barrels of ashes, 153,365 barrels of flour, 26,866 bushels of wheat, 2,262 barrels of pork, 648 barrels of beef, 557 kegs of butter, 1,225 barrels of oatmeal, 20,205 bushels of peas, 7,062 bushels of barley.
"Total-18,387 barrels of ashes, 307,961 barrels of flour, 237,098 bustheis of wheat, 3,630 barrels of pork, 2,057 barrels of beef, 923 kegs of butter, 2,420 barrels of oatmenl, 78,092 bushels of peas, 60,615 bushels of batley, 20,388 bushels of oats, 40,255 specic.
"Same time 1843-17,487 barrels of ashesx 50,130 barrels of dlour, 15,417 buhhels of wheat, 4,849 barrels of pork, 689 barrels of beef, 779 kegs of butter, 1,048 barrels of oatmenl, 31,726 bushels of peas, 300 bushels of barley, 200 bushels of oats.
"In addition to the immense ancrease in the exports of whent, it will be seen that there is a great increase in barley, oats, and peas."
"In addition to the foregoing wo have to lay before our readers the following extract of a communcation from Buffalo, a port situated in tho United States of Amerca, at the eastem extremity of Lake Erie, -
"The speculators in grain were all struck aback to day by unthentic information obtained of tho quantity of wheat passing the Welland Canal from Lake Eric to Canadian ports end others on this side of the lines. It was generally understood that the quantuty was large, but very few were prepared to place the aggregate as high as 865,000 bushels, yet so it turms out. Of this imanense amount 208,000 bushels were consigned to Kingston, St. Catherines, and the mills at Gananoque; and the balacce, 657,000 bushcls, went to Oswego and Ogdensburgb. This is a prodigious increase over the shipmenis of former yenrs, and must strike tho mullers wh much surprise How much flour has been shipped by the same channel is unknown, bat that sent to Oswego most be large.
"The whole of the whent therefore that hasbeen landed at the port and worked off through the Welland Canal, as above, will give the annexed
result up to the 23rd July--Received here, wheat 1, M93, 0 No bushrls Passing Port Colborne, C. W., R65 non bushels Total 1,958,000 bushels. Only think of the Welland Canal taking off swo-fifths of the sapplusproducts of whent from Ohio, Michigan, and other Westem parts bordering upon the lake region."

From the Amertan Fitruer. MANURES.

## A Prize Essiy,-By \& L. Dina.

section fifevevth.
Of Artifirith Nier. Brts
But there 18 a fashown in manures as weh as m
 that you may te melued to nee th Be tt eo. I wall show you, reader, hew to made at yoursh, and at die sabe that form a hage pite of capadi, mouta. But as you have begua to mquie a butbe into the casoa et thats, bet us to a hathe mathe reasuns why the conht madat allidans where catte are heph, way the phanter of wid houses and cellar walls, ainay athod sultume. Iou weth hoow that thess the coscound whit We hateat ready twid 3 wa, that the sud on sapp the, that is, the aqma-futis, os format of her mor we breatie Now alkales and promes tudies conme the consutuents of arr, under certan curcamsamecs, 10 umbe and form aqua-fents, atd thes tmanediatiy untes to the alkah, and forms salupetre. The lest aikahi to conpel has umon, is amactar. Hemec, where plenty of ammat mater is firnechang, or rotung, or where plenty of tune ts, there, porods bodies being prestm, sultpetie wil be formed. Now thas is envunta for you, to understund the priacple upoa whin I projese to you to torm an artificial natre lnd fur yuir owa ues. It has been found that the manure of tweaty-lite cons, asses, and mules, in layers of abuat fuar mehes thath, with lay cas on the sobue thakhtotos of clathy somi, first one and then the oher, and now and then damped whth the uate of the stable, meduns from 1,000 to $1,200 \mathrm{lbs}$ of saltpe ire in fuur years
The heap is formed under cover, and oecasonally shovelled over. At the end of two years, 18 is a mars of rich mould. It is iffitio ycars ivag. cr, with an uccawional urnagy over, but it is nut wet with urane for the lust few montis. The dang the farmer has always, he wame the porous chalky body. Thas may be furmasted by spent ashes, mixed up with ts bulh of loan. Hence the following rale may be gaten. One cordof ciear cowdung, one cord of fye int asiass, one cord uf tuan or swamp much Mix the ashes and the swank muck well, and having hard rammed the bara-ceifar fluor, or that undir a shad, lay a bed upon at four inches thack, of these mased baterriats, then A layer of duas, three or four mathes thel, wat so pn, till the pile is two or thrce fiet high, topphng off with loam. Wet it oceasionally wath urame feeping it always about as moistas garden mould. Thovel over once a formight for two ysars. The pale new comians about fity younds of seterat vafielies of saltpetre, and muxd tareughout wah pearly three cords of exechent manure It may therefore, br now used, according to the farmer's judgment. By thoughtiol manaqeanent, he may, after the first iwo years, annanay colect as many fifty pounds as he raigioys cuids of cow duag. But, howerer prepared, mire affords, hy as citmenk, nourishment to plants All its parts act. Its alkali acte, and its acill acts

## SECTION TWELFTH.

## Ashes.

It is eacy to sen, that salts, whatever be their name or nature, which are like on be of any sersice to the farmer, are thos onily wheh neather enter into and form fart of the phanitor whelh,
 parts of cill or upun the math. Sulse ther pat son, or nourish planss Thr first, Dike the medhcines we takr, are gond in doers, the sreond, ran bardly anure. evea by thent exarss. If we recar to the prancyle, w.ha, whith we set uat eariy on this cessay that he ashes of prans contan all heat malts, then, righty to know what salts are lihely so produce good effects as manure, we should first sindy the comprestion of ashrs. We have, in ashea, $\lambda$ great varicty of suixiances. They come from the soil Ther form a part of pinnte. The dead glant returna them andin in thrir mocher
fearth, or we, losing the volatle parts of a plant, Hes houdd and ammoma, by burman, collect ats talts at asturs. Let us nee what these suits are , bade of In the first place, you know, alt salts are cumposed of un acid and a base
The bases are,
Putash and suda,
I.we,

Musucs.a,
Clay.
Iron,
Matuganese,
Shex or the earhis of hats.
Nuw ff we thuw wat the catmone acid, whech has beal formed maname we hate leftion ashes, thiec ands, wheh are umed wath the hases, and

 bom-dust, asate of hame, and what we may terma bone-dust sali ol avoi, ol phoyphate of a ana, phaster of Paus, gy puan, copkras, diam, or some uther salh, wheluacednenbe anmenated. Uur hat compheses the phacinat, wad thuse mose hibely to be; used mfanatho. Well, now, the hssem to be Jrawn foom tiot conipusiten of ashes is dus, that there 19 starculy any sit vecunamg the comatere, which nuyy not be mod a agricuiture, monead of thuse funad 10 asdes. In funt, almust all solts whal vecar $m$ a large way, as refuse matenals from manafaciats of viler sources, have been used, and all with greater or less suecess, as maaurts. Aud if you cast your eye vier the acids and hasoo of wamon udies, has seems quate rea sobuble. It is avt enpuled diat a plan farmer, pesising hate or no chemacal hnowledge, should be able to tell befor hand, what the effects of a salt would be, appled to hisland, but if he understands what the composituon of ashests, he may be sure that in any quantey in which the satta tikeby to oteur, at cannut be munnous, provided at is maxed up whit pleuty of mould, and a latie, ashes, or alhah, which will hith or neutralize any excess of the poisonous acid.
In ashes, we hase one part whech may be leachcd out, and a part whech remans after leachng, whed spent ashes. Let us see then an leaching, "hat pats we tahe away First, we tahe away ath the acids acept he phesphoric. Secondly, we take away nearis all the potash and soda. What is lift The phusphurac, and all the bases. It is evaleat, theretore, that the strengh of ashes can me ter be hathed wat, if that depends upon the salt. In spen: ashes, we have nearly all the bone-dust Ifft, and, bescdes this, a portion of $u$ hat is usually consdered the real strength, that is, the potash. This as chemeally unted to certan of the other consuanons of ades. Tou cannot leach it cut, ho jou never so long Cpsut yuur ceach-ub how oter your sperat ashes, wis at up whh fer menung monure, where a plenty of fixed air is gatca off. Here as the secres of the value of spent achas, so far as the potash or ley strength is concerned. Thas axpusure to the arr, to carbonic and, ice wese the potash, which was chemically combned wath the other matters. Water would never have done this. Mark now a practical lesson, taught he.e by chemistry, and confurmed by expm nenee. Leached ashes must never be used on wis soil, for want its allalito act. The close wot suil. soil, perhars oven half covered at times with water, c.cclules the air. The carbonic acid of ar, that whech alone extracts the alkali from Sientastes, cannot here act. There is this other insen to be leamed fom these facts, that it is ch.cily the athaline action, which is wanted from sint abher Ifenc no one who thus ynderstands the source, and the true valuc of ashes, will allow the alkatime portuon to be first leached out, unless he can find a more ceonomical use for $h$, than ats atmeatunas a fictuzer. Ferhapsnofict speaks inut. r, that the great action of spent oghes is that of is potash, than this, that where, we prevent that from being extracted, the spent asics are of litte value. If, then spent ashes derive their grent valur from the potach, much morn will unleached avive drave thrit walue from their potash
Noser, readre, the phint to which I have led you.
in these remarks, is thas, that the more alkaline any salt ts, the better it is for manurc. Hence at a general yule, about the use of salts, it may bo land down that the alkaline salts, that is potash, penrlash, common ashes, barilla ashes, white, or soda ash, are the best. And as these, in all their varous shapes, are the cleapest and most common arncles, so you need not run after a long list of other malts. Neyt in value to the real alkalios, are spent ashes, used in a light, porous, open, sandy soll, if you would derive the greatest benefit from them. Next to these comes peat ashes. You well know these are of no value to the soap-maker. But nut so to you. They show only traces of alkaline power. But treat them as you did spent ashes. Their power, independent of thear bonedust, .. luch is by no means small, and their plaster, which is still greater, and ther lime, which 18 perhaps the greatest, hes in the alkali, which is locked up, as it is in spent ashes. Treat them, therefore, as you did spent ashes, and then, peat ashes will and do affurd alkat. So too coal ashes, even yuur hard anthracte astes, yeld all the substances which spent ashes do. It aseasly seen, therefore, when, how, and wherc, spent ashes, peat ashes, coal ashes, are hikely to do good. Perhaps wo maty not have a better place to state the fact, that a cord of soap-bouler's spent ashes contan about fifty pounds of potash. When we add to this, onc hundred and seventeen pounds of bone-duatt, and about a ton and a half of chalk, or carbonate of hame, which acts chiefly on the soil, and to comes not now under considcration, it is seen, that there is no cheaper source of alkali and sals, to vic watho reasonable carting distance of a soapboiler, than spent ashes. They are marl, bonedust, plaster, and alkah combined.
(To be contznued.)

## TIIE BLACK RASPBERRY.

Messrs. Edutors,-] would advise farm. crs to set out in their gardens, two or three dozen of the White Antwerp and Black Raspberry, the latter of which may be found wild in many places in this State. They yield a large and beautiful fruit, to be caten from the bushes, or as a dessert on the table. When cultivated in gardens, they grow very large ; the dark red and polished stallis rise from three to six feet from the earth, then bend over in graceful circles to the ground, or coming in contact with which, the end inserts itself in the soil, forms a new root, and sends up a young shoot for fruit the next year, as sweet as the nicest tooth could desire, likewise making an ornamental appearance. The abundance of fruit whech they produce is astonishing. Mixed with a little cream and sugar, they present upon the table a dish that would do honor to the most exhalted guest.Therefore, brother farmers, try it, and in a few years you will be richly paid by your shrubbery. Yours, \&o.

## Shorcham, Vt. May 20, 1844.

## Simplc and effectual Remedy for Horo

 in Cattr. -Try the remedy of an egg-shell full of tar, rather than attempt the barbarous practice of sticking. If two men hold the animal's head straight, a third its tongue to the right side, he can easily put dnwn its throat an egg-shell full of tar, and in ten minutes relief will usually take place; but a second dose has never failed with my catte, which are always kept at a brisk walking pace through the yard until relieved:-Dublin Farmer's Garcte,
## AGRICULTURAL PURSUITS.

So wide is the field of the farmers tabor, and so meny the objects connected with hus vanous em-ployments, that we sec no roason, havang aught of, sound argument, why the farmer should not be the most learned of nen. They have more to do with the element of nature than others, and are practical chemists, dependug upon the carth for subsistence -they by tme, separate, modity, and change the simple and compounds, so as to affurd the several elements of which the vegetable kungdona is composed, thus makng of the farm a workshop and laboratory. In ploweng and preparing ths land for seeding, the 18 a practucal mineralogist and geologist ; in observing and prevenung the ravages of destructive insects, he is a practical entomolugist. Indeed, to euumerate hus various employments would be hardly possible. He is the practical botamst and metcorologist; but it is quate improbable that one man should be perfect in all these branches; yet the farmer, by a more attentive examination mito the cause and effect of all whech occurs under has mmediate observation, may become a better natural philosopher than heretofore, and, by the cultuvation of has mental powers, command and retam that respect to wheh he is so justiy entuted, as one of the producers of the weath of the nation, and as one of the many plitars of the constatution. Of all the various employments which have from ume ummemonal engaged the attention of men, none have been so pre-emmentiy aseful, more honorabte, nor so neariy connected wath our miterest as nations, as mdividuals, than agriculture; $x^{2 t s}$ pursuits ofter to the ingemous mind more opportunites for research and experiment than any other science, yet is 13 a lamentable fact, that there exists among the farmers an apathy to the pursuits of knowledge, and a want of that spirit of inquiry respectung the nature and habits of those objects upon the perfected cultivation of which depends the production of real wealth. What 18 the cause of this! A want of the proper estumation of the pursuat of agriculture. Is the cultavation of the soil regarded with contempt t'Tis an abusedidea, and we believe it too generaliy prevails, else why are so many of our young men engaging in the professions, too full, long ere; this, for the country's good? And why are so many ensconced behand the counter, to learn the art sad mystery of measunng a prece of tape 1And why are the many mechancal branches so completely overstocked, while agriculure, the mann support of the nation, holds out so many anducements for ats parsult, at once more interesung, more profitable, and, as mprovements are made, less laborious than cither the professions, the mechanical or mercantile pursuits?
Agricultural pursuts may be made profitable: and the farmer's profits are sure, white by the fluctuations of the market, the merchant or manafactarer may be robbed of the reward of their labor. -They may have done cvery thing hich intelligence and industry could to ensure suecess, and yet at the year's end, wand op busness wath a loss, not only of profits, but capital too ; but thes cannot happen to the andustnous farmer, hes capital is invested in the soil, and he draws upon a fund which has neyer failed, since time immemorial, to honor all just demands; his profits may be diminished, bat never wholly suspended. Although they are more imposed on than any other class of the community, and have less moncy, still they may grow rich. The mechance may cam his six, cight, or twelve dollars a week, yet his condition is no betterat the year's end than when he commeneed it; while the farmer, caming from fifty cents to one dollar an day, grows nch. If the artisan lags down his sooks, and the professional man is ade, they are sinking moncy: not so wath the farmer: if he olecps, his wealth still accumulates. Indeed the mechanic, physician, merchant, and idler, may receito thear thousands ycarly, set due poor; whule the farmer scarcely receives as many tens, and hives and dies as the lord of une soil. Mrayy deem farming fit cmployment for sach only as have not senac enough to pursue anything else; notwithstatiding the glaning facts, that from the soll is drawn nearly gll the wealth of the nation-P.Boy.

THE VERMONT STUMP MACIINE. Editors of the Cultivator,-Whea $I$ frat saw a raft of the Vernoout Slatu, Mulatic, in the Ot to ber number of the Caltivator, I resolved to make one, which I accordingly did the past winter It appeared to me a very unwieldy thing, and ns ny land was uneven, I thonght it nut firm enough to answer the parpose. To obviate thas dilliculty, I made as sumewhat duftreat, and I thinh better The machure os much smaker than the une des -it ed an the draft. The whech is only 8 feet 5 inches, shaft 11 inches, upriglt parts 7 feet high, and standing 8 feet asuader. I framed a picce 5 by 7 across, just near enough the tups of the pusie to allow rovan fos the shaft and chaia to wohk, baced it at the curners wath uld tire, 2 of long, a of bolt through each end, and through the upright and cross puece which holds at firmly together I then hollowed out the tups of the posis, so as tu lay the shafi in them. The what woiks outide of the pust as acar to at as pussible Thus the objettiun arged by a curtespondent, hat it vould crush down, is remuved, and even on land that is hilly. by going up and down, at will work pretty well sume of my freends ndiculed the adut of drawing stamps whit such an athcie, tut their nutiong were changed when they saw it in uperation I consider it a valuable invention The stumps that I undertook to draw had been cut some four years and not targe. After breaking some of our common lug chans, I pruturud une hatade vut of $\}$ inch bar, whuch I thush will stand a subnger machine than mine, but on gutting a duuble tcam to the rope, I broke the arms of the wheel; so I let it stand, and planted iny corn, intending to renew the operation again. The arnis werc oniy two by six inches. I thinh a machine can be made strong enough on this principle to draw any ordinary stump after being cut three or four years If any one thinks it too much on one side, which might be the case if the whecl is large, let him put a wheel at each end of the shaft oussde of the posts, which will balauce. Hc then may apply force to one or loth wheels as the case may require.
Cluester County, Penn. 6 month 3, 1944.
N. B.-I thank the machine described in the February number of the Culternator is about the right suzc. If he would frame a prece across, it would not require propprag on the sule of a lall, nor would the oxen pull it to pleces so easaly. The pacee may appear no the way, but the shatt being much anger, it will not be much obstructon to the chain.-Alb. Cultivator.

To desiroy Rals.-The following recipe for the destruction of rats, has been com. municated by Dr. Ure to the cuuncil of the English Agricultural Society, and is highly recommended as the best known means of getting rid of those most obnoxious and destructive vermin. It has been tried by several inteliggent persons, and fuund perfectly effectual.
"Melt hog's lard in a bottle plunged in water heated to ebout $150^{\circ}$ Fahrenheit ; introduce into it half an ounce of phospho. rus for cvery pound of lard, then add a pint of proof-spirit or whiskey; cork the bottle firmly after its contents have been heated to $150^{\circ}$, taking it at the same time out of the water-bath, and agitate smartly ull the phosphorus becomes umformly dif: fused,forming a milky-looking liquid: This misture being cooled, with occasional agitation at first, will affurda white cumpound of phosphorus and lard, from whech the sprit spontanoously separates, and may be poured off to be used again, for none of it enters into the combination, but it merely serves to comminute the phosphorus, and
to diffise it in very fine partieles through the lard. This fatty compound, on being warmed very genlly, may bo piourcd out mato a anxtane of wheat ilvar had sugar meorporated therewth, and then flavored with nil ofrlodiym, or int, at pleasureThe flavor may be varied with oil of aniseed, de.-'Hitio duagh being made into pellets, is to be lad in rat-huies. By its luminousness in the dark, it attracts thenr notice, and being agreeable to their palates and nuses, it is readily catcn, and proves certamly fatal. They soun are seen issuing from their lurking-places to seek for water to quench their burming thrst and bowels; and they commonly die near tho water. They conitinut to cat it as lung as it is offered to them, "idhut leeing deterred by the fate of ther fellows, as is known to be the case with arsenical doses. it may be an casy guide fur those who are desirvus of fulluwing Dr. Ure's prescription, and may not have a thermumeter at hand, to know that a temperature of $150^{\circ}$ of Fahrenheit is equivalent to a degree of heat midway between that at which white uf egat cuagulates and white was melts." -Am. Agrıcul.

## LABELS FOR STANDARD FRUIT TREES.

Great convemence is found, in large collections of frut trees, in permanent names of the variety attached to each tree, and various modes of marking have been adopted. The best we have used, is a small sly long and half an inch wide, suspended by a wire loop to one of the horizontal branches. The most suitable wood is red cedar; a block of it should be bored through one end with a small gmemet or carpenter's bit, so that when afterwards split into labels, a hole is left at the end of each for inserting the suspending wire. The best way to mark the name is to rub on a little white lead paint with the finger, and writo immediately with a black lead pencil, which will last many years. Copper wire is best for the loop-it should not be less than a large pin or the fortieth of an inch in diameter. If of much less size, it will be repeatedly bent by the rattling of the label in the wind, and finally crack off. Iron wire soon becumes rusted, and brass is too stiff. A piece of wire seven or eight inches long should be attached to cach label; and if placed on a small branch, it will be many years before the wire, by the growth of the branch, will cut into it. Twenty-five cents worth of copper wire will be sufficient for one hum: dred and fifty trees.

Metallic labels, with stamped letters are more durable, but attended with more cost and trouble. We have those made of wood as just described, which were mark. ed five years aro, the letters still remainang distinct, although the paint and a part of the wood around the letters have worn away.
J. J. T.

## FOURTII ANNUAL SHOW

of tix new yonk state agricultural society.
The Editor of the Anerican Agriculturist says, "This great event came off at Poughkeepaie, on Tunsdav, Vednesdav, and Thursday, the $17 \mathrm{th}, 18 \mathrm{th}$, and 19 th of September, and wa, more numerously attended, and realized a much larger amount of funds to the society, than any exhbition yet held. The number of visitors were computed during the three days of the show, at no less than 30,000 , and the number would have been greatly increased were it not for the dust and excessive heat; still the country made a good turn out, and right glad were we to find the number of ladies present nearly, if not quite equal to, that of men. The amount of recelpts at Poughkeepsie for membership to the Society, and tuckets of admission to the show ground, principally at one shilling each, was about $\$ 3,700^{\circ}$. In addition to this, the citizens of the village and its neighbourhood, defrayed the expenses of erecting the edifices and fencing the ground, ensting about $\$ 1,700$, making a total of about $\$ 5,400$ received."

The want of space forbids us copying lengthy extracts of the proceedings which took place at this great farmers' jubilee. It must undoubtedly have been a most magnificent and instructive spectacle to behold. The choicest products of the soil, and of the work-sliop, of the extensive republic, concentrated within the limits of an area of ten square acres. We can truly say, we now regret that we were not present, to have examined for ourselves, and to have reported to ous readers, such matters of general interest as may have come under our observation.

## NEW SYSTEM OF MANURING

A singular idea has just been suggested in Scotland, in relation to the nutrition of plants. It may be summed up in a few words, thus-that a sufficient quantity of the elements of nutrition may be absorbed into the seed of wheat, oats, barley, \&c. to ensure a very large produce at harvest, without any other manure. The gentleman that suggested the idea made experiments at two successive seasons, (in 1842 and 1843,) with complete success, and the Highland Agricultural Socicty of Scotland, have published in their Transactions, a detanled account of the whole affair. The experiments were tried on oats and barley, and the produce, especially the oats, were exhbited at the Society's exhibition last fall, and were of remarkable quality. Intheir Transacuons, the Society speak of them in these words:"There was perhaps no object in the cxhibition of plants in the Society's Show at Dundeo, in August 1843, which attracted such general attention as the remarkably strong and vigorous oats, growing in goil, exhibited by Mr. James Campleill of
the Educational Seminaries of that town. the Educational Seminaries of that town.
The soil in which they grew, possessed no preuliar property, exeept that it had not
been inanured for eleven years. The vi-
gour of the plants, according to Mr.
Campell, was entirely to be ascribed to their seed having been subjected to the process of soaking in certain chemical solutons." Mr. Campbell, hinuself, describes the result of the experiment thus: -" The greater number of the stems of the oats are as thick as small canes, and the leaves from one inch to one inch and one-seventh in breadth, of a siguruus dark green colour. The seed was very hght, not exceeding 37 lbs per bushel, and consisted of grains set aside for feeding poul. try. The average number of stems from thirty-three seeds, is eleven or twelve to each seed sown, and the gross apparent produce between five and six hnndred fold." The solution in which these oats were soaked, was that of sulphate of ammonia. He prepared it from the carbonate of ammonta humself. He also used solutions of nitrate and muriate of ammonia, and nitrate of soda and potash, and al! these in combination; but he seems to think the sulphate the best, though all the others produced favourable results. As these experiments cost but little, and can very easily be tried, I would recommend all farmers to make them with at least one acre. The simplest method is to take one pound of carbonate of ammonia and dissolve it in five pints of pure rain or river water. Then take one pound of finely ground gypsum (or plaster of Paris,) and stir it into the solution of ammonia, and let it stand twentv-four hours, stirring it occasionally. When th, lime of the plaster of Paris has completely settled at the hottom of the vessel, pour off the clear liquor into another vessel, and add four pints of water to the lime, stir it well, let it settle, and then pour off the clear liquor into the other vessel as before ; then put three pints more of water to the lime and stir it well again; let it settle and pour of as before into the other vessel. The object of these successive washings is to secure all the sulphate of ammonia that may be in the lime. The result will be, that there will be in the twelve pints of solution just one pound of sulphate of ammonia, which is the strength of the solution dirceted by Mr. Campbell. And these twelve pints, or one gallon and a half is the quantity required for one bushel of seed. The cost of the carbonate of ammonia is about 30 cents a pound at retail ; the plaster costs comparatively nothing ; therefore, if Mr. Campbell's theory be correct, it will cost but 30 to 60 cents to manure an acre of ground for a very large yield of wheat, loats, \&c. The length of time Mr. Campbell left the oats, barley, \&ic., in soak, varied from fifty to ninety-four hours, at a temperature of 80 deg. Fah. renhect. Barley did best when stecped 60 hours. Rye grass, and other graninous seeds, do with soaking fifteen to twenty hours, and clover from sight to ten hours. He does not mention the time
course a much shorter time will be roquired than that for barley or oats; probably ten to fifteen hours would be sufficient.

Having stated Mr. Campbell's theory and given his practice with the results, I must be permitted a little criticism. It pears to me thit the theory itself is a kind of condensation of the old and very deservedly exploded practice of menuring in the hill, without some of its most insportant cdvantages. Suppose a small quantity of this same sulphate of ammoma were placed in the hill with the seed, the moisture of the earth and the rain would gradually dissolve it, and the seeds would readily absorb it to the full extent of their capacity, and tho growing plant would take up as much of what was not absorbed by the seed, as its future growth required. But it is obvious that this would only be of much advantage during the very young state of the plant. Its roots extend every way, far beyond the small place where the salts are: What fur? Are we to be informed that the roots are thus sent out in search of inorganio matter, air and water only? Again, doeq sulphate of ammonia comprise all the elements of nutrition that compose the food of wheat, barley, oats, \&c. ? Let us see. Straw contains 38 per cent of carbon;that is, 100 lbs of straw contain 38 lbs of carbon; and 100 lbs . of wheat contain 43 lbs . of carbon. Sulphate of ammonia con only furnish the necessary (but absolutely essential,) nitrogen, nothing more. If, therefore, as Mr. Campbell asserts, oats soaked in a solution of sulphate of ammonia, and planted in a tilly subsoil taken six feet from under the surface, and in which there is no humus or organic matter of any kind, produced from five to eight stems of prolific oats, then we must conclude that a sufficient quantity of carbon and organic matter to supply the plants with its other elements must have been supplied through the medium of rain water, atmospheric air, \&c. It may be safely admitted that the plants do obtain from these sources, an abundant supply of carbon; but that they do not thence obtain their potash, phosphorus, magnesia, silica, \&c. is well known. Again, supposing there is no magnesia in the soil, whence will the wheat plant obtain phosphate of magnesia, which is an essential portion of all the graminex? Whence, also, will it obtain the silicate of potash, if there be neither potash nor slicic acid in the soil? Will sulphate of ammonia alone, in a soil taken six feet below the surface, and in which there is no humus or organic matter of any kind, furnish all these orany of these essential elemens of vegetable organism? As hinted above, ammonia furnishes to plants nothing but nitrogen; nitrugen dues not enter into the composition of any one of the above named elements, plants receive much, if not most of their carbon from the atmosphere; and why may they not also receive their nitrogen
is composed of oxygen and nitrogen, the latter being four-fitths of its bulk. We all know that they do take carbon from the atmospheric air, throwing of the oxygea, and it is no more than reasonable to conclude that they appropriate the nitrogen to their own-use.*
If this hypotheas be admitted the application of anmona to colls is superfluous. But again, and I will have done with this criticism. Can it for one moment be supposed that a gram of wheat can toke up by absorption, $n$ sufficient quantity of ammones to supply the whole plant, seeds and all, with all the nitrogen, required for its perfection? It mast be borne in mind, while considering this question, that twelve-thirteenths of the bulk of the solution absorbed by the grain, is simple water, and therefore that but one-thrteenth of the same, bulk is sulphate of ammona, that but one-third of of this 15 ammonia, the other two thards being water and sulphuric acid, that about five-sixths of the weight of ammonia, is mitrogen, the other sixth being hydrogen. Hence, wheat steeped as directed by Mr. Campbell, and absorbing the whole of the solution, will contain only one two-hundred and thirtecnth of its own weight of nitrogen, a portion so inconceivably small, as to entitle the theory of Mr. Campbell to the appellation of the Homeophatic practice of agriculture. It is pretty well known to chemests, that grass, hay, \&c. contain one per cent of mitrogen, that is, that onc hundred pounds of hay contain one pound of nitrogen. I have not been able to find any close analysis of wheat, but it must of necessity contan a much larger proportion of matrogen than grass does, on account of its possessing a greater abundance of gluten, an essential element of which is nitrogen. Therefore the additional of half a pound of nitrogen, (which is the greatest quantity Mr. Campell's theory requires, to an acre of wheat, conld only resalt in adding fifty pounds of wheat in the staw to the harvest that would have been yielded without it: that 1 s , that this plan of manuring can only result in increasing the crop, straw and all, of an -cre of ground, fifty pounds. Still, as I stated before, it is worth trying, because the cost of the experiment is a mere trifle, and there may be things in agriculture as well as elsewhere, not dreamed of in our philosophy. In the chemical proportions above referred to, I have only attempted an approach to the various quantilies, but I believe a sufficiently close approximation to exactness has been attained for all practical purposes, especially for that in view.

Baltimore, Aug. 1844. Gideon B. Smirir. -Albany Cullivator.

* I am fully aware that chemists deny that plants derive any benefit from the nitrogen of the arr, because, say they, "nitrogen cannot be made to enter into combination with any clement except oxygen, even by the most powerful chemical means." Are there not many other combinations in the vegetable organism, that the same powerful means cannof produce, but that the chemical mans of nature can and does continually?

Go to Work-There are thousands and tens of thousands of young men among us whose only resource against the accumulated miscries of a destitute manhood, and a disgraceful old age, 15 the workehop of the farm. It is useless, at this day, for every young man to aspire to the lot of living by hes wits, for it is a task in which few who undertake it have the taleat requiste to ensure sucecss. How many there are at present "losing" away the precious years of youth in our citics and villoges, who ought to be acruiring the rudiments of some honorable and useful mrade. Learming is by no means ancompatible with the practice of the arts, for, the more one "knows" the more likely sull he be to succeed, and to do honor both to himself ond the profession in which he is engaged.

## PURCHASING BUTTER.

"Is your butter good?" said I to the farmer.
"Good! my wife has made butter these twenty years, and I should think she ought to knuw huw to make good butter by this time."

## IIe was evidently offended.

" Well, let us examine." The cover was taken of the tub, the clean white eloth (which had been wet in brine, ) rolled up. and the yellow treasure revealed. It certanly djd look good.
"It tastes sweet; but how very salt it is."

- We always make our butter salt, to have it keep this season."

6. Let us sec if the buttermilk is as well worked out as the salt is in."

Some of the lumps were then pressed down with the ladle.
. Now, my friend, (said I,) if your wife has made butter these twenty years, she does not know how to make good butter ; for no butter can be good until all the buttermilk is worked out. If that is done, you need not salt it so baḋ to have it keep well in any place. A very little more care and labor would have made this excellent butter; but lacking that little, it is only a second quality-as you shall ac. knowledge, when I show you a sample of good butter."

We went in, and I took up a roll from a firkin of first rate butter. It was smooth, clear, and handsome; the hand of woman had not been on it from the time it left the churn until now; all the work had been done with a ladle.

- If you will get one drop of buttermilk from that butter, you shall have the whole frec."
"Now, taste this, and taste vour own, and say, honestly, if you would not give a higher price for this than your own. Look at it-see how clear and transparent these minute globules are, and how intimately they are blended with the whole mass. Until those all disappear, the butter will keep sweet ; and no butter will keep long when they are ever so slightly colored by the malk."

The farmer simply remarked, that there qas a difference in butter, and left to find a less critical or more ready customer.

It is strange, that when everybody loves
good butter, and is willing to pay for it, our farmers' wives and daughters do not take pains to make a better article. It's the women's fault that we have poor butter, generally, and we must hold them responsible. It is perfectly casy to make good butter. The only requisite is care. Good butter will always command a good price, in the dullest market; while poor butter is a drug at any price.

When any of my lady readers make butter again, just let them imagine that I am to have a nice bit of bread and butter with them, and that I shall detect the least particle of milk, and am not fond of too much salt.-Nev Genesec Farmer:

NECESSARY HIN'TS TO THOSE THA'S WOULD BE RICII.
Written by Franklin, in 1736.
The use of money is all the advantage thero is in having money.
For six pounds a.ycar, you may havo the uee of one hundred pounds, provided you are a man of known prudence and honesty.

He that spends a groat a day idly, spends idly above sar pounds a year, which is the price for the use of ono hundred pounds.
Ife that wastes idly a groat's worth of time per day, one day whth another, wastes the privilege of using one hundred pounds each day.

IIe that idly looses five shillings' worth of timo. looses five shillings, and might as prudently throw five shillings into the sea.

He that looses five shillings, not only looses that sum, but ail the advantage that might be made by turnang it in dealing, which, by the time a young man becomes old, will amount to a considerablo sum of money.

Again, he that sells upon credit, asks a price for what he sells equavalent to the principal and interest of has money for the time he is to be 'sept ous of at, therefore, he that buys upon credit pays interest for what he buys, and he that pays ready money might let that money out to use; so that ho that possesses any thing he bought, pays interest for the use of it.

Yet, in buying goods, it is best to pay ready money, because lie that sells upon credit expecta to loose five per cent by bad debis; therefore fie charges, on all he sells upon credit, an adrance that shall make up that deficiency.
Those who pay for what they buy apon credit, pay their share of this advance.
He that pays ready money escaped, or may escape that charge.

A perny saved is twopence clear,
A pin a day is a groat a year.
White native Strawberry.-A. Goodwin, Ashfield, Mass., describes in the Mass. Plowman, a kind of strawberry, which he thinks is a native of the Berkshire hills. He says," It is larger than the common field strawberry, very hardy, and yields a great quantity of fruit, producing in succession three or four weeks. When ripe it is of a yellowish white, contrasting. beautifully with the red strawberry. It has a fine flavor, and when picked always cleaves from the hull. I have distributed them in Northampton and West Springficld, whece they are much admired."All. Cult.

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Dalhousie, New Brunswick,
80:h Aug 1814.

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The Collection for the Various Fruits for the Garden and Orchard comprises the most popular and estecmed Varieties known in Europe and America. The Trees are handsome, fhrifty, and of the most suitable Age and Size for successful Trasuplanting " and being propagated by the Proprictors themsilves, wath the most scrupulous Care, ether from bearng Trees in their own Grounds, or from others of undoubted genuineness, and being in overy other respect-in the Cultuvation, Removal, and Packing-under their immediate personal Suyervision, they can be confidently recommended to the most exact and scrutinizing Cultivator.
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|ed, and the earth settled around them before the arrival of heavy frosts.

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