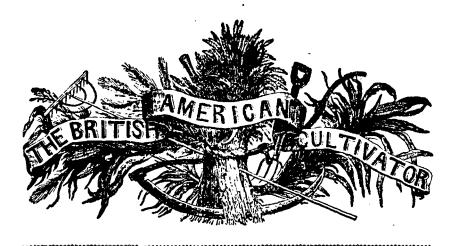
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"Agriculture not only given Biches to a Ration, but the only Biches she can call her own.

New Sories.

TORONTO, DECEMBER, 1846.

Vol. II. No: 12

Canadian Agricultural Societies.

ALTHOUGH much has been written upon a Cieurs. These should be a Provincial. popular system of organizing Agricultural riculture, and to promote such other objects most benefit. only as have an influence in giving an increased production of wealth to the country. exist in every District in the Province;—Agricultural Institutions, based upon sound and in the twenty Districts in Western Caprinciples, if generally established, might be nada, not less than one hundred and twenty made instrumental in adding one million of should be in being before the close of the pounds annually to the wealth of Western present winter. One half of the government Canada; and indeed it would be extremely money granted to every District should be difficult to define limits to the good that appropriated among the Township Societies. might be effected through the agency of such in proportion to the amount of subscription associations. views of these modern Institutions, for the ing portion should be appropriated to the improvement of agriculture and the mecha- District Society. One representative chosen aical arts, no apology is necessary for so fre- by every Township Society in the District, quently recurring to this interesting theme. should take the entire controll of the Dis-

out three distinct classes of Agricultural Sc-These should be styled Township, The three sponder system of agreement, the subject is grides already exist, but the machinery by spot well understood by the generality of the which they are set in motion is very imsocieties, still, we approximately soft the which they are set in more most well understood by the generality of the perfect, and to remedy the evil is probably farmers of this province. As this number perfect, and to remedy the evil is probably farmers of this province. As this number rather a difficult task, especially as those completes the current volume of the Cultivafor, probably no topic could be discussed wine may volunteer the better, in the b that would prove more generally interesting bringing about any change for the better, in to the agricultural reader, than the one we any Public Institution, are ofttimes sushave selected for our leader. The great object of Agricultural Societies is, to encour-improper motives, and that too by the very age the introduction of a better system of ag-parties who would in the end receive the improper motives, and that too by the very

Township Societies, in our opinion, should Entertaining such exalted that they severally raise; and the remain-The organization cannot be complete with-trict Society, by which means the friends of

ests of the body. Township shows or exhi- tainty prevent local jealousies, and be probitions might with advantage take place ductive of much good to the country. The both in the spring and fall, but for all prac- members of the Provincial Board, in all protical purposes, the District Shows need not bability, will be composed of the most pracoccur more than once per annum. To intro-tical business men that are to be met wife duce something like system in the manage- in the Province, whose time could ill be ment of these shows, we would propose that spared from their business; and owing to the autumn township exhibition should take this consideration, together with the imporber; the district exhibition from the 25th to is only right that their entire expenses the 30th of September; and the Provincial should be paid; and besides, they should Show in the first week in Oct. By this receive a fair compensation for the service mode of management only the choicest pro- they may render to their country. The dutrict shows; and the successful competitors in point of practical importance, would fawith some reason enter their prize articles the Province; and to secure the efficient for competition at the Provincial Exhibition. services of the gentlemen who may be elect-We have already stated, that the district ed to the Board, something more than mere societies should be governed by intelligent honorary compensation will have to be grantand otherwise well-qualified persons, chosen ed to them. by the various township societies in the district, who should meet in council as often as ise some of the duties that should occupy once a year; and as the duties they would the attention of the Provincial Board. necessarily have to perform would be oner- 1st. The Management of the Provincial ous, and of great importance to the country, Agricultural Society.—The control which the merabers should have a fair compensa- the Board would exercise over this Association for the services rendered. The most tion, would secure to it a general patronage, important duties of district toards would be, and the benefits, as has already been stated, the efficient government and management of would be of the greatest importance to the district societies, and collecting and report- country. It would be premature, and probaing the best experiments and practice of ag- bly out of place, for us to submit our views riculture, from the various townships in the in relation to the management of the Provindistrict.

