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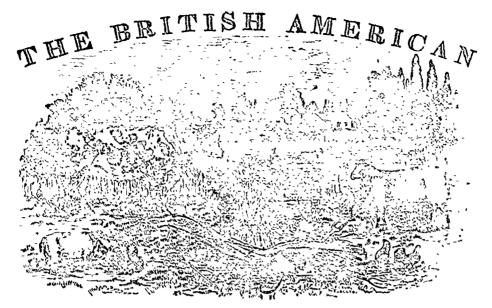
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"AGRICULTURE NOT ONLY GIVES RICHES TO A NATION, BUT THE ONLY RICHES SHE CAN CALL HER OWN."-Dr. Johnson.

VOL. III.

TORONTO, NOVEMBER, 1844.

No. 11.



THE

"Agriculture is the great art which every government ought to protect, every proprietor of lands to practice, and every laquiter into nature improve "-Dr. Johnson.

TORONTO, NOVEMBER, 1844.

MONTHLY CALENDAR.

Much of the work of last month will still have to be continued, especially that of autumn ploughing. In the performance of The injury, however, to the late sown quire daily a small portion of chopped this work, when it is intended that it shall wheat, from this cause, has been consid- oats, or other coarse grains or succulent be cross-ploughed in the spring, it is advisable to expose as great a surface of of clays. In all cases where the prospect &c. soil to the action and me'lowing 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 ground for a spring crop when it is tolerably clear from wild grasses;secondly, if the work is required to be ex. |ter. Negligence in these important mat- of the precepts and morals inculcated on peditiously executed, it may be ribbed, by lters will certainly entail misery and want the minds of the youth of the land at those cutting the furrows double the usual width, upon the farmer. A twelve months stock i institutions, that the happiness and pros-

rowings.

and ploughing only one half of the ground, and the portion ploughed is made to rest neatly upon that not ploughed, 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 asunder,—any or all of these methods may be practised with great advantage upon strong clay soils. In consequence of the recent long protracted drouth, much of the late sown autumn wheat did not vegetate, and consequently the plants are too few in number, and sickly in appearance, for the late sown quire daily a small portion of chopped to be drawn home in the early 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 liberal supply of hay, will roquire daily a small portion of chopped and ploughing only one half of the ground, of firewood may now be chopped, to be erable only upon the strongest description food, such as Swedes, petatoes, carrots,

of a good crop is doubtful, it is by all. Of the various other departments of rumeans desirable to prepare the ground in ral economy that will require the attention the autumn for spring wheat, the seed for of the thrifty husbandman at this season which crop should be sown in the spring of the year, none is of greater importance as early as possible, without further pre- than that of attending to the interests of paration of the soil than a few good har- the common schools. It is in the common schools that the budding genius of the The cellars, stables, and cattle-sheds great bulk of the youth of the country is require now to be put in order for the win- first developed; and it is to the influence

perity of the country greatly depends .-But few farmers' sons aspire to a better education than what they receive at the common schools in their own neighbourknowledge, that competent judges would very naturally infer that they were never have public as well as private duties to their dollar subscriptions. within the walls of a school-room in their perform; and among those that may be If improvements in agriculture and the mechanical arts have progressed in this country, in a less ratio than in other civilised countries, the cause must that your cheerful support will be given publisher. be attributed to the defective educational to these nurseries of the rising generation, institutions that have been in operation. and not to the want of natural capacity for receiving instruction, on the part of the junior farmers. They have been taught in the beaten track which their forefathers have so studiously travelled, and anything 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 themman, rich or poor, appears to act as they care for little else than their own to exist until the public have better informed their minds in relation to the advantages that would result to mankind in as bright as a summer's sun to our view. general, were every individual well informed and in prospering circumstances. standard upon the character of their com-mon schools. Every youth who is pre-thanks for their kind offices; and as the plan will be generally practical by agrisent race of farmers, should thoroughly a sound and permanent basis, we trust ber of their associations with the British ary branches of common school education but rather and in rallying their neighbors be ably supported, it will be proportion—orthography, reading, writing, arithment, by obtaining their support to the The present circulation is between though a thorough knowledge of the fore- only magazine in Western Canada that is 4000 and 5000 copies, and at the end of the going branches may enable a young man exclusively devoted to the agricultural year we shall open a new list and shall of sound mind and clear intellect to make interests. As an evidence that we are commence a new series of volumes witha pretty good appearance when in public, not selfish in our demands upon the public and qualify him through his own future exertions for the transaction of business, still farthing received. Instead of increasing movement will be made by the present it does not follow that a farmer would not the price, we shall reduce it to Sociesubscribers to increase the list to 10,000, be benefited from a knowledge of the higher ties and Clubs. To prevent any mistake, and we have confidence that that number branches of the mathematics, of algebra. in future, we most anxiously solicit each may be circulated with a very little effort, geometry, surveying, trigonometry, astro- of our subscribers to carefully read the if it only be taken up in a spirited manner. nomy, geology, natural philosophy, and following plan of operations a number of even rhetoric. Members of the learned times: The second series of the Cultivator professions, as they are called, are not will commence in January, 1845, each disposed to neglect the study of any of the number containing thirty-two pages on a practical sciences, and we see no just sheet a size larger than the one formerly cultural Society was held on the 9th ult., reason why the farmer who daily toils in used. Each monthly number will be in- near the new gaol; and, we are sorry to improving his own estate, should not be as variably issued on the first day of each say, was one of the worst exhibitions of intelligent in all practical matters, as the month. The terms for a single copy will stock that we have ever witnessed in Toadvocate, the clergyman, the merchant, be as formerly, one dollar exclusive of ronto. There were, nevertheless, a few or the judge.

for entering into a free and social confive dollars; twenty copies for ten dollars. bull, owned by the Hon. J. H. Dunn,—a twester with our subscribers upon every matter of detail that would affect their inced rates, they will be invariably sent to the property and among the rest, we shall not the address of the party ordering them; but the rough bred Durham bull, the property

institutions stand foremost; and we trust are expected to be free of postage to the public spirit.

TO THE SUBSCRIBERS OF THE CULTIVATOR.

upon the past, when the future appears selves.

neglect to point out to them what must be to accommodate parties or clubs as much done before any great and permanent as possible, when the number of copies change can take place in the circumstan- ordered are to be sent to different post ces of their common country. Whether offices, we shall feel a pleasure in directhood; and we are sorry to add, that the advice or suggestions be heeded or ing all the copies that are to be sent to there are scores of young men, who de- not, it will at least be of some consolation each post office, to the address of any genlight to be called tillers of the soil, within to us, that we have fearlessly, and without tleman that may be named, by the party our own circle of acquaintance, who exhibit favor or reward, performed our duty as a such an indifference for the acquisition of public journalist. In the mean time, we well understood that no list of individual would say, that you as well as ourselves, subscribers will be kept but those who pay

> No credit in future will be given, tho styled public, the fostering care and at- terms being so low, that exceptions to this tention to the interests of the educational rule is impracticable. All remittances

It is truly desirable to make the Cultiand that your sons and your daughters vator a correct record of Canadian agriwill become intelligent and universally cultural improvement; and this object can esteemed for their love of literature and best be accomplished by aiding the editor in his arduous enterprise—we mean that to further the work to the greatest possible extent, that such of the Canadian farmers as are capable of writing for the press, As the year is nearly brought to a should aid us with their contributions. close, we embrace this opportunity to lay It is not to be expected that we can afford before the readers of the Cultivator, a to pay contributors to our journal, as is brief outline of the manner in which we the practice in old countries, but to indemselves or their country. Almost every hope to see the paper in future conducted mify such as may favour us with useful and supported. In reviewing tre past, practical contributions upon agriculture, we behold a host of difficulties, wh ch but | we shall make it a standing rule to send selfish interests. This evil will continue few of our year, would have surmounted; a free copy to each correspondent, and pay but why should we for a moment reflect the postage upon the correspondence our-

Agricultural societies are especially Those of our friends who have borne like invited to exert their influence in circulatourselves, the heat and burdens of the ing the Cultivator. We advise each of If the farming community desire to pros- day, in sustaining the Cultivator to its pre- our present subscribers to get their paper per, they must not fail to place a high sent standing, will be kind enough to re- at the commencement of the year through paring himself to take the place of the pre- work is beyond a doubt established upon cultural societies, of furnishing each memmake himself acquainted with the ordin-that none will relinquish their support, American Cultivator, and then as it will

HOME DISTRICT AGRICULTURAL SHOW.

The Annual Show of the District Agripostage. As an inducement for farmers specimens of animals on the ground, that As the evenings are now getting long, to club, to get the paper at reduced rates, could scarcely be excelled in this or any we shall have much time at our disposal we offer the following :- Eight copies for other country. A thorough bred Durham

lent animals. A number of well fed bullocks, we believe the property of Mr. T. Nightingale, were objects of general perty of Mr. John Cade, Whitby, were the best wheat growing townships in the also very justly admired. The few samprovince, and is settled principally by ples of fall and spring wheat exhibited, English, Irish, and Scotch farmers. were of very excellent quality, and especially the latter of the Siberian variety. 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 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 exhibition, 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 District, we have still a glimmering hope that our former anticipato 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 AGRICULTURAL 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 emulation in the productions of the soil.

TOWNSHIP OF CHINGUACOUSY AGRICULTURAL SOCIETY.

printed notices, which we sent to the in any other district in the province. above township, that a meeting was held a strong proof of the good sense of the far- | tion.

of Mr. Thomas Cosford, were all excel- at Westerfitt's Tavern, and a Society or | mers of the County of Haldimand, we ganized upon the same basis that the others were formed in the District. And also, that the attendance was pretty general,

> 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 AGRICULTURAL SOCIETY

The first cattle show of this Infant Agri-Niagara District, but when the circumagriculture, is but little known or appreciated among the great mass of the populamost interested in the matter. But few portions of the province present such a der notice, and probably none is better prepared for a general co-operation in effecting their improvements. From our knowledge of this district, we are preparganizing township branch agricultural societies, that the people are as well prepar-

would make a short quotation from a private letter from one of the leading officers of the Haldimand Society. "I am happy praise; and a few tups, and a pen of ewes, and that a large list of subscribers were to find that our exertions in the society are of the improved Leicester breed, the pro- had on the spot. Chinguacousy is one of 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 society. I understand from those gentlemen who have taken the lead in the discussions, that they are do-At first but ing a great deal of good. few joined, now nearly the whole township have taken it up with spirit. They meet monthly, at which meetings a variety of interesting agricultural subjects are most freely and ably discussed." The above cultural institution took place on the 4th is certainly most gratifying intelligence to September last, at the village of Cayuga. us, and especially so at this particular The day being propitious, the attendance crisis, as we have resolved to loose no opagricultural topics; those delivered by the of farmers and others favourable to the portunity, in advising the supporters of President of the Society, W. B. Jarvis, cause was both numerous and respectable, the Cultivator to assist in the establishment the Beard with much attention and applause. It was our intention to have given a report of those speeches in full, but owing ties in the Niagara District, the one unamount of useful information that is publications and respectable, and all were seemingly much delighted with the proceedings. We understand that there are only two agricultural societies in the Niagara District, the one unamount of useful information that is publication. der notice, and the Parent Society, each lished upon agriculture; and a very probably numbering about 100 members. large proportion of the modern works up. This of course is highly creditable, when on the science and practice of husbandry, This of course is highly creditable, when on the science and practice of husbandry, compared to the state of some of the agricultural societies in other districts, but the number is trifling 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 correspondent has very correctly concludated that the establishment of farmers' clubs and libraries, would be an available are numbering more than 100 members; and and libraries, would be an excellent preglimmering 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 ligence of the farmers of the Niagara go into operation at the same time. An District. We have been informed that it annual subscription of five shillings to has been with much difficulty that the two societies jointly have raised by subscription sufficient to entitle them to the annual grant of £200. This fact would ap
If the Agricultural Magazine, which each pear strange to an individual who is well member of the township society would reacquainted with the vast resources of the ceive, were conducted with that ability, that the circumstances would warrant, if stance is taken into consideration, that township societies were generally organthe benefits resulting from the influences ized upon this plan, it would be worth to of associations for the improvements of each member deable the subscription. In fact, if a general spirit of improvement. were infused among the agricultural classtion, it will no longer appear a matter of es, it would be extremely difficult to estisurprise that so much indifference is man- mate the value of a journal that embodied isested by the parties who should be the the essence and spirit of those improvements in its columns.

Every man who has watched the prowide field for improvement as the one un- gress of agriculture in the old world, must be sensible of the benefits that would follow from the universal organization of agricultural societies, farmers' clubs and libraries, in this country; and we trust ed to say, if a plan were set on foot for or- that all who are apprized of the advantages that must follow from the establishment of these associations, will urge their neighed to acquit themselves with credit in the bors and friends to join them in the laud. We are informed that agreeable to management of these societies as they are able and patriotic enterprise of endeavor-As ing to carry these associations into opera,

We copy the following article from that farmers then, must first set the example, ford children of poor parents an opportunity of acexcellent paper the Albany Cultivator .-The propriety of having agricultural schools, in connection with model farms established in this Province, is clearly and local and general agricultural socieshown, by the apathy which is evinced or the part of the junior farmers, in adopting measures for the general improvement of the agriculture of the country. This indifference upon matters of so much real importance to themselves and the nation, can only be removed by improving the tastes and cultivating the minds of the rising generation. Agriculture being the chtef employment of the population of this country, it is only rational to infer that it should be the principal object of improvement by those who govern and are governed, by those who are in exalted statical 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 establishment of agricultural societies, such as we have frequently pointed out to the Canadian farmers, that the moving power to the several other associations requisite to secure the greatest possible amount of prosperity to the farmer and the country is to be given; and until only by establishing agricultural schools and colthe patriotism and intelligence of the people have been directed to this true channel of real greatness, we need searcely the civilized world. Our duty now manifestly is, for planting, or for spreading manure, care is tahope that other and higher measures will be taken to advance the prosperity of portions. The causes of the difficulties changes agriculture. may be solved, simply by the negative or perience to avoid their fate. positive answer to the question-Canapositive answer to the question—Cana- continued and flourishing existence of schools, lian farmers, will you aid in this great which are widely illuminating the toil of the cul-work of agricultural interesting. work of agricultural improvement! II the former be given, then it will follow as mons. They may be most conveniently treated months of the former be most conveniently treated months and the former will under two heads. These which, to an academical a matter of course, that the country will remain as it is at present, at least twenty years behind the age in general improvement. If the latter be colored throughout the length and breadth of the land, then may we hope to see the country rise, and agriculture take the stand which legitimately belongs to her. No true friend of his country can remam neutral or indifferent to the success of such institutions as are calculated to develope the latent genius of the country; and probably no class of associations could be devised, that the student's labour becomes his own, and is gencould be made so available to the practical farmer, as agricultural schools and model farms-and these can only be successfully established in countries where the people are aroused to the importance of the advantages that would accrue from a general spread of practical and scientifir knowledge of agricultural topics. The those authornes we have neely quoted

by laying the corner stone to this great structure, which will be found to consist ing processes in supporting agricultural publications ties : and when the government is apprised that they require aid, it will no doubt be ber as the first became subject to the admirable aberally granted them to any reasonable daum, has successfully established an institution amount. Nothing could be more congemal to our feelings than to see institutions springing up throughout the length and breadth of the land, such as are mentioned in the following communication; and labour to repay the expense of their maintenance every thing shall be done in our power to convince the Canadian agi lation, that it is as necessary that they should have institutions established adapt-I to their calling and circumstances, for the proper education of their youth, as it is that colleges and universities should be established and chartered for the educa. tion of students for the learned professions, as they are termed.

AGRICULTURAL INSTITUTIONS

BY ALFRED L. KENNEDY

That the ignorance of true theories and improved processes of agriculture which prevails in those sections of our country, can be radically removed leges, is a proposition that receives the universal assent of intelligent men. The question on the necessity of these insultations is settled throughout to adopt the best plan, and then to put it in exe-cution forthwith. This duty is of no mean proand failures of like projects, must be well studied ! The whole problem then ore we can expect to profit sufficiently by their experience to avoid their fate. That these difficulparticulars of the most pronument of these instituunder two heads. course, unite the theory and practice of agriculture, and those which teach agriculture only.

The Schools of the first class, are based upon the institution at Hofwyl, in Switzerland, under the direction of its noole founder, the philanthropic most striking manner to lead the pupil to the M de Fellenberg * It consists of three schools, interes and influence of the number of interary, agricultural and intermediate In addıtion, lectures to teachers are annually given. The literary school commenced by the introduction of ation, first in reference to colour, hardness and three children into the many of the first building was erected for it. In a few years the number of professors gradually interest to 90 and the purals to 80. The studies three children into the family of the principal. In In a comprise, in addition to those t right in our colbiges, music, dancing, fencing, and cabinet-making. The latter gives facility in the use of tools, menes habus of industry, and as the product of erally s nt home as a present, nearness of execution and filial affection are encouraged

The object of the Agricultural School is to af-

quiring an excellent education, while they gain a practical familiarity with the most improved farm-This was commenced in 1808, under the most unfavourable auspices. The children were of the worst possible descriptionbrought up in idleness, they were herally taken from the hedges and highways. Yet by receiving a few at the onset and slowly increasing the numwhose benefits have excited the admiration of the friends of education every where.

"The pupils are admitted at an early age, there being, however, no fixed limits, and are expected to remain until 21, if supported gratuitously. By so doing, they would be enabled by their manual and education, so as to leave the institution without pecuniary obligation. They would besides bo detained beyond what is considered the most critical age. In practice, however, it is found difficuit to induce this lengthened stay, the actual expediency of which must depend so much upon individual circumstances In addition to the gratutious pupils, others are taken, who pay in past or entirely for their education. In summer, the time occupied in labor is from eight to twelve hours per day, and in instruction from two to four hours. In winter, the amount of labor is less, and ofstudy more During the time of harvest and hay-making, the instruction is omitted altogether."

In winter, the hours not devoted to the care of cattle, threshing, and other farm labour, are cmployed in the agricultural machine shop in making bashets, straw mats, in selecting seeds, and in breaking stone for repairing roads. The pupils are encouraged to labor on their own account. Each has a small portion of land for the culture of vegetables ad flowers, the profits of which are his

As an example of incidental instruction, we subjoin the following

"In laying out the ground for different crops, ken in determining the points, in drawing the imes parallel, in measuring the distances, and the intervals of the plants with the eye or by paces. The number of plants or heaps of manure is calculated, and the whole is a lesson in geometry and arithmetic, as well as an exercise of accuracy and foresight."

"In cutting the trenches for watering an artificial 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 without descending below its level; and and others sull place the sluices necessary to prevent excess in on part or deficiency in another. All the e operations are practical lessons upon the laws of gravitation, and are often employed in the istence and influence of this universal agent. If the pupils are engaged gathering the stones out of the fields, these become the subjects of examintexture, then the uses to which they are respectively applicable, and finally their name, either in the moments of rest, or in some of the lessons of the day. The instructions thus received, are recaded almost involuntarily at every fresh operation of the same sort; and such associations serve to divest this lowest of agricultural occupations of its purely mechanical character."

" If they are clearing the ground of weeds, tho name, characteristics and qualities of each one are made the subject of remark. The relative effect of sun and air and moisture and cultivation, upon these plants and those of a useful nature, is necessarily brought to view by the observation of the pupil, and by the instructions given him, and inferences are then drawn as to the best mode of exterminating them."

The intermediate school was established to supply an education for the sons of the "middling classes," in a style correspondent to that of the parental roof. Free from the glare and show that

^{*} For an acquaintance with this distinguished man and his noble undertaking, the English reader is mainly indebted to Rev W C Woodbridge, Editor "Annals of Education," to Prof A D Bache, in his able report to the Councils of Philadelphia, on Education in Europe, and to " Leiters from Hofwyl, by a Parent," London, 1812 From

frequently attach themselves to boarding schools, and give the pupils fondness for fashion and extra vagance that ill comports with home notions. Farm labor, however, forms no part of the course.

The success of Hofwyl led a number of wealthy friends of agriculture in the north of Ireland, among whom was Earl Spencer, to project a simular establishment there. This led to the Institute at Templemoyle, six miles from Londonderry.— Believing that similar benefits would accrue, it was proposed, as at Hofwyl, to establish both a Literary and an Agricultural College * This was abandoned 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 princi-ples and practice of agriculture Pupils are received from 15 to 17 years of age; and three years are considered sufficient to complete the course. In 1837, 66 young men were preparing themselves for the thorough management of farms. The aunual charge for maintenance and tuition, (about \$50) is no. sufficient for their support. For convenience the pupils are divided; one half being with the teacher, the other in the fields, thus working and studying alternately. Ten hours a day ing and studying alternately. are thus appropriated.

"The direction is vested in a committee 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, who divides the time of pupils with the farmer and the Matron who has charge of the domestic economy of the establishment, under the direction of the farmer and instructor."

a farm of 150 acres, and with a system whose details are marked by great simplicity, an institution, 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 because of the highest practical benefit. than in hearing the encomiums passed upon both school and pupils by former residents of the neighborhood-a gratification of course mainly derived from the anticipation that thus encouraged the farmers of our beloved country would be quick to fornish their own sons with similar instruction

Class 2d. Schools for special instruction.

As an example of what has been done, and shall we not say, may be done? when Agricultural So-"The Agricultural Institute of Wittemburg," is well deserving a notice. This was founded in 1817 by the Agricultural Society of Wittemburg, under the patronage of the king, who devoted a royal seat with extensive buildings to the purposes of the Institution. There are two departments in 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 chief end. In the higher, for tuition, natives pay \$40, foreignen \$120 per anuum; and for meals, &c., paid in advance to the steward, \$40. In the lower, natives are admitted gratis, if their circumstances require it, otherwise \$40 for three years. The officers are appointed by the Agricultural Society. The Director is an Instructor, there are also a Treasurer, four regular and four extraordinary Professors, besides an Overseer and Steward;
number of students in 1837 was 99. Applicants for admission must be 17 years of age, and possess the necessary qualifications for the prosecution of the course. The pupils of the lower school are

engaged in operations on the farm, garden, &c. himself to meet a considerable proportion

The agricultural course of the higher school generally requires two years, required for that of forestry. The same period is

Branches of special theoretical instruction -Agriculture -General principles of farming and horticulture, including the culture of the vinc, the breeding of cattle, growing of wool, rearing of horses, raising of silk worms, arrangement and direction of farms, estimation of the value of farms, book-keeping.

2. Forestry .--Encyclopedia of forestry, botany of foresis, culture and superintendence of foresis, guard of forests, hunting, taxation, uses of forests, technology, laws and regulations, accounts, and technical correspondence relating to forests.

3. Accessory Branches .- Veterinary art, agricultural technology, especially the manufacture of works General courses:

1. The Natural Sciences .--Geology, physiolonoxious to plants and trees. General chemistry, and its applications to agriculture, physics and meteorology

2. Mathematics .- Theoretical and practical geometry, elements of trigonometry, arithmetic, elements of algebra.

The farm of 960 acres 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

the country There are collections of soils for analyses and lectures, philosophical apparatus, library and laboratory. also a cider press, beet sugar manufactory, brewery, distillery, and vinegar manufactory.

We have already extended this article much beyond our intended limits. We have written, that the reader knowing what has been done, may be the better enabled to form a tangible idea of what i he should assist in doing, viz . blessing our country with like Institutions

Philadelphia, July, 1844

CANADIAN MANUFACTURES.

The long-looked for period has at last arrived, that the capitalists of this country ufactured 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 observation, 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 imthe buildings at Templemoyle. Various other domaions have been made — Bache's Report the careful of the manufacturing of woollen cloths, blaudent from 1s. 101d. to 2s. per lb. The above kets, carpets, &c., and will be able of range of prices is about 20 per cent less

receive instructions, and are paid for work done, of the demand in these articles, in the by which they are enabled to defay the expense of maintenance. Those who display great skill and industry, receive premiums.

The entire the higher sheet of the higher sheet of the particle of the property of the of capital in the same business. In addition to these, we know of three gentlemen who many years since retired into private life, after accumulating large fortunes in their respective professions, have severally associated their capital and names with parties who are already to a limited extent in the manufacturing business, and who are among the most clever practical mechanics in the country; and from their joint influence and exertions, calculate to furnish as good and as cheap an article of strong woollen goods, such as are adapted to the circumstances of the counbeet sugar, brewing, vinegar making, and distil-try, as can be purchased elsewhere, for ling. The construction of roads and hydraulic, this market. A company is being formed this market. A company is being formed at Sherbrooke, C. E., to carry into opergy of plants, betany as applied to agriculture and lishment, with a capital of \$25,000, in shares of \$100 each,—the machinery of which is to employ 1000 spindles, capable of turning out 300,000 yards of cotton cloth per annum. In addition to the foregoing, there are numerous other establish. ents of enterprise in progress in various parts of the Province, for the manufacturing of almost every necessary article in domestic use. The Canadian Farmers and mechanics should hail such information as this as an harbinger of better and more prosperous times; but the ultimate success 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 afforded on nearly as liberal terms. It is all very well to have a foreign market open for the surplus staple produce of the country, but to ensure success to the various farming operations, we require a remunerating market for other than export articles, which can only be furnished us by encouraging and efficiently sustainare turning about in their mind's eye to ing manufacturers, who are as great prodiscover other channels of investing money ducers of wealth, in comparison to the than locking it up in wooden or brick extent of their business, as the agriculturwalls, in the purchase of large tracts of ists themselves. It therefore behaves wild lands, or even in the importation of every true lover of his country to caresuch articles from the United States as fully guard the interests of the manufacmay be successfully and profitably man-turer 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. price that the article is worth depends very materially upon the quality of its staple, and the care which is bestowed in preparing it for market. Leicester wool will probably be worth from 1s. 3d. to porting merchants in Toronto is now mak- 1s. 6d. per lb.; South Down from 1s. 6d. ing arrangements to engage largely in to 1s. 9d. per lb.; and Merino and Saxon

^{*} To establish the schools, one hundred and sixteen shares of \$125 each were subscribed by different Companies and individuals, and 86,000

than the woollen manufacturer of Massachusetts pays for the qualities mentioned; and we have noticed a number of reported instances where large lots of long wool had been lately sold for 30 cents per lb., a natural consequence, manufacturing and the finest qualities of Saxon for 65 towns and cities will spring forth as it cents per lb.; with these prices (the production of the new tariff,) the American farmers have been encouraged to enthe quality of wool to that degree, that country will enable them to produce .sheop-husbandry in whole sections of Canadian farmers, look at this! In trad-With these prospects in view, it is to be hoped, that the Canadian farmers are abundantly intelligent to properly appre-

We copy the following article upon manufactures, from the Sherbrooke Gazette, which, if carefully ead, must have the effect of convincing ever candid reader of the propriety of giving every reasonable encouragement to domestic manufactures. It may be argued by some, that by establishing extensive manufactories, ests? or will any be found so short-sightwe are injuring the trade between this ed as to fancy, that by embarking capital and the mother country, and thereby causing the interests of the parent and child to clash; this argument, however, will be found by experience to be falla- by our intelligent and numerous readers. cious. When the Canadian population In order that the country in all its departthink 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 strange that our amount of floating capifor the want of a profitable market for the tal is so limited, or that there are so many produce of the soil. A market is now opened on the most liberal terms for the staple articles of this colony; but it frequently happens that the prices for breadstuffs in the mother country are so low, that they have to be sold here at rates that searcely remunerate for the costs of production. This should not be a matter of complaint with the colonists, so long as their surplus produce is admitted into the British markets upon about the same conditions that British manufactured goods are brought into the colony; but what we object to is, that there is no permanent market for the various other articles of there has been a constant stream of capifarm produce that cannot be profitably talists and operatives from Europe, flowexported out of the country. This market ing into that country, who have very macan alone be secured to the people of this terially aided our enterprising neighbors country, by encouraging domes to manu- in carrying out very many of their enterefficient means are taken to concentrate have erected branch establishments in the much of the almost worse than idly em- United States, with capitals varying from ployed capital of the country into the £10,000 to £50,000 each; and the divicrection and employment of manufacture dends upon those capitals may be ima-

that it is to their interest to encourage men of enterprise to embark their capital and their skill in the business, then, as the surrounding districts will obtain remunerating prices for every description \$42,000,000 of capital that the rocky, barren State of Massachusetts has actuciate and enjoy every advantage that can be gained from having a profitable and permanent market established for their wool.

considerable proportion of which has reading of the annexed ably written and been drawn from the British Provinces highly instructive article.

MANUFACTURES.

cd goods—and for what? to drain your (From the Sherbrooke Gazette.) pockets of your hard earnings, and to enrich the United States farmer. Will been given to the enterprize of Canada by means this state of things be any longer tolerated of internal improvements and the establishment by the strength and sinew of this country? the face, will any remain indifferent to the country, and ought consequently to be its eethe success of the manufacturing inter-tablished policy. in manufacturing, that just so much is diverted from its legitimate channel?ments should fourish, 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 will no longer appear 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, the "brightest gem in the British crown."

From the period that the present high tariff of the United States came into force, When the period arrives that prises. Manufacturing houses in England ing establishments,—and when the Cana- gined from the fact, that it is common in

dian population have become satisfied that country for joint-stock manufacturing companies to declare annual dividends of from 15 to 20 per cent upon the bona fide capital invested. This fact is well known in England; and it is only reasonable to suppose that the unemployed capital of were by magic, and the agriculturists in the old world would seek the safest and best market in the new.

It appears that the proper time has arcrease their flocks of sheep, and improve of articles that the climate and soil of the rived for to discuss the important subject of domestic manufactures; and as this branch is so closely allied with agriculcountry has become the principal depending the short period of nine years with ture, we shall deem it a pleasure, as well ence of the farmer. The prices which your neighbors in the United States, you as duty, to express ourselves freely and we have supposed that wool will be worth have incurred a loss to your country of candidly upon every point that has a in this country, in the course of another upwards of twenty-two millions of dollars, bearing upon the manufacturing interests. year, if realised, will remunerate the or at least the balance in trade has been In doing so, we shall endeavor to be offenwool-grower to a much greater degree that enormous amount against you. Now sive to no party—our sole object being to than any other branch of husbandry.—it is as clear as noon-day, that of the aid our fellow-cotemporaries in the development of the vast resources of this barron State of Massachusetts has actu-ally employed in manufacturing, that a on the part of our subscribers, a careful

of manufactures, and it is now understood by in-telligent men that these are the great engines With these startling facts staring them in which bring into active operation the resources of

The establishment of manufactures in Canada, would introduce a system of economy, which would be approved and adopt d, and keep the expenditure of the country within its income; and lay firmer and broader the foundation of our com-We leave these questions to be answered merce, by increasing and diversifying our productions and the objects of exportation, and thus onlarge the commercial capacity of the nation.

The following statistics, connected with manufactures, (taken principally from Hunt's Merchant's Magazine,) will show the importance of this subject to the people of this Province.

The United States with a consuming population of nearly 18,000,000 have 1,240 Cotton Factories, and a capital invested in the same, to the amount 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 supplies her home consumption, but exported ir 1842, to foreign markets, manufactured cotton goods to the amount of \$2,975,541

The population of Great Britain in 1841, was 26,857,028 the most industrious and wealthy nation in existence. The cotton interest in England, is as follows—Capital invested, \$247,500,— 000, annually manufactures \$190,000,000 value, and employs 1,837,000 persons, and the great outlet for cotton goods, is through her enterprize, imnerse capital, and colonial possessions. In 1831 England exported to her North American Colonies 15,618,061 yards of cotton goods in 1840, 24,139,692 yards, and to the British West Indies 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 cotton goods, 40 per cent of which went to India and China

The following shows the Imports and Exports between the United States and Canada, as taken from public documents at Washington, from 1832 to 1841. The exports from the United States to Canada were \$40,645,643 the imports to the U S from Canada were \$18,480,234 leaving an excess 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 25th of July 1843, were 930 pack, ages, the duties of which amounted to over \$3000.

The value of British Cottons, Woolen, Lines.

and Silk Manufactures that found a market in Canada from England between the years 1832 and 1839, as taken from official documents, is as follows: Cotton goods, £2,630,969 sterling, Linen, £417,154; Silk, £460,503; Woollens, £1,-919,023, a yearly average of cotton goods £323,-870 or \$1.461,644; silk, £58,123 or \$258,334; woollen, £239,878 or \$1,066,126.
The total amount of exports from England to Canada from 1832 to 1839, amounted to £12,-

886,933 sterling; during the same time Canada exported to England £7,844,411 sterling.

The City of Boston exported manufactured cotton goods to the East Indies, Sandwich Islands, North West Coast, and South America, from the first of January 1843 to October 31st, 1843, to the amount of \$1,124,898.

The consumption of cotton goods in the Canadas is rapidly on the increase, and any material advance in the existing prices of raw cotton in the United States, must arise from over issue of currency, or speculative operations, and consequently cannot be maintained. Taking the fu-ture prices of cotton suitable for manufacturing three fourths of all the cotton goods made in the U. States, to range from 6 to 9 cents per pound, laid down at the Factories, the articles of heavy grey cotton, cotton drills, cotton duck, negro cotton, cotton yarns, &c. &c., can be manufactured in Canada cheaper 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 British West Indics, with cotton 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 British ports, it does appear that Canada has the ability to succeed in this branch of business beyond England or the United States; and were she to become a manufacturing 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 establish the prosperity of her factories, than any additional tariff Congress could grant; and with foreign countries is yearly on the increase.

The manufacturing of cotton goods in the U. States commenced in 1816. Since then, the prices have been reduced on an average two-thirds; it is scarcely possible to name an article of home manufacture, that has not been cheapened and this too in the midst of increased wages

of labor, and high prices of agricultural products.
No country is more favorably situated for manufacturing than Canada.

The freedom of its institutions, must naturally bring into active 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 are based upon the same principles, and that nagoods cheaper in the U. States than in England; usual prosperity is but the aggregate of indiviand that the coarser cotton goods, such as are
dual prosperity. The United States in 1842,
made in the United States, rival the manufacraised 441,829,246 bushels Indian Corn, and the tures of Great Britain in the Canada market.

Since then we cannot consistently secure to England this branch of her trade, we should by than 440,000,000 for home consumption,

all means afford every facility for making it an

object of Colonial industry.

Massachusetts with her 737,000 population, has a capital invested in manufacturing of \$42,000,-000, and annually manufactures over \$80,000,-000, and yearly imports the products of other States to the amount of \$40,000,000. This shows how she encourages and protects the labor of her own people and promotes a free inter-change 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 million dollars. Lawrence company with a million and a half dollars capital, 10 per cent also the Boot, Low-ell, Suffolk, and Tremont Companies, each declared the same dividend.

Lowell, (the Manchester of America,) twenty years ago contained only 200 inhabitants; now, it embraces a population of 30,000: the capital invested i \$10,500,000 number of operatives 10,-000, of whom 7,000 are females, the average monthly wages are \$170,000, and they yearly manufacture 73,833,400 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 increase the productions of labor by diverting a portion from pursuits already overstocked, to other more valuable employment, and thus develope more fully the re-sources 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 manufacture of hosiery or any of its branches, neglected, seemingly as unworthy of notice, while in other countries it has been considered one of the most important branches of their multiplied manufactures, and is sought after as the safest and most lucrative investment; as for instance, take the large establishments at Nottingham and Leicester, employing some 40 to 50,000 Knitting Looms, and a capital of from £50,000 to £2,000,000 each. The larger number of proprietors of these establishments or their fathers before them, were once but poor workmen, working with their own hands, have made these m.mense fortunes by the manufacture of hosiery. It is a fact that all the Knitting Machines in Europe art conduct-

ed and worked by hand.

The nations of Europe are more or less engaged in the culture and manufacture of silk. France more than any other country derives her power and resources mainly from this branch of her in-dustry; her example has induced England, Holland, Germany and Sweden, to engage, with zeal in the same pursuits. The expense of manufac-turing silk in Canada, would not be more than in Europe, as the state of society here is well adapted to promote the successful manufacture of silk, as it is an employment in which females and children may be honorably and profitably engaged .her trade for articles of domestic manufacture Between the years 1821 and 1828 England imported 24,157,568 pounds of raw silk, which when manufactured, was worth £120,770,580 sterling, manufactured, was worth 2120,177,000 attains, or \$536,222,237, making a yearly average consumption of sitk, of £15,096,322, sterling, or \$67,027,779, of which England does not raise one pound of the raw material, and gives employment to more than 400,000 people. The raw silk could to more than 400,000 people. be taken from custom house bond in England and brought to Canada at a small expense.

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 prosperi-ty of the whole country We should go upon the assumption that national and personal economy commercial documents snow mas only about the bushels were sent out of the country, ledving more bushels were sent out of the consumption. The

importance of a home market will appear from the fact that the New England States, the Amorican seat of manufactories, consume annually beyond their own productions about 7,000,000 bushels wheat, which is about 500,000 bushels more than the average export from the whole country for the last five years Of grain other than wheat, Massachusetts and Rhode Island consume of other grain growing states to the amount of 3,675,000 bushels, which is nearly three times the amount that is yearly sent to a foreign market Massachusetts alone annually consumes the products of the other states to the amount of \$40,-000,000, which is equal to one half the annual exports of the products of the United States exclusive of manufactured articles. In the United States 1,000,000 of her population are engaged in the various branches of manufactures. All these are consumers of ment and grain, and this market is worth more to the farmers of the Middle and Western States, than all other markets in the world. If she were to estimate the value of the products of the soil consumed by them to be but 123 cents per day each, it would in a single year amount to \$182,500,000 It is estimated that the manufacture of Iron alone annually consumes nine millions of the agricultural products. The total amount of capital employed in manufacturing, mining and the mechanic arts, in the United States, is \$400,000,000, and I have no hesitation in saying that this sum thus invested has increased the value of real estate in that coun-

try vastly beyond that amount.

The price of land and of agricultural products. depends much upon their proximity to market. Go through the country, and you will see land of the same intrinsic value selling for agricultural purposes at prices varying from \$2 to \$200 per acre, when the main consideration affecting the price is, their nearness to a market. Wherever manufactures, and the mechanic arts flourish. there is a demand for agricultural products at romunerating prices, so that the cultivators of the soil receive their full share of the benefits by the operation, and whenever a village springs up from manufacturing or other causes, the price of land is increased for miles around, and the farmer finds a market for the production of his soil near his own door, and not only do the great staples of agriculture increase in value by this home mar-ket, but a thousand nameless articles, assume a value unknown before. A market in a manufacturing district, at home is always more sure than any foreign market, the demand is constant and to be relied upon, whereas the foreign market is always uncertain. In fact the whole face of the country becomes changed, and the population are thriving, industrious and happy.

This recapitulation of the advantages of Canada for manufacturing purposes, and also calling into active operation her natural resources, domand the especial attention of her politicians and capitalists, and although it has been reproachfully observed, that in Canada, the arts, manufactures, &c. were half a century behind the age, yet still the spirit and energy of her people have either been misunderstood or perveited, and it remains to be shown, that in the full development of both, they have only been waiting a suitable opportunity.

An extraordinary Durham Milker .- Mr. Hewer, of Charlton, near Brackley, Northamptonshire, has a cow from which was made nineteen and three quarter pounds of butter last week; the cream skimmed but twice, without second butter. It is supposed by competent judges that this cow will produce twenty-four pounds of butter a week if second butter is churned. She is of the Durham breed, and a remarkably fine beast, six years old. Her feed is grass and a little hay only! She gives eight gallons of milk per day. - Northampion Herald,

CULTIVATION OF FRUIT -No. IX.

The Plum.—Those who have seen only the common varieties of the plum cultivated by farmers in this state, can have but a very imperfect idea of the flavor and excellence of the most improved va-When the same labor in cultivation, with a little additional care in procuring fine sorts, would afford the very best fruit, it is to be regrested that ninetynine hundredths, or even more, of the fruit cultivated, should be scarcely fit for To facilitate in procuring better, the following list, with remarks, is given.

White Primordian, Early Yellow, or Jaune Hative, is one of the very earliest of plums, ripening generally in western New-York about the middle of the seventh month, (July,) and is chiefly valuable on this account. It is a small yellow though not first rate. It appears to be

the best plum at the season.

Wilmot's Early Orleans .- This is a

month (August.)

Green Gage. - This is generally admitvity; the skin is yellowish green, when unknown. fully ripe nearly yellow, motifed with rus. The plu our finest varieties of apples.

much larger than that of the Green Gage, ceis by examination, as these crescent- Hence favorite trees of the plum, nectaand the tree very productive. Manning shaped incisions are very easily seen. The egg soon hatches into a small white advantage near such frequented places, and the fruit will escape. The black excessions of the plums. The egg soon hatches deeper and feeds and the fruit will escape. The black excessions of the plum that the fruit causing it to fall premature of the plum that the fruit will escape. town (Mass.) owned by S. R. Johnson, turely to the ground, or if it ripens, it is may be prevented by a constant and vigohas for several successive years yielded unsound and gumny. The worm, when rous excision of the affected parts, and crops which were sold at from \$40 to \$50 the fruit falls, makes its way into the burning them as fast as they appear.

genuine.

freely from the stone An excellent fruit,

Huling's Superh.—Fruit very large, often two inches or more in length, not inferior in richness, but more acid than the Green Gage-ofvery vigorous growth, and of extraordinary excellence.

yellow, with a fine blush next the sun; ilesh yellow, firm, sweet, and excellent. of some other varieties, it is highly esteemed as a first rate plum. Ripens about a week later than the Orleans.

lest late plums.

Coc's Golden Drop .- Fruit of large size. skin golden yellow, spotted with rich red next the sun, flesh yellow, sweet and delicious. Like the preceding, slightly be destroyed by a pinch of the thumb and necked next the stem, a clingtone, and a fruit, a good bearer, with a sweet taste, great bearer. The pest late plum. The writer has measured them more than 24 inches long.

The Egg Plum, or Yellow Magnum largefine fruit, ripening early in the eighth Bonum.—Is a very large plum, of a is rather coarse, is chiefly used for cook- of jarring the tree strongly, will be perthe stalk half an inch long, a little bent, is harsh and acid. These two are admissecond volume. "Not three days ago, I and inserted in a small funnel-shaped ca- red as table fruit where finer varieties are saw that many of the plums were punctur-

this State under the name of Breen Gage, Curculio. This is a small insect with an the hand, I caught twelve more; and on quently found in the gardens of our farm- with lighter colors, the body resembling we caught in less than an hour, more than ers, and are also denominated the Green in size and appearance a ripe hemp seed. two hundred and sixty of these insects." Gage, though they no more resemble the About the time the fruit attains the size genuine fruit than the wild crab resembles of a large pea, it commences its work of quented places, are frequently observed to Prince's Imperial Gage was obtained from the young fruit and lays its egg in the troyed. The insect is frightened away the seed of the Green Gage; the fruit is opening. Its presence may now be perper annum." Some trees in western earth, where it remains through winter, New-York, called by this name, are not as is supposed in the pupa state, to be ed as only fitted for heavy or clay soils; Orleans.—Fruit nearly round, middle perfect insect and thus to perpetuate its proof. But the writer has seen trees in sized or ratner large, skin reddish purple, race. Several expedients have been proflesh yellow, firm and good, separating posed and tried, to destroy it or prevent yielding fruit of the finest quality, on light ripening about the time of the Green ual is that of confining a sufficient num-sibly furnish a better retreat for the cur-Gifford, La Fayette, figured and de- injured fruit which falls, in doing which, requires further examination. scribed some years ago in the Genesce they destroy the worm before it can escape Farmer, was obtained from the seed of to the earth. The crop of the succeeding the Orleans, and is an excellent fruit, remarkable for the richness and sprightlihas been pursued perseveringly and the repair whatever wants mending, or post roughly, it has proved completely suc-your accounts.—Ib.

cessful. In one instance, known to the writer, the plum trees bore well for seventeen successive years. To render this operation easy and effectual, all trees which are liable to the attacks of the Washington-Foundblong, large, orange Curculio, should be planted separately, so that they may be enclosed apart for the confinement of the swine, which if Though the flavor of this is inferior to that permitted to range the whole orchard would not do the work so effectually.

But swme cannot always be admitted. and it is also desirable to preserve the fruit Imperatrice.—A good plum, ripening in of the present season. In this case, the in the tenth month (Oct.) One of the best remedy is the following. Spread white sheets under the tree, and jar it briskly. The insects immediately drop upon the sheet, and remain motionless a few seconds, during which time they may finger. While lying upon the sheet, they are not readily distinguished by an inexperienced eye from the withered blossoms. The operation should be repeated twice or three times a day so long as they remain. Bonum.—Is a very large plum, of a This remedy rarely fails if thoroughly and sweet agreeable flavor, but as the texture unremittingly pursued. The importance ted to be the finest of all plums, the gening and preserving. The same remark ceived by the following statement of a cornine fruit is of medium size, and round; applies to the Red Magnum Bonum, which respondent in the Genesee Farmer in the ed, and began to suspect that shaking the The plum is propagated by budding or tree was not sufficient. Under a tree in setty red near the stem; flesh melting, grafting. The former can only be suc- the remote part of the fruit garden, having separating imperfectly from the stone, cessfully practiced on the most thrifty spread the sheets, I therefore made the following experiment; On shaking it well, I there are many varieties cultivated in The principal enemy to the plum is the caught five Curculios: on jarring it with lowing experiment; On shaking it well, I The principal enemy to the plum is the caught five Curculios; on jarring it with which appear to have originated from elongated thorax and lead which resemstones of the genuine variety, but are bles a proboscis in appearance. The whole dropped on the sheets. I was now congreatly nierior in flavor. There are insect is not more than a quarter of an inch vinced that I had been in an error; and other rieties of a small green plum, long, of a dark brown color, the sheaths calling in the necessary assistance, and scarcely worth cultivating, which are fre-covering the wings, slightly variegated using a hammer to jar the tree violently,

Trees near path doors and other fredestruction. It makes a small incision in be fill of fruit, while others are all desfrom the former, by frequent passing.

The plum is by some cultivators regardtransformed the succeiving spring into a and some striking instances are given in its ravages. The easiest and most effect, or sandy soils. A porous earth may posber of swine with the trees, to eat all the culio; but to what extent this may be true,

Macedon, 8 mo. 15, 1844. J. J. T. -Alb. Cult.

(Continued from the October No.) EVERY MAN HIS OWN CATTLE DOCTOR. CHAPTER IX.

The Yellows, or Jaundice.

This is a far more common disease than the last. and almost as dangerous, because, although it is not marked by any acute symptoms, or accompanied by much fever, it creeps on insidiously, and fastens itself on the constitution, beyond the power of medicine to eradicate it; or it is the consequence and the proof of some disease of the liver, which is equally difficult to cure. It may be produced by inflammation of the liver, or too great secretion of the bile, or stoppage of the vessels through which the bile should flow into the bowcls. If its passage is obstructed, it is thrown buck again upon the liver, and there taken up by the absorbents, and carried into the circulation, and communicates a vellow colour to the blood; and as the blood, by means of the capillary vessels, is carried to every point and part of the body, so the rellow hue of the disease spreads over the whole of the frame.

This obstruction is sometimes effected by the undue thickness of the bile; sometimes 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 intestines, and which consequently, accumulates in the liver, until it is taken up by the absorbents, and carried into the frame in the manner that has just been described.

At the beginning of the disease there is considerable dulness and langour, and loss of appetite The cow wanders about by herself, or is seen standing by the side of the hedge or the fence in a most dejected manner. The quantity of milk is generally lessened; the bowels are costive; and the fore-teeth are sometimes loose, milch cows are more subject to it than oxen, and particularly in the latter end of the year. Sudden change of weather frequently gives rise to it, and especially if the animal has previously exhibited 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 indicative of inflammation of the liver, it may be difficult to remove, because it is an indication of the ravages which disease has made in the organ Should the pulse be strong as well as quick, moderate bleeding will be judicious, but not otherwise. The bowels should then be freely opened by means of the purging drink (No. 2, p. 47,) and kept open by half-doses of it administered as occasion may rerouse the digestive organs to their proper tone and power. Mingled with them, or at other 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 night.

Recipe (No. 14.)

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

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

After the yellowness is 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 flush of milk.

CHAPTER X.

Inflammation of the Brain.

This is not a very frequent, but a most frightful disease. It is commonly known by the names phrenzy, or sough. It is most prevalent among well-fed cattle, and particularly in the summer

and stupid. He stands with his head protubed, or pressed against something for support. He refuses to eat, ceases to ruminate, and is in a manner, unconscious of surrounding objects. Now and All at once, however, his eyes will become red, and scenningly starting from their sockets; the countenance will be both anxious and wild. again, and running unconsciously against everything in his way: at other times he will be consessed with an irrepressible desire to do mischief He will stamp with his feet, tear up the ground with his horrs, run at every one within his reach, recovering from such a complaint, and with tenfold fury at any red object; bellowing all the while most tremendously, and this he will continue until nature is quite exhausted a sudden and violent trembling will then come over him, he will grind his teeth, and the saliva will pour from his mouth; he will fall, every limb will be convuised, and he will presently die.

Causes .- It proceeds most commonly from a redundancy of blood in the system, called by farmers an overflowing of the blood; and this is induced by cattle thriving too fast when turned on rich pasture-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 them from its influence It may be brought on by severe contusions on the head, or by the cattle being harassed and finghtened, when driven along the road or through large towns.

Very few weeks pass in the metropolis in which cattle are not driven into a sinte of absolute mad- of blood to the lead from some occasional cause, acss, either by the brutality of the drovers, or by a and without inflammation. This is known by the set of miscreants whose sport it is to abuse and infurnate the animal, and endanger the lives of the

The chief or the only cure is bleeding. The neck vein should be opened, on each side, if possible, and the blood should be suffered to flow until the animal drops. It is absurd to talk of quantities here; as much should be taken as can be got. or, at least, the blood should flow until the violence of the symptoms is quite abated.

To this a dose of physic should follow The following may be administered:

croton nut, and weigh the proper quantity of the kernel. Rub it down to a fine powder; gradual-

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 in a loose or rather purging state by No. 2. As if the disease does not speedily subside The hair soon as the bowels are opened, the fever drink if the disease does not speedily subside should be closely cut or shaved from the upper part of the forehead and the poll, and for six inches on each side down the neck, and some of the following ointment well rubbed in:-

Recipe (No. 16.)

Blister Ointment .- Take, lard, twelve ounces; resm, four ounces; melt them together, and, when they are getting cold, add oil of turpentine, fou. ounces; and powdered cantharides, five ounces; stirring the whole well together.

When the blister is beginning to peel off, green elder 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 surface morning and night.

months. In the early period of it the beast is dull be inserted on each side of the poll in preference to the application of a blister.

Although the violence of the disease, and of its remedies, will necessarily leave the beast exceedingly reduced, no stimulating medicine or food then he will stand motionless for a long time, and must on any account be administered. Mashes then suddenly drop; he will start up immediately, and green meat, and these in no great quantities, gaze around him with an expression of wildness must suffice for nourishment, or, if the animal, as is and fear, and then sink again into his former leth- sometimes the case, is unable to cat, a few quarte of tolerably thick gruel may be horned down every day; but ale and gin, and spices, and tonic medi-cines, must be avoided as downight poisons. the animal will stagger about, falling and rising. There is not a more common or a more fatal error in cattle management than the eagerness to pour in comfortable, I would rather say, poisonous drinks. Even the treacle and the sugar in the gruel must be prohibited, from their tendency to become teid in the debilitated stomach of the animal

Every symptom of the disease having vanished, the beast may very slowly return to his usual food; but, when he is turned out to pasture, it will be prudent to give him a very short bite of grass, and little or no dry meat. Nature is the ic. restorer of health and strength in these cases; an,' it is often surprising, not only how rapidly the ox will regain all he has lost, if left to nature, and not foolishly forced on, but how soon, and to what a cont derable degree his condition will improve beyond the state in which he was before the complaint.

The ox ant has once had inflammation of the brain should ever efterwards be watched, and should be bled and physiced whenever there is the least appearance of staggers or fever. The safest way will be to send him to the butcher as soon as soon as he is in sufficient condition.

Sometimes the disease does not run its full turse. There is but a slight degree of inflammacourse. tion, or there may be sudden determination or flow name of

Stgagers, or Swimming in the Head.

The symptoms are heaviness and duliness: a constant disposition to sleep, 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 the brain or. inflammatory fever.

It mostly attacks those cattle that have been Recipe (No. 15.)

Resipe (No. 15.)

A Strong Physic Drink.—Take, Epsom or have been admitted into too fertile a pasture. quire. In this disease, oftener than in any other Glauber's salts, half a pound; the kernel of the hence is produced a redundancy of blood in the to which cattle are subject, stomachis are useful to croton nut, ten grains: take off the shell of the system, which, on the slightest disturbance, or even naturally, gives rise to the diseasa.

The cure must be attempted by taking four, ly mix it with half a pint of thick gruel, and give five, or six quarts of blood from the animal, ac-it, and immediately afterwards give the salts, dis-cording to its size and strength, the purging work It, and immenately intervarias give the saits, dissolved in a pint and a half of thinner gruel.

If the violence or even the wander 1 should refine in the violence or even the wander 1 should refine in the violence or even the wander 1 should refine in the violence or even the wander 1 should refine in the violence or even the wander 1 should refine in the violence of every eight main, another bleeding should take place is a size and strength, the purpose in the purpose in the violence of the violence or even the wander 1 should refine in the violence of every eight main, another bleeding should take place in the violence or even the wander 1 should refine in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, and the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, another bleeding should take place in the violence of every eight main, and the violence of every eight main and ei hours from the first bleeding, the operation must be repeated to the same extent, unless the beast should become faint; and the bowels must be kept (No.1, p. 46) should be given morning, noon, and night, until the patient is well. Nothing more than a very little mush should be allowed, and all cordials should be avoided as absolutely destructive to the beast.

> When the animal appears to be doing well, ho must very slowly be permitted to return to his usual food. He should for some weeks be put into short and scanty pasture, the seton should be continued in the dewlap, and occasional doses of Epsom salts administered.

> > CHAPTER XI.

Instammation of the Bowels, with Costine. ness.

INFLAMMATION of the bowels is by no meens an A seton, smeared with the above ointment may uncommon disease among neat cattle, and free quently proves fatal to them from mudicious treatment. It is a complaint easily recognisable on account of the peculiar symptoms by which it is

The animal is continually lying down and getting up ogain immediately, and, when up, he strikes at his belly with his hind feet. The bowels are obstinately constipated, the dung if any is voided, is in small quantities-hard, covered with mucus, and that sometimes streaked with bloodand the name is generally voided with difficulty. The pulse is quicker then natural, and there is much heaving at the flanks.

It is distinguished from cohe by the great degree of fever that evidently attends it, the muzzle Inflammation of the bowels, however, will in a being dry and the mouth hor. The animal before cases occur without all this costiveness, and ness and weakness appear more speedily and decidedly than in almost any other disease.

The attack is sudden like that of colic. animal quits his companions, and hides himself under the hedge. If he is in the plough, he all at once becomes deat to the voice of the driver, and insensible of the goad. He trembles all over—his skin becomes hot—his back and loins are tender his cars and homs hot. Everything indicates the had in the largest quantities in the vicinihighest degree of local inflammation and general

fever.

The disease mostly arises from sudden exposure to cold; and especially when cattie go into rivers or ponds after being heated and fatigued. It is of the above towns, for about the same sometimes produced by change of pasture, and feeding too much on dry and stimulating diet.

quarts of blood at least should be taken away Immediately afterwards the purging drink (No 15, p. 57) should be administered, and its effect promoted by half-doses of No. 2, given every six hours. This is a very dangerous disease, and the measures pursued must be of the most decisive The symptoms succeed each other rapidly, and if one day is suffered to pass without proper means being taken, the beast is irrecoverably lost

The third stomach or manyplus will generally be found, after death, choked up with dry food, hardened between the leaves of which 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 with the chill taken off, should be given; or, if the beast will not drink it, several quarts of it should be horned down. Clysters of warm water, or thin gruel, with a purging powder dissolved in them, should likewise be administered.

After having bled the animal once copiously, and, if the fever has not subsided, a second, or even a third time, the farmer should in this disease of high inflammation of the bowels, and strangly costive ... found his only hope of saving the animal in producing purging, and to this purpose his whole attention should be directed.

If it should not be accomplished after the third dose of the medicine, a pound of common salt may i The water or other liquid which the beast will probably be induced to drink will assist in purging him. Should not this succeed, a pound and a half of castor-oil must be administered.

The patience of the attendants will sometimes be worn out-they must, however, persist. Clysters, numerous, and great in quantity, must be administered. The Epsom saits and the castor-oil will not do harm in whatever quantities they are given . it will not be prudent, however, to repeat the com-mon salts. During the whole of this time the cordial drink of the cow-leech must be avoided as

hardened faces chinging round the intestines, and made, relative to the peculiar appearance towns, and villages, which must be removed, and therefore he must pursue the measures recommended until the dung of this wheat, which we shall briefly anlarge full stream, and without much straining, if free from rust, are beautifully transpa- civilized nations of the world, we see no

There has generally been something more that usually wrong in the food or management when mal has been kept too much and too long on dry food, or he has been turned into fresh pasture cand particularly in the autumn) in which there are oak-trees or some astringent vegetables. cause must be removed, or the aisease will return.

The state of the bowels of a beast that has once been sapped should be observed for some time afterwards, and gentic aperients occasionally ad-ministered, cold water should not, for a little while, be permitted, and strict attention should be paid to the diet

comes speedily weak, he falls or throws hims it yet produced by nearly the same acuses. The down suddenly, and when he rises he does it with other symptoms are the same, but the danger is difficulty, and he staggers as he walks. The low-not so great. The beast should be bled and phyness and weakness appear more speedily and described, kept moderately warm, and have warm water with bran mashes.

SIBERIAN SPRING WHEAT.

This variety of wheat is now pretty generally cultivated in the central districts of the Province, though it may be ties of Cobourg, Port Hope, and Peterboro'. We expect that thousands of bushels may be purchased in the neighbourhood rates that good fall wheat commands. We sowed 47 bushels of Sibarian wheat The first thing to be done, and that which admits of no delay, is to bleed; from six to eight last spring, which has given a return of about 25 bushels per acre, and its flourwinter wheat. Our average was not equal to many of our neighbouring farmers, who only sowed a few cres upon land prepared in the best possible 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 Siberian will yield 25 per cent more than the comper bushel in the market for grinding pur-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 large yields have been grown without an exception after of the resources of the country. potatoes, with no other preparation than perly managed in the autumn, it will reception of the seed.

The diameter and length of the straw are considerably under the common varieties, and the straw is much harder, and of a more wirey appearance, like the straw of chess, than other kinds of wheat. The heads are remarkably long, and the grains are placed at a considerable distance asunder; notwithstanding we have frequently counted ninety grains upon a single head, but the aver-The grains age number is about sixty. are short, plump, and of a light colour; and the bran is very thin and light when compared with the common kinds. 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 We trust that merchants and wheat. 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 ing qualities are nearly equal to red chaff meeting of the 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 mon variety, and will bring 2d. or 3d. more the proceedings and reports of those clubs are published in the local papers for the general benefit of their readers. 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 The free exchange of views that take place upon an autumn ploughing, and a thorough the influences that affect agricultural opespring harrowing. Potatoe fallow, we rations, give the farmers who attenuthose believe to be the best preparation for meetings, an unshaken security and conspring wheat, and if the ground be pro- fidence in the application of the means for effecting the improvements in agriculquire no further trouble in the spring ture, that the men of science and deep rethan a harrowing to prepare it for the re- search have pointed out. The powerful The sooner it is impetus for improvements in agriculture sown in the spring the better, but the land that has been so generally and effectually should in all cases be allowed to get dry, brought about in England, through the before it be harrowed. To facilitate the agency of agricultural clubs and libraspring work, it should be ribbed in the ries, has attracted the attention of our sa-The farmer of the attendant must not be decived by the passage of a little liquid dung in a saddeep as the strength of the teem will the example of the British husbandmen, and the farmer of the attendant must not be decived by the passage of a little liquid dung in a saddeep as the strength of the teem will the example of the British husbandmen, admit. Many inquiries have of late been by corrections and the strength of the str

As competition in agriculture has now is expelled in considerable quantities, and in a swer. The chaff and straw are red, and, become the order of the day among the

just reason why the farmers of Canada cultural classes may be seriously devoted for North Illinois, Iowa, Wisconsin, Mis. the harvest of the present year is one of the finest to the importance of this subject. To souri, and the North West Territories, ever gathered in America.—Montreal, Aug 12 convince our friends that we are not only from the British Isles, Prussia, Germany, that ever occurred in America, extending from disposed to recommend to others plans for Netherlands, and, in fact, from every north to south."

Netherlands, and in fact, from every north to south."

The Calculation of the Green and Provide a their adoption, but to aid also in the work, country in Europe; and very shortly that we have spoken to such of our neighbours as would be most likely to take an active the Mississippi River and the Rocky part in the establishment of a farmers' Mountains, will become cultivated by European and American settlers, and the most of whom we have 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 the law of the land, than advices were related form 249.771 byshels of west, 420 barrels of flour, 34.878 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 barlets of pers, 3.584 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 barlets of pers, 3.584 bushels of wheat, 6.832 barrels of pork, 1.581 barrels of soler, 514 kegs of lard, 1.944 kegs of butter, 420 barrels of soler, 77,032 barrels of flour, 34.878 bushels of wheat, 6.832 barrels of pork, 1.581 barrels of soler, 514 kegs of lard, 1.944 kegs of butter, 420 barrels of soler, 77,032 barrels of flour, 34.878 bushels of wheat, 6.832 barrels of pork, 1.581 barrels of soler, 514 kegs of barrels of soler, 514 kegs of barrels of flour, 34.878 bushels of wheat, 6.832 barrels of pork, 1.581 barrels of soler, 514 kegs of lard, 1.944 kegs of butter, 420 barrels of soler, 77,032 barrels of flour, 34.878 bushels of wheat, 6.832 barrels of pork, 1.581 barrels of soler, 514 kegs of barrels of soler, 77,032 barrels of flour, 34.878 bushels of wheat, 6.832 barrels of soler, 514 kegs of barrels of soler, 514 kegs of barrels of soler, 77,032 barrels of flour, 34.878 bushels of wheat, 6.832 barrels of soler, 514 kegs of barrels of soler, 514 kegs of barrels of soler, 77,032 barrels of flour, 34.878 bushels of wheat, 6.832 barrels of soler, 514 kegs of barrels of soler, 514 kegs of barrels of soler, 514 kegs of soler, 77,032 barrels of flour, 34

those countries, and strange to say, com- will be able to form a pretty correct estipers, 33,553 bushels of barley, 20,388 bushels of paratively few find their way into this mate of the ultimate trade of the St. Law, oats, 40,2251 specie. paratively few find their way into this mate of the ultimate trade of the St. Lawparatively few find their way into this mate of the ultimate trade of the St. Lawcountry. A club numbering 100 members, the annual subscription of which
unchanged. If Great Britain were inbeing five shillings each, might be placed
volved in a continental war, an ample supin possession of about all the modern
ply of provisions could be supplied her
works published upon agriculture and gefrom Canada, with less risk than from any
in 18,387 barrels of ashes, 307,961 barand 2070 b works published upon agriculture and ge-from Canada, with less risk than from any rels of flour, 237,098 bushels of wheat, 3,630 bar-neral science, within the short period of five other quarter; and whether she be at rels of pork, 2,057 barrels of beef, 928 kegs of butof periodicals, which should be placed up-tmense trade from Canada will be carried or periodicals, which should be placed up-mense trade from Canada will be carried on their table in files, for constant use. on in British and Canadian bottoms, which When the Canadian public have taken of itself is a matter of the greatest importance to obtain and circuitance to the British nation.

In addition to the immense increase in the expectation of the working of the control of peas, 300 bushels of barley, 200 bushels of oats. lished upon the science of agriculture, we reason complain of the working of the ports of wheat, it will be seen that there is a great may then expect to see a new order of Canadian Corn Bill, but when the cries increase in barley, oats, and peas."

"In addition to the immense increase in target a great may then expect to see a new order of Canadian Corn Bill, but when the cries increase in barley, oats, and peas."

"In addition to the immense increase in target a great may then expect to see a new order of Canadian Corn Bill, but when the cries increase in barley, oats, and peas."

"In addition to the immense increase in target a great may then expect to see a new order of Canadian Corn Bill, but when the cries increase in barley, oats, and peas." things among us, and we doubt not but of the starving millions of manufacturing that Canada will then produce as brilliant operatives reach his ears, if he be a man before our readers the following extract of a com-

THE CANADA CORN BILL.

The English agricultural press are, without an exception, loudly denouncing the levelling influences of the present bill, which admits the produce of the United! States, passing through the Canadian waters, into the British Markets, upon the same liberal terms as the bona fide growth of Canada. The carrying trade of the United States produce is certainly a boon, so far as the Colony is concerned, but at! that the wheat growing powers of the Liverpool Times. North Western States and Territories, risions adapted for exportation.

settlement ir the province.

There are few works yet published upon Canadian agriculture, and if libraries are established in connexion with the clubs, the most of the works will have to be imported from Great Britain and the works will have to be be imported from Great Britain and the we understand that that stupendous work

thing had to be done by the government, of Lake Erie,—
to relieve their distress. The difference "The speculators in grain were all struck aback

"It will be seen from the following comparative North Western States and Territories, statement of the exports from Canada up to the landed at this port and worked off through the statement of the exports from Canada up to the landed at this port and worked off through the pth of August in the last and the present year, that welland Canal, as above, will give the annexed from the reduction of the exported had increased from the quantity of flour exported had increased from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal, as above, will give the annexed from the present year, that welland Canal this port and worked off through the present year, that welland Canal this port and worked off through the landed at this port and worked off through the present year, that welland Canal this port and worked off through the present year, that year and worked off through the present year, that year and worked off through the present year, that year and worked off through the present year, that year and worked off through the present year, that year and worked off through the present year, that year and worked off through the present year, that year and worked off the year and work losses on the recent importations have fallen very region."

The present Canadian Corn Bill proves heavy on the importers, the production of wheat on should be behind the age, in matters es- itself to be in practice a direct premium the banks of the St Lawrence and the shores of the sentially important to their individual and to the farmers in the Western States. As takes is increasing so rapidly, that a constantly increasing supply must find its way to the English national prosperity. We, therefore, hum-scen as the measure came into operation, market—It will be seen, from the following ex-bly crave, that the attention of the agri-thousands of emigrants were on the wing tract of a tener received by the Caledonia, that

and proceedings of a number of Canadian the law of the land, than advices were rels of flour, 249,771 bushels of wheat, 20,137 bar-Farmers' Clubs, and that steps will be sent to the Illinois Government, by Bri-trels of pork, 1,585 barrels of beef, 687 kegs of lard, taken to establish them in every populous tish capitalists, that upon certain securi-1.944 kegs of butter, 563 barrels of tallow, 2,200

9, 1844. "Montreal—15,525 barrels of ashes, 154,604 United States. Scarcely a month passes will be shortly completed. A person ac- barrels of flour, 210,212 bushels of wheat, 1,368 over, but that new and almost invaluable quainted with the geographical position, barrels of pork, 1,409 barrels of beef, 371 kegs of works to the farmer, are advertised in and the vast resources of the "Far West" butter, 1,195 barrels of oatmeal, 48,887 bushels of

years, and such a club could also be in peace, or at war with the rest of the world, ter, 2,420 barrels of oatmeal, 78,092 bushels of peas, regular receipt of a considerable number it is certain, that the whole of this im- 60,615 bushels of barley, 20,388 bushels of oats, 40,2251 specie.

agricultural authors as any other country of reason he must clearly see that some- United States of Ameica, at the eastern extremity munication from Buffalo, a port situated in the

between the corn bill and free trade, in to day by anthentic information obtained of the favour of the former to the British Govern- quantity of wheat passing the Welland Canal from ment, must appear apparent to the English Lake Eric to Canadian ports and others on this ment, must appear apparent to the English side of the lines. It was generally understood that grower, and so long as something had to be the quantity was large, but very few were preparations. done, in the way of providing cheap bread ed to place the aggregate as high as 865,000 bushels for the labouring classes, the measure els, yet so it turns out. Of this immense amount which was adopted, was probably the wiscest that the legislative wisdom of Britain could devise.

Catherines, and the mills at Gananoque; and the est that the legislative wisdom of Britain could devise.

This is a prodigious increase over As an evidence of its practical opera- the shapments of former years, and must strike the so far as the Colony is concerned, but at tions, we copy a few extracts from the millers with much surprise. How much flour has the same time it should be borne in mind. The same channel is unknown, but

that sent to Oswego must be large.
"The whole of the wheat therefore that has been

From the American Farrier. MANURES.

A Prize Essay,-By S L. DANA.

SECTION ELEVENTH. Of Artificial Nitre Beds

But there is a fashion in manures as well as in other things, and salepetre is now so fashionable (Clay, that you may be inclined to use it. Be it so. I will show you, reader, how to make it yourself, Iron, and at the same time form a large pile of capital, Manganese, mould. But as you have begun to inquite a little, Silex, or the earths of flints. mould. But as you have begun to inquire a little into the teason of things, let us go a little into the reasons why the earth under all barns where catcellar wails, alway afford saltrette. You wen may form the following salts in plants, namely - know that these the case, and why? We have al- Camber's salt, Epson salt, common table-sa ready told you, that the acid of suspetic, that is, the aqua-fortis, is formed of the air we breathe Now alkalies and porous hodies compel the constituents of air, under certain circumstances, to unite and form aqua-forts, and this immediately unites prises the principal, and those most likely to be when, how, and where, spent ashes, to the alkali, and forms saltpetre. The best alused in faming. Well, now, the lesson to be coal ashes, are likely to do good. Perhaps we kall to compel this amon, is ammonia. Hence, drawn from this composition of ashes is this, that may not have a better place to state the fact, that where plenty of annual matter is fementing, or there is scarcely any salt occurring in commerce, a cord of scap-boiler's spent ashes contain about rotting, or where plenty of urine is, there, porous, which may not be used in agriculture, instead of fifty pounds of potash. When we add to this, bodies being present, saltpette will be formed, those found in asies. In fact, almost all salts one hundred and seventeen pounds of bone-dust, Now this is enough for you, to understand the principle upon which I propose to you to form an from manufactures of other sources, have been of lime, which acts chiefly on the soil, and so artificial nitre bed for your own use. It has been found that the manure of twenty-five cows, asses, and mules, in layers of about four mehes thick, and bases of common ashes, this seems quite reafirst one and then the other, and now and then damped with the urife of the stable, produces from 1,000 to 1,200 lbs of saltpetre in four years

ally shovelled over. At the end of two years, it sure that in any quantity in which the salt is likeis a mass of rich mould. It is ich two years long, by to occur, it cannot be injurious, provided it is er, with an occasional turning over, but it is not mixed up with plenty of mould, and a little, ashes, wet with urane for the last few months. The dung or alkali, which will ke the farmer has always, he wants the porous chalky body. This may be farmshed by spent ashes, mixed up with its bulk of loam. Hence the folcour, and a part where the folcours are the folcours. mixed up with its bulk of loam. Hence the fol-lowing rule may be given. One cord of clear cow-called spen, ashes. Let us see then in leaching, They yield a large and beautiful fruit, to dung, one cord of spent ashes, one cord of foam or swamp muck. Mix the ashes and the swamp muck will, and having hard rammed the barn-cellar floor, or that under a shed, lay a bed upon it is left. The plosphoric, and all the bases. It is dens, they grow very large; the dark red four inches thick, of these mixed materials, then evident, therefore, that the strength of ashes can and polished stalks rise from three to six a layer of dung, three or four means thick, and so, never be leached out, if that depends upon the salt, i feet, from the earth, then bend over in pn, till the pile is two or three feet high, topping pn, till the pile is two or three feet high, topping pff with loam. Wet it occasionally with urme, left, and, besides this, a portion of what is usually graceful circles to the ground, or coming keeping it always about as moistas garden mould. Considered the real strength, that is, the potash, in contact with which, the end inserts its selemically united to certain of the other self in the soil, forms a new root, and pn, till the pile is two or three feet high, topping off with loam. Wet it occasionally with urine, pile new contains about fifty pounds of several varicties of saltpetre, and mixed throughout with pearly three cords of excellent manure It may therefore, be now used, according to the farmer's judgment. By thoughtful management, he may, given off. Here is the secret of the value of spent after the first two years, annually collect as many ashes, so far as the potash or ley strength is confifty pounds as he employs cords of cow dung. But, however prepared, mire affords, by its cle ments, nourishment to plants. All its parts act. Its alkali acts, and its acid acts.

SECTION TWELFTH.

Ashes.

vice to the farmer, are those only which neither spens ashes, cannot here act. There is this other enter into and form part of the plants, or which, lessed to be learned from these facts, that it is by the act on of the reaction has a country checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so ther possible in the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so ther possible in the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so ther possible in the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so ther possible in the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil, or upon the mould. Sit so there is no checky the atkaline action, which is wanted from parts of soil. canes we take, are good in doses, the second, can the alkaline portion to be first leached out, unless hardly injure, even by their excess. If we recar the can find a more economical use for it, than its to the principle, with which we set out carry in appreciation as a firturer. Perhaps no fact speaks this essay that the askes of plants contain all their foods, that the great action of spent askes is that salts, then, rightly to know what salts are likely of its potash, than this, that where, we prevent that to produce good effects as manure, we should first from being extracted, the spent askes are of little study the composition of askes. We have, in value. If, then spent askes derive their great askes, a great variety of substances. They come value from the potash, much more will unleached from the soil. They form a part of plants. The askes derive their value from their potash has led you.

carth, or we, losing the volatile parts of a plant, its mould and ammonia, by burning, collect its saits as asics. Let us see what these saits are made of In the first place, you know, all salts are composed of an acid and a base

The bases are,

The acids are,

The acids are, Potash and Soda, Carbonic, or carbon united to

T...ue. Magnesia.

oxygen. Phosphoric of Phosphorus, do. Sulphuric of Sulphur, do. do. Muriatre, essentially composed of chlorine

Now if we throw out the carbonic acid, which has been formed in buining, we have left in ashes, tle are kept, why the plaster of oid houses and three acids, which are united with the bases, and Gauber's salt, Epsom salt, common table-salt, used, and all with greater or less success, as manures. And if you cast your eye over the acids with layers of the same thickness of charky soil, sonable. It is not expected that a plain farmer, possessing hale or no chemical knowledge, should be able to tell beforehand, what the effects of a salt would be, applied to hisland, but if he under-The heap is formed under cover, and occasion- stands what the composition of ashes is, he may be or alkali, which will kill or neutralize any excess

In ashes, we have one part which may be leachshoul over your spent ashes, max it up with feracid, less joose the potash, which was chemically combined with the other matters. Water would never have done this. Mark now a practical lesson, taught here by chemistry, and confirmed by expenence. Leached ashes must never be used on wetsoil, if we want its alkali to act. The close wet soil, soil, perhaps oven half covered at times It is easy to see, that salts, whatever be their, with water, excludes the air. The carbonic acid name or nature, which are like to be of any ser- of air, that which alone extracts the alkali from

in these remarks, is this, that the more alkaline any sait is, the better it is for manure. Hence as a general rule, about the use of salts, it may be laid down that the alkaline salts, that is potash, pearlash, common ashes, barilla ashes, white, or soda ash, are the best. And as these, in all their various shapes, are the cheapest and most commen articles, so you need not run after a long list of other saits. Next in value to the real alkalies, are spent ashes, used in a light, porous, open, sandy soil, 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 not so to you. They show only traces of al-kaline power. But treat them as you did spent ashes. Their power, independent of their bonedust, ...hich is by no means small, and their plaster, which is still greater, and their lime, which is perhaps the greatest, hes in the alkali, which is locked up, as it is in spentashes. Treat them, therebone-dust, a salt of lime, and what we may term a fore, as you did spent ashes, and then, peat ashes bone-dust salt of non, or phosphate of non, plaster will and do afford alkali. So too coal ashes, even of Pans, gypsum, copperas, dum, or some other your hard anthracite ashes, yield all the substances salt, which need not be chamicated. Our list com- which spent ashes do. It is easily seen, therefore, which occur in a large way, as refuse materials, and about a ton and a half of chalk, or carbonate comes not now under consideration, it is seen, that there is no cheaper source of alkali and salts, to one within reasonable carting distance of a soapboiler, than spent ashes. They are marl, bonedust, plaster, and alkalı combined.

(To be continued.)

THE BLACK RASPBERRY.

Messrs. Editors,-I would advise farmers to set out in their gardens, two or three dozen of the White Antwerp and Black Raspberry, the latter of which may never be leached out, if that depends upon the salt, feet from the earth, then bend over in constituents of ashes. You cannot leach it out, sends up a young shoot for fruit the next leach you never so long Ups.t your leach-tub, year, as sweet as the meest tooth could menting manure, where a plenty of fixed air is desire, likewise making an ornamental appearance. The abundance of fruit which they produce is astonishing. Mixcerned. This exposure to the air, to carbonic ed 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, &c.

Shorcham, Vt. May 20, 1844.

Simple and effectual Remedy for Hove in Cattle.-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 down 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 cattle, which are always kept at a brisk walking pace through the yard until relieved,-Dublin Farmer's Gazette.

AGRICULTURAL PURSUITS.

chemists, depending upon the earth for subsistence, answer the purpose. To obviate this difficulty, I—they by time, separate, modify, and change the, made it somewhat different, and I think better simple and compounds, so as to afford the several elements of which the vegetable kingdom is composed, thus making of the farm a workshop and laboratory. In plowing and preparing his land for ing 8 feet assunder. I framed a piece 5 by 7 across, seeding, he is a practical mineralogust and geolo- just near enough the tast of the mark for the seeding and standto think better—

Seedi, &c.—This dough being made into pellets, is to be laid in rat-holes. By its part of the marking of the farm a workshop and laboratory. In plowing and preparing his land for ing 8 feet assunder. I framed a piece 5 by 7 across, seeding, he is a practical mineralogust and geolo- just near enough the tast of the mark for the seeding that the seeding agreeable to their palates boratory. In plowing and preparing his land for, ing 8 feet assuder. I framed a piece 5 by 7 across, seeding, he is a practical mineralogist and geolo-just near enough the tops of the posses to allow gist; in observing and preventing the ravages of room for the shaft and chain to work, beaced it at destructive insects, he is a practical entomologist, the corners with old tire, 2 ft long, a 3 bolt Indeed, to enumerate his various employments through each end, and through the upright and would be hardly possible. He is the practical bo-cross piece which holds it firmly together. I then tamist and meteorologist; but it is quite improba-; hollowed out the tops of the posts, so as to lay the ble that one man should be perfect in all these, shaft in them. The which works outside of the branches; yet the farmer, by a more attentive ex-, post as near to it as possible. Thus the objection amination into the cause and effect of all which arged by a correspondent, that it would crush by the fate observation, may be come a better natural philosopher than heretofore, by going up and down, it will work pretty well—be the case with arsenical doses. it may and, by the cultivation of his mental powers come. and, by the cultivation of his mental powers, com-some of my friends ridiculed the idea of drawing, be an easy guide for those who are changed when they saw it in operation. It is operation, and as one of the many pillars of the consider it a valuable invention. The stumps that to know that a temperature of 150 of constitution. Of all the various employments I undertook to draw had been cut some four years. Fahrenheit is equivalent to a degree of Fahrenheit is equivalent to a degree of the many pillars of the land not large. After breaking some of our comand, by the cultivation of his mental powers, com- ; some of my friends ridicaled the idea of drawing, be an easy guide for those who are desirwhich have from time immemorial engaged the and not large. After breaking some of our com- Fahrenheit is equivalent to a degree of attention of men, none have been so pre-emmenty, mon log chains, I produced one made out of 3 inch, heat midway between that at which white assetut, more honorable, nor so nearly connected, bar, which I think will stand a stronger machine of egg coagulates and white wax melts.' with our interest as nations, as individuals, than than mine, but on putting a double team to the agriculture; its pursuits offer to the ingenious rope, I broke the arms of the wheel; so I let it mind more opportunities for research and experi-, stand, and planted my corn, intending to renew the ment than any other science, yet it is a immentaoperation again. The arms were only two by six
ble fact, that there exists among the farmers an inches. I think a machine can be made strong
apathy to the pursuits of knowledge, and a want
of that spirit of inquiry respecting the nature and
stump after being cut three or four years. If any What is the cause of this? A want of the proper, wheel at each end of the shaft outside of the posts, estimation of the pursuit of agriculture. Is the which will balance. He then may apply force to cultivation of the soil regarded with contempt?—
'Tis an abused idea, and we believe it too generally prevails, else why are so many of our young men engaging in the professions, too full, long ere less laborious than either the professions, the mechanical or mercantile pursuits?

Agricultural pursuits may be made profitable: turer may be robbed of the reward of their labor. -They may have done every thing 'hich intelli-gence and industry could to ensure success, and yet at the year's end, wind up business with a loss, has never failed, since time immemorial, to honor all just demands; his profits may be diminished, all just demands; his profits may be diminished, but never wholly suspended. Although they are water heated to about 150° Fahrenheit; more imposed on than any other class of the com- introduce into it half an ounce of phosphomunity, and have less money, still they may grow rus for every pound of lard, then add a munity, and have tess money, san they may grow rich. The mechanic may earn his six, eight, or twelve dollars a week, yet his condition is no better at the year's end than when he commenced it; rich. The mechanic may cam his six, eight, or pint of proof-spirit or whiskey; cork the cut into it. Twenty-five cents worth of twelve dollars a week, yet his condition is no better at the year's end than when he commenced it; bottle firmly after its contents have been while the farmer, carning from fifty cents to one heated to 150°, taking it at the same time dollar a day, grows not. It the artisan lays down; out of the water-bath, and agitate smartly

Metallic labels, with stamped letters are eleeps, his wealth still accumulates. Indeed the mechanic, physician, merchant, and idler, may sense enough to pursue anything else; notwith-standing the glaring facts, that from the soil is it enters into the combination, but it merely drawn nearly all the wealth of the nation-P. Boy, serves to comminute the phosphorus, and .- Albany Cultivator.

THE VERMONT STUMP MACHINE.

So wide is the field of the farmer's labor, and so | Editors of the Cultivator,—When I first saw a many the objects connected with his various em- draft of the Vermont Stamp Machine, in the Octo habits of those objects upon the perfected cultiva-tion of which depends the production of real wealth. be the case if the wheel is large, let him put a one or both wheels as the case may require. J. W.

Chester County, Penn. 6 month 3, 1944.

And why are the many mechanical branches so would not require propping on the side of a hill, so that when afterwards split into labels, And why are the many mechanical branches so, would not require propping of the sould be used to that when anerwards spine the completely overstocked, while agriculture, the main nor would the oxen pull it to pieces so easily. The a line when the interval a hole is left at the end of each for insertsupport of the nation, holds out so many induce- , piece may appear in the way, but the shalt being

and the farmer's profits are sure, while by the flue- for the destruction of rats, has been comtuations of the market, the merchant or manufact municated by Dr. Ure to the council of the wire is best for the loop—it should not be ly recommended as the best known means inch in diameter. If of much less size, it of getting rid of those most obnoxious and will be repeatedly bent by the rattling of not only of profits, but capital too; but this cannot; destructive vermin. It has been tried by the label in the wind, and finally crack off.

> "Melt hog's lard in a bottle plunged in be poured off to be used again, for none of away.

to diffuse it in very fine particles through the lard. This fatty compound, on being ployments, that we see no reason, having aught of ber number of the Callicutor, I resolved to make sound argument, why the farmer should not be the most learned of men. They have more to do with the element of nature than others, and are practical chemists, depending upon the earth for subsistence answer the purpose. To obviate this difficulty. I and noses, it is readily caten, and proves certainly fatal. They soon are seen issuing from their lurking-places to seek for water to quench their burning thirst and bowels; and they commonly die near the water. They continue to cat it as long as

LABELS FOR STANDARD FRUIT TREES.

Great convenience is found, in large collections of fruit 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 slip of wood, two or three inches long and half an inch wide, suspended by a wire loop to one of the horizontal branchthis, for the country's good? And why are so N. B.—I think the machine described in the cs. The most suitable wood is red cedar; this, for the country, to learn the February number of the Cultivator is about the a block of it should be bored through one art and mystery of measuring a piece of tape!— right size. If he would frame a piece across, it end with a small gimlet or carpenter's bit, and mystery of measuring a piece of tape!— right size. If he would frame a piece across, it end with a small gimlet or carpenter's bit, ments for its nursuit, at once more interesting, much larger, it will not be much obstruction to the ing the suspending wire. The best way more profitable, and, as improvements are made, chain.—Alb. Cultivator. white lead paint with the finger, and write To destroy Rats.—The following recipe immediately with a black lead pencil, or the destruction of rats, has been com-which will last many years. Copper English Agricultural Society, and is high-less than a large pin or the fortieth of an happen to the industrious farmer, his capital is in-several intelligent persons, and found per-Iron wire soon becomes rusted, and brass vested in the soil, and he draws upon a fund which feetly effectual. is too stiff. A piece of wire seven or eight inches long should be attached to each label; and if placed on a small branch, it will be many years before the wire, by the growth of the branch, will

this tools, and the professional man is idle, they are till the phosphorus becomes uniformly difmore durable, but attended with more cost
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sunking money: n mixture being cooled, with occasional agi- wood as just described, which were mark. receive their thousands yearly, yet die poor; while tation at first, will afford a white compound ed five years ago, the letters still remainthe farmer scarcely receives as many tens, and of phosphorus and lard, from which the ing distinct, although the paint and a part lives and dies as the lord of the soil. Many deem spirit spontaneously separates, and may of the wood around the letters have worn farming fit employment for such only as have not be round off to be used only as have not be round off to be used only as have not be rounded.

J. J. T.

FOURTH ANNUAL SHOW

OF THE NEW YORK STATE AGRICULTURAL SOCIETY.

The Editor of the American Agriculturist says, "This great event came off at their seed having been subjected to the ficient. Poughkeepsie, on Tuesday, Wednesday, process of soaking in certain chemical so. Having stated Mr. Campbell's theory and Thursday, the 17th, 18th, and 19th lutions." Mr. Campbell, himself, desand given his practice with the results, of September, and was more numerously cribes the result of the experiment thus: I must be permitted a little criticism. It attended, and realized a much larger amount of funds to the society, than any exhibition yet held. The number of visitors were computed during the three sitors were computed with the society of the stems of the stems of pears to me that 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 imdays of the show, at no less than 30,000, green colour. The seed was very light, portant cdvantages. Suppose a small and the number would have been greatly increased were it not for the dust and exceeding 37 lbs. per bushel, and conna were placed in the hill with the seed, cessive heat; still the country made a try. The average number of stems from the moisture of the earth and the rain good turn out, and right glad were we to thirty-three seeds, is eleven or twelve to would gradually dissolve it, and the seeds find the number of ladies present nearly, each seed sown, and the gross apparent would readily absorb it to the full extent if not quite equal to, that of men. The produce between five and six hundred amount of receipts at Poughkeepsie for fold." The solution in which these oats membership to the Society, and tickets of were soaked, was that of sulphate of amadmission to the show ground, principally monia. He prepared it from the carbonat one shilling each, was about \$3,700. ate of ammonia himself. He also used In addition to this, the citizens of the village and its neighbourhood, defrayed the expenses of erecting the edifices and fenc- these in combination; but he seems to small place where the salts are: What ing the ground, costing about \$1,700, think the sulphate the best, though all the for? Are we to be informed that the roots making a total of about \$5,400 received."

The want of space forbids us copying lengthy extracts of the proceedings which very easily be tried, I would recommend sulphate of ammonia comprise all the eletook place at this great farmers' jubilee. all farmers to make them with at least one ments of nutrition that compose the food It must undoubtedly have been a most acre. magnificent and instructive spectacle to pound of carbonate of ammonia and dissoil, and of the work-shop, of the extensive republic, concentrated within the li- ground gypsum (or plaster of Paris,) and mits of an area of ten square acres. can truly say, we now regret that we let it stand twenty-four hours, stirring it lutely essential,) nitrogen, nothing more. were not present, to have examined for occasionally. ourselves, and to have reported to our plaster of Paris has completely settled readers, such matters of general interest at the bottom of the vessel, pour off the

NEW SYSTEM OF MANURING.

to ensure a very large produce at harvest, The result will be, that there will be in without any other manure. The gentle-the twelve pints of solution just one pound man that suggested the idea made experi- of sulphate of ammonia, which is the ments at two successive seasons, (in 1842 strength of the solution directed by Mr. Highland Agricultural Society of Scot- one gallon and a half is the quantity reland, have published in their Transactions, quired for one bushel of seed. The cost magnesia, which is an essential portion of a detailed account of the whole affair. of the carbonate of ammonia is about 30 all the graminem? Whence, also, will it The experiments were tried on oats and cents a pound at retail; the plaster costs obtain the silicate of potash, if there be barley, and the produce, especially the comparatively nothing; therefore, if Mr. neither potash nor silicic acid in the soil? oats, were exhibited at the Society's exhi- Campbell's theory he correct, it will cost | Will sulphate of ammonia alone, in a soil bition last fall, and were of remarkable but 30 to 60 cents to manure an acre of taken six feet below the surface, and in quality. In their Transactions, the So-ground for a very large yield of wheat, which there is no humus or organic matchest speak of them in these words:—toats, &c. The length of time Mr. ter of any kind, furnish all these or any of "There was perhaps no object in the Campbell left the oats, barley, &c., in these essential elements of vegetable orexhibition of plants in the Society's Show soak, varied from fifty to ninety-four ganism? As hinted above, ammonia furat Dundee, in August 1843, which attract hours, at a temperature of 60 deg. Fah. nishes to plants nothing but nitrogen; nied such general attention as the remarka- renheit. Barley did best when steeped trogen does not enter into the composition bly strong and vigorous oats, growing in 60 hours. Rve grass, and other grani- of any one of the above named elements, soil, exhibited by Mr. James Campbell of inous seeds, do with soaking fifteen to plants receive much, if not most of their

solutions of nitrate and muriate of ammonia, and nitrate of soda and potash, and all others produced favourable results. As are thus sent out in search of inorganic these experiments cost but little, and can matter, air and water only? Again, does The simplest method is to take one The choicest products of the solve it in five pints of pure rain or river that is, 100 lbs of straw contain 38 lbs. of water. Then take one pound of finely carbon; and 100 lbs. of wheat contain stir it into the solution of ammonia, and can only furnish the necessary (but absoas may have come under our observation. 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 A singular idea has just been suggested before; then put three pints more of wain Scotland, in relation to the nutrition of ter to the lime and stir it well again; let and organic matter to supply the plants plants. It may be summed up in a few it settle and pour off as before into the with its other elements must have been words, thus—that a sufficient quantity of other vessel. The object of these successupplied through the medium of rain was the elements of nutrition may be absorbed sive washings is to secure all the sulphate ter, atmospheric air, &c. It may be safeinto the seed of wheat, oats, barley, &c. of ammonia that may be in the lime. and 1843,) with complete success, and the Campbell. And these twelve pints, or the Educational Seminaries of that town. It twenty hours, and clover from eight to carbon from the atmosphere; and why The soil in which they grew, possessed no ten hours. He does not mention the time may they not also receive their nitrogen peculiar property, except that it had not required for the steeping of wheat. Of from the same source, as atmospherie air

been manured for eleven years. The viccourse a much shorter time will be regour of the plants, according to Mr. quired than that for barley or oats; pro-Campbell, was entirely to be ascribed to bably ten to fifteen hours would be suf-

of their capacity, and the 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 of wheat, barley, oats, &c. ? Let us see. Straw contains 38 per cent of carbon ;-43 lbs. of carbon. Sulphate of ammonia When the lime of the 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 ly 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

is composed of oxygen and nitrogen, the latter being four-fifths of its bulk. all know that they do take carbon from the atmospheric air, throwing off the oxygen, and it is no more than reasonable to conclude that they appropriate the nitro-

gen to their own.use.

If this hypothesis be admitted the application of ammonia to soils is superfluous. But again, and I will have done with this criticism. Can it for one moment be supposed that a grain of wheat can take up by absorption, a sufficient quantity of ammone to supply the whole plant, seeds and all, with all the nitrogen required for its perfection? It must 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-thirteenth of the same bulk is sulphate of ammonia, that but one-third of have it keep this season.' of this is ammonia, the other two thirds being water and sulphuric acid, that about five-sixths of the weight of ammonia, is nitrogen, the other sixth being hydrogen. Hence, wheat steeped as direct. Some of the lumps ed by Mr. Campbell, and absorbing the whole of down with the ladle. the solution, will contain only one two-hundred and thirteenth of its own weight of nitrogen, a theory of Mr. Campbell to the appellation of the does not know how to make good butter; Homeophatic practice of agriculture. It is pretty for no butter can be good until all the butwell known to chemists, that grass, hay, &c. contain one per cent of mitrogen, that is, that one hundred pounds of hay contain one pound of nitrogen. I have not been able to find any close analysis of well in any place. A very little more wheat, but it must of necessity contain a much care and labor would have made this exlarger proportion of nitrogen than grass does, on cellent butter; but lacking that little, it is 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, could only result in adding fifty pounds of wheat in the staw to the harvest that would have been yielded without it: that is, that this plan of manuring can only result in increasing the crop, straw and all, of an before, it is worth trying, because the cost of the done with a ladle. experiment is a mere trifle, and there may be things in our philosophy. In the chemical proportions above referred to, I have only attempted an ap-free." in agriculture as well as elsewhere, not dreamed of proach to the various quantities, but I believe a sufficiently close approximation to exactness has been attained for all practical purposes, especially for that in view.

Baltimore, Aug. 1844. -Albany Cultivator.

derive any benefit from the nitrogen of the air, because, say they, "nitrogen cannot be made to enter into combination with any element except oxygen, even by the most powerful chemical means." Are there not many other combinations in the vegetable organism, that the same power-ful means cannot produce, but that the chemical means of nature can and does continually?

source against the accumulated miseries of a destitute manhood, and a disgraceful old age, is the the women's fault that we have poor butworkshop of the farm. It is useless, at this day, ter, generally, and we must hold them resfor every young man to aspire to the lot of living ponsible. It is perfectly easy to make by his wits, for it is a task in which few who undertake it have the talent requisite to ensure success. How many there are at present "loafing" price, in the dullest market; while poor away the precious years of youth in our cities and butter is a drug at any price.

It is perfectly easy to make the talent market butter with a price is care. Rose and Maggy. Knickerbocker, a thorough-brid powerful Rose and Maggy. Knick villages, who ought to be acquiring the rudiments of some honorable and useful TRADE. Learning is butter again, just let them imagine that I arts, for, the more one "knows" the more likely with them, and that I shall detect the least will he be to succeed, and to do honor both to particle of milk, and am not fond of too Dalhousic, New Brunswick, himself and the profession in which he is engaged. much salt.—New Genesee Farmer.

PURCHASING BUTTER.

"Is your butter good?" said I to the

"Good! my wife has made butter these twenty years, and I should think she ought to know how to make good butter by this time."

He was evidently offended.

"Well, let us examine." The cover was taken off the tub, the clean white cloth (which had been wet in brine,) rolled up, and the yellow treasure revealed. It certainly did look good.

"It tastes sweet; but how very salt it

"We always make our butter salt, to

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

Some of the lumps were then pressed

" Now, my friend, (said I,) if your wife has made butter these twenty years, she termilk is worked out. If that is done, you need not salt it so bad to have it keep well in any place. A very little more only a second quality—as you shall acknowledge, 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 cre of ground, fifty pounds. Still, as I stated churn until now; all the work had been

"If you will get one drop of buttermilk

"Now, taste this, and taste vour own, and say, honestly, if you would not give a higher price for this than your own. Look GIDEON B. SMITH. at it—see how clear and transparent these minute globules are, and how intimately I am fully aware that chemists deny that plants 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 milk."

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

It is strange, that when everybody loves Go to Work.—There are thousands and tens of good butter, and is willing to pay for it, thousands of young men among us whose only re- our farmers' wives and daughters do not take pains to make a better article.

When any of my lady readers make by no means incompatible with the practice of the am to have a nice bit of bread and butter NECESSARY HINTS TO THOSE THAT WOULD BE RICH.

Written by Franklin, in 1736.

The use of money is all the advantage there is in having money

For six pounds a year, you may have the use 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 six pounds a year, which is the price for the use of one hundred pounds.

He that wastes idly a groat's worth of time per day, one day with another, wastes the privilege of using one hundred pounds each day.

He that idly looses five shillings worth of time, looses five shillings, and might as prudently throw five shillings into the sea

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

Again, he that sells upon credit, asks a price for what he sells equivalent to the principal and interest of his money for the time he is to be kept out of it, 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 he 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 he that sells upon credit expects to loose five per cent by bad debts; therefore he charges, on all he sells upon credit, an advance that shall make up that deficiency.

Those who pay for what they buy upon credit, pay their share of this advance.

He that pays ready money escapes, or may escape that charge.

A penny saved is twopence clear, A pin a day is a great 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 Springfield, where they are much admired."-Alb. Cult.

SIBERIAN SPRING WHEAT.

HE Subscriber offers for Sale, 100 bushels of this very superior variety of SPRING WHEAT, warranted pure and free from any

JAMES FLEMING, Seedsman and Florist, Yonge Street. Toronto, Oct. 22, 1844.

THE Subscriber offers for Sale TWO COLTS (male and female) by Knickerbocker, out of Rose and Maggy. Knickerbocker is sired by M Donald, Esq., of Gart, Cornwall, Canada West.

Rose and Maggy are sired by Rosecesvalles, out
of Mares at the West and North Rivers, near
Charlotte Town, Prince Edward Island.

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N B Publication Office of " The British American Cultivator." Toronto, July, 1844.

MOUNT HOPE

BOTANIC GARDEN & NURSERIES.

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THE Proprietors of this Establishment respectfully announce to their Priends and Customers, and the Public generally, that their present Stock of

Fruit and Ornamental Trees, Flowering Shrubs, Plants, &c. &c.

which they offer for sale the ensuing autumn, is unusually large and fine.

The Collection for the Various Fruits for the Garden and Orchard comprises the most popular 18, Cornhill, London, opposite the Royal Exchange. and esteemed Varieties known in Europe and America. The Trees are handsome, thrifty, and of the most suitable Age and Size for successful Trasuplanting and being propagated by the Propietors themselves, with the most scrupulous Care, either from bearing Trees in their own Grounds, or pervision, they can be confidently recommended to the most exact and scrutinizing Cultivator.

In addition to the extensive collection cultivated on the Establishment, they have also on hand a large Assortment of the choicest European PEARS, selected last Spring, by one of the Proprietors in person, from the best Fruit Tree Establishment in to the best advantage France. They are on Quince Stocks, adapted for Orders for Goods of state: they will bear abundantly the year after transplanting. This system of culture for the Pear has been thoroughly tested in Europe and America, and is warmly recommended by the most eminent Horticulturists of both Countries. It annihilates the objection usually raised against planting Pear Trees viz., that "it is a long time before they bear." These dwarfish Trees are at once productive, and moreover, can be cultivated in small Gardens and other limited Grounds, where standard Trees could not be introduced.

The collection of Apples includes 3,000 trees of the valuable "Northern Spy," a native of Western New York, and acknowledged to be one of the best varieties cultivated. It is a large, beautiful, and fine flavoured fruit, and may be kept fresh and sound till the 1st of July. These will be sold

at \$25 dollars per 100 trees.
The Stock of Ornamental Trees, Shrubs, Roses,

count will be made

The collection of Roses includes about one thousand standards, being inoculated on strong stocks. 4 to 6 feet high, embracing the choicest varieties of Hardy Moss, Province, Chinese and Noisette, Monthly, and Tea scented. These are beautiful objects for lawns or borders, presenting the appearance of miniature trees.

A large collection of Dutch Bulbous Flower Roots will be received from Holland in September next, and forwarded, on very liberal Terms, to Amateurs, Gardeners, and Agents.

Persons who design planting this coming fall should send in their orders by the 1st of October at farthest, in order that they may receive early attention. Fall planting should be performed as early as possible, so that the trees may be partially root-

ed, and the earth settled around them before the ar- | THOMPSONIAN HERBS & ROOTS rival of heavy frosts.

It is expected that all orders coming from persons unacquainted with the Proprietors will be accompanied by a remittance, or that some responsi-

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Rochester, September, 1844.

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difficult to procure in this market; with a general Assortment of Drugs, Medicines, &c.

ROBERT LOVE, Druggist, Yonge Street.

Toronto, June, 1844.

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