already well understood, should consist of lity hold its first session before the close of two members from every district, to he elect-the present winter, and especially as the ed by the District Agricultural Society, or members of that Board will doubtless be pre-District Board of Agriculture, would be much pared with welt-digested rules and regula-

improvement throughout the entire District ture is intended to encourage useful genius, would have unlimited confidence in the pro- in whatever walk of life it may be developceedings of the District Board. Intelligent jed, and especially those of agriculture and farmers or manufacturers should be chosen manufactures, one of the members of the to represent the interests of the townships in Board from every district should either be a the District Board; or if the selections be mechanic or directly interested in manufacmade from other classes, great care should turing operations, and the other an agriculbe observed to select such only as have turist. If the spirit of this suggestion be proved themselves true friends to the inter- carried into practice, it will almost to a cerplace from the 15th to the 20th of Septem-tant duties they would have to perform, it ducts would be brought together at the Dis-ties of the members of the Provincial Board, at the township and district shows might vorably compare with any public body in

It might not be out of place to particular-

cial Agricultural Society, at this period, as The Provincial Board of Agriculture, as the Board of Agriculture will in all probabibetter. As the Proxincial Board of Agricul- tions for the future guidance of the Institute.

2d. Apricultural College and Experimental Farm .- One of the first steps to be taken by the Provincial Board, should be the establishment of an Institution of this kind .-The wants of the country now demand it: and it shall not be the fault of the conductor of this magazine, if both the College and the Farm be not in full operation before the close of the year 1847. A private enterprise under the natronage and partial direction of the Board would, when all things considered. be more likely to succeed, and be conducive of greater benefits, than an Institution placed entirely under the control of either the Board or the Government. An Agricultural College and Experimental Farm, are Institutions of which the people of Canada have as vet but an imperfect knowledge, and to secure success to such an undertaking, men of Indomitable perseverance and of superior practical and scientific acquirements, will have to be selected to superintend its management.

The views advanced by the Cullivator respecting the benefits that would be conferred upon the rising generation of Canada, were Educational Institutions ertablished in connection with a well-cultivated farm,where both the science and practice of agriculture would be taught, and where the cultivation of many new plants would be tested, and the most approved systems of agrieulture practiced, has attracted the attention of a number of the most learned men of this country and England; and it is with much satisfaction we are enabled to state, that measures are being taken between parties living in the Province and London. England, for the establishment of such an Institution in the neighborhood of this city, in the early part of the ensuing spring. party who intends to establish the Agricultural Institution should have the benefit of the advice and patronage of that body at the .commencement.

3d. Agricultural and Mechanical Museum. should be placed in the position that they vince.

could avail themselves of every improvement that is made in their highly important calling; and among the means that is best calculated to promote this object, none, probably, would be more efficient than 1 museum, where models of the most useful and labor-saving machines, geological and mineralogical specimens, and all other, curious or useful productions of the country could be deposited, and thrown open for pub-lic inspection. This Institution should be placed under the entire controll of the Previncial Board, and would require a liberal grant from Parliament, to keep it up in a respectable manner. The Canadian people are not a very inversive people, and therefore they should be placed in possession of all the discoveries made in other countries that would be calculated to develope the resources of the Province, or induce the inhabitants to exert their energies in improving this naturally fine country.

4th. Publishing the Transactions .- There can be no valid reason assigned why farmers should not be as anxious to make themselves acquainted with the best systems of agriculture, as the members of other professions are, in obtaining the experience and views of the most celebrated men of their respective No farmer will object to receive callings. advice and direction in his business from a distinguished skilful cultivator, who may be a neighbor, or in whom he could place unlimited confidence. Experiments are none the less valuable because they happen to be made in a remote portion of the Province, or by what is generally termed an illiterate person. Some of the brightest intellects that any country can boast of, are to be found, as it were, buried in the backwoods of Canada. What we are most anxious to see is, the development of native genius, let it be found in whatever walk of life it may. tem of organisation here submitted, if carefully put to the test, would in a very few years, have the influence of creating as great if not a greater spirit of emulation in useful enterprise, than is to be met with in any other country. Among the numerous means It for developing native genius, and creating a is highly important that the Provincial general spirit for improvement, none would Board of Agriculture should meet before the have a more beneficial influence than that close of the present winter, in order that the of publishing the proceedings of the District and Provincial Boards of Agriculture, provided that these Boards would, through their numerous agents, adopt efficient means to collect reports of the best experiments made 3d. Agricultural and Mechanical Museum. in agriculture, together with the best sys-The farmers and mechanics of Canada tems practiced in various parts of the Fio-

Rearing of Stock

PROPESSOR JOHNSTON'S LECTURE AT ATR.

Subject-Feeding of Stock .- Professor Johnston commenced his lecture by referring to the composition of the vegetable food of man; in elucidation of which he directed attention to several tables, showing the composition of the different kinds of grain. He next came to consider the composition of the animals that lived upon this food. If they took a purtion of any animal-for instance a piece of mutton-and burned it in the fice, they would find that there would be a small part that would not burn away. Thus they would perceive there was a striking similarity established between the animal, the plant, and the soil-that which burned away being called the organic part, and that which did not burn away, the morganic part. The organic part of the animal, consisted of two different substances—the fat and the muscle. If, after separating the muscle from the fat and the bone, they were to take and wash it in water, as they had seen done in his first lecture with the flour, they would find that the water would gradually become less coloured, and the lean muscle would become white. This mass, with the exception of a little fat-which they could not senarate by washing -consisted of a substance to which chemists gave the name of fibrin. Chemically speaking, it was just the same thing as the gluten which they obtained from the flour. Then they had the fat, which formed a covering to certain parts of the body-sometimes interlarding itself among the muscles, separating them one from the other. This fatty matter was nearly identical with that found in all the plants which they taised, in which it was present to a greater or lesser extent. There was also bone in the animal; which, if they burned, a large proportion would consume away, but a still larger proportion would remain. In bone they had a substance called cartilage. In cartilage they had nitrogen present. The fibrin and the cartilage were very like each other in their composition. So much with regard to the organic part of the animal; and if a similarity existed between the general composition of the plant and the animal, they would learn by-andby, that there was as great an analogy between

matter varied with the part of the animal sait varied with the part of the plant. If they looked to the composition of muscle, they would find it to be as follows, in every 100 lbs.~

> Water. 77 lbs. Fibrin, with a little fat, 22 Phosphate of Lime, Other Saime Matter.

And, again, if they looked to the composition of Ox hones, they would find it to be as under -

Cartilage, 33.3 Phosphate of Lime, 57.4 2.0 Magnesia, 5.9 Carbonate of Lime, Soda, with a little Common Salt, 3.4

As in the composition of the inorganic part of the plant, they had seen that it consisted of two general substances, the saline substances and the phosphates, so was it in the animal-the phosphate of lime forming nearly sixty per centage of the whole But, besides the solid part of the animal, it had in its body certain fluid paris. The blood was the most important of these fluids. It was almost identical, in its general composition with the muscular parts of the body; 100 lbs of blood being nearly the same as 100 lbs of muscle. They saw, therefore, that the whole animal consisted essentially, in its organic part, of fat and fibrin, and in its organic part, of saline substan-The plant consisted of ces and phosphates. starch, glutten and fat. The animal consisted of gluten and fat, but no starch. He came now to There was a difference a most important point -and a very important one-between the animal and the plant. The animal contained fat and gluten. The plant contained fat, starch, and There was no starch in the animal. gluten must, however, since it existed in such quantity in the food of animals, serve some purpose in the animal creation. In order to understand this, it would be necessary to explain the functions of the animal economy. The first fact he would notice was, that they all breathed. They inhaled into the lungs a differently constituted air from what they gave out. Only a small quantity of carbonic acid was inhaled by the lungs, but a very large portion was exhaled. A very small quantity of this gas was in the atmosphere, as he had already shown them-only one gallon of it to 2507 gallons of the common air. He likewise demonthe inorganic part of the plant and that of the strated to them that this carbonic acid was formed animal. Of what did the inorganic part of an of carbon and oxygen. They had seen farther animal consist? The proportion of the morganic that 36 pounds of carbon, and 45 pounds of water,

formed 81 pounds of starch. This substance, therefore must be burned in the stomach, physiologists being of opinion that it serves the same purpose in the human body, as coal does in the production of heat in a room. This was an important practical point in reference to the economy of animal food. The plant, in order to sustain the animal, must not only have what will give it fat, muscle, and bone, but what will also give it heat. The carbon given out by the lungs varies under different circumstances. A little man will respire five ounces of carbon in a day; but a tall man, with a capacious chest, who takes exercise, will respire as much as fifteen ounces, and an animal, such as a cow or a horse, from five to six pounds. In order to respire five ounces of carbon per day, we must have about eleven ounces of starch, and the more exercise we take the more starch must we have. Thus was nothing wasted in nature, such a thing as wasting was not known in nature. There was no waste of starch or carbon from the lungs. If the animal was cold more would be required to keep it warm, consequently, in the economy of food, a great deal depended on the warmth and condition in which the animal was kept. If their land was in a cold condition, the animals which fed on it would be cold also-just in the same way as a person, when he entered a cold room, would become cold in proportion to the temperature of that room. Animale that are kept cold will also cat more food. In like manner, if they fed their eatttle on an exposed situation, they must eat more food; but if they kept them in a shed, or in folds dry and sheltered, they would eat less. It was not merely the result of the theory he had explained, on which this principle was founded; but it has been arrived at by actual experiment. The following table showed an experiment made on sheep :---

	Live, Nov. 18.	Weight Mar. 9.	Increase.	8 5	Incr. for each 100 lbs. of Roots,
Unsheltered, In open Sheds, Do., but confined, Close Shed, dark Do., but confined,	108 104 108 102	131 7 129 8 130.2 132 4	23.7 28 4 22.2 27 8		2.0 1.8 3.1

till the month of March. The animal placed in an unsheltered situation had increased 23lbs.; the one in the open shed 28lbs.; the one in the same description of shed, but confined in a crib, 22lbs.; the one in a close shed in the dark, 27lbs.; and the one kept in the same sort of shed, but confined, 20lbs. The increase was greatest where the animal was kept in an open shed; but then the quantity of turnips consumed was double that of the animals kept in the close shed. From this table it was obvious, that in the dark sheds a great saving of food had been effected, which arose from the animals being less disturbed, and therefore less restiess. Motion was found to be accompanied by a waste of substance. Let them consider how the different purposes could be best accomplished. If it were for the purpose of manusacturing dung, as in Lincolnshire, that they kept cattle, intending afterwards, as shey did there, to sell them at nearly what they cost, it was not, in this case, of consequence to save food. They would not, of necessity, give the cattle rich food for effecting this purpose, but that kind of food of which they would consume the most. They would also keep them in a cool place, and give them a great deal of exercise. But, suppose the farmer looked to something else-to lay on fat-he would give his caute those substances which contained a large proportion of fatty matter. Oil-cake was one of these. It was exactly on account of the quantity of oil which it contained that it was valuable for laying on fat. Bran was another thing. Many persons were surprised that bran should be so valuable for fattening pigs; but if they looked at its composition in the following table, they would find that it contained about five per cent of oil ;-

Water, Gluten, 19,3 Oil, Huck and a little Starch Saline matter

100

Oil, consequently, was greater in amount in the husk of the wheat than in the wheat itself also especially abounded in Indian corn: hence in the United States, and other countries where it was grown, it was extensively used for thefattening of pigs. Professor Johnston then alluded to the differences which existed in oil-cake, some The original weight of the sheep was given in | of which was much better adapted for fattening the first column, and the second contained the than others. But suppose they kept their aimals, necesse they made from the month of November | not for the purpose of laying on beef and mutton

The snimal, in this case, required what could must have an additional amount of food, about a and peas-meal were given to young calves, inas-milk as he could; hence he gave the animal such much as these contained the substances essential food as put the greatest quantity of milk-thus not only to supply the bone but the muscle also. saving his conscience, and, at the same time, the The young animals must get food in which phose trouble of going to the pump. In a cheese district phates predominate. It had suggested to feed the object was to give the cow 25 much as it would for sago scarcely contained anything else but or casein, such as oats, beans and clover. The nure in which these abounded, was sure ultimately to lead to us deterioration. He next adverted to the composition of milk, which he stated to be as under:-

Casein, .	•			4.48
Butter, .				3.13
Milk Sugar,	•			4.77
Saline Matte	r,			0.60
Water,	•		•	87.02
				100.00

every ten gallon of milk. The quantity of saline matter in 1000 lbs. of milk would appear from the following table :-

Phosphate of Lime,	3.44 lbs.
Phosphate of Magnesia,	0 64
Phosphate of Peroxide of Iron,	0 07
Chloride of Potassium,	1.83
Chloride of Sodium,	0 34
Free Soda	0.45
	6.77

In order that the cow might produce this milk, it agriculture. Among the many means for making

give it good muscle and bone. The food that sixtleth part of its entire weight. He then west would fatten it would not add to its supply of on to demonstrate that the quality of the milk muscle and bone. In oats, but especially in beans varied with the food on which the cow was supand peas, they had a large quantity of things ported; and illustrated this by stating that the necessary for this purpose. Hence bean-meal object of the town dairyman was to get as much young stock upon sago; but this was very wrong, take of those substances which formed the cure starch. It was necessary to give a growing calf great end of all was to get as much as they could not only what would produce muscle, but what from the animal at a cheap rate, consistantly with would add to its weight in the shape offat. Fro-its health. The animal was a machine so delfees. Johnston then showed that the result of pas-ficately constructed, however, that they could not turing young cattle upon the soil was to deprive experiment with it as they could do with the soil. it of its posphates, which, anless replaced by ma- If they wanted butter, they would give ita food similar to that used in the fattening of animals -such as oil-cake, and oats in preference to other grain, because they contained more oil. The austaining food was reduced to the least possible point when the cow was giving milk. What is the effect of dairy husbandry on the land? If the milk is carried away and sold in the large towns, or carried away in the form of butter or cheese, or in the form of pork when the whey is given to the pigs, what is the effect of this on the land? In In oats there were about 16 per cent. of casein, asmuch as milk contained so much as the phosor curd. In water this could easly be dissolved phates of lime and magnesia, if they went on from the oats; and if a little vinegar was applied, cropping their land, this would ultimately come the curd could be thrown down in the same man- to effect a gradual deterioration of the land. It ner as in milk. Beans and pease contained from made such a market difference in the quality of 24 to 28 per cent. of this casein, which was very the land in Cheshire, that it became much less searly identical with fibria, only that the latter valuable; until, by accident, bones were tried, contained a little phosphorus. In milk also they the application of which entirely renovated the had butter, which was similar to the fatty matter old pastures, and their value had increased from of the food. It also contained sugar, which, like [5s. to 30s. an acre. They would thus see the starch, consisted of carbon and water; and of necessity of supplying bones to land when it had saline matter there was about half-a-pound in been deprived of its phosphates. The Professor then casually adverted to the rearing of sheep: and stated that, as every 100 lbs of wool contained 5 lbs, of sulphur, taken from the soil in the shape of sulphuric acid in conposition with lime, forming gypsum, the same injurious consequences would result to the land, unless gypsum was supplied to it in lieu of that carried away by the wool, The Professor, after referring to the value of farm-yard manure, went on to show the beautiful connection that subsisted between chemistry and

a knowledge of agricultural chemistry more diffused, he advocated the property of the young men in the country forming themselves into small societies, and either by reading or discussion on the many interesting and important subjects that the science embraced, they would soon arrive at such a knowledge as would be of great practical value in the cultivation of the land. He urged them, also, to call in to their aid the services, if possible, of the parish teacher. He did not think that societies so large as the St. Quivox Club were so valuable as the one he had recommended, in semuch as from the numbers present the majority were reluctant to express themselves on the topics brought under consideration. was glad to hear them in several of the parish schools in Ayrahire, Agricultural Chemistry was already introduced as a branch of education. This, he had no doubt, would be productive of the most beneficial results, and he hoped that the proprietors of the different parishes would encourage the schoolmasters in their praiseworthy efforts, by purchasing them chemical appartus for the prosecution of this branch of knowledge. He by no means recommended the schoolmaster to follow up the subject to the extent of analysing the soil, because to enable him to do this he would be obliged to neglect his other duties; and, beeides, as analysis was a most difficult art-requiring many years of application to arrive at correct results--a chemical knowledge in this respect might be productive of the very worst consequenees. He concluded by thanking them, in the name of the Association of which he was the officer, for the interest they had taken in the course of lectures which he had delivered.

ERRORS IN THE PREMIUM LIST.—Hat Air Apparatus.—The first premium was awarded to H. Ruttan, Esq, of Coburg, and the Judges in their report took especial notice of it, and recommended it to the favorable consideration of the public.

Cooking Stove.—The first premium was awardgd to Thomas Towers, Esq., of St. Catherines.

Door Scraper. The first prize for this article was also awarded to Mr. Towers, of St. Catherines.

Best Piece of Fulled Cloth.—The Eyes prize was awarded to John Gibson, Esq., of St. Catherines, and the amount should have been £2 10s. instead of 15s.

Life Members of the Provincial Agricultural Association.

The subscribers to the Cultivator must now be pretty well acquainted with the objects of the Provincial Agricultural Association; and as these objects cannot be accomplished unless the people of the country unite their energies and means, we trust that the position we occupy in the society will exonerate us from all censure, if we should be guilty of pressing the importance of sustaining the Institution, by the liberal contributions of the friends of the inovement, too frequently upon their attention. If we be spared, we expect to see the system of organization, and the improvements enumerated in the leading article of this number, fully carried out in the Western portion of this Province. But all who have thought on this subject, muci be fully oware, that these great improvements cannot be effected without some little invesiment of capital on the part of those who wish well to the movement, and who in return may expect to receive either a direct or indirect benefit from the operations of the Associa-The most feasible plan that could be devised, to secure a liberal patronage, is that of canvasing the country for Life Members. payment of the small sum of £2 10s. will constitute an individual a Life Member of the Provincial Agricultural Association,-and we hope to find hundreds in Canada who have a sufficient amount of patriotism to induce them to enroll their names on the Society's list of Life Members.

We shali publish any additional names we may be favored with, between this and the 25th of December, in the January number of the Cultivator, and shall continue adding to the published list from month to month as we may be favored with new members. We have good reason to believe, that there are some scores of gentlemen. residing in the Home District, who will become Life Members of the Provincial Association; but in a national movement like this, we want to see a numerous list of names from every District of Western Canada. The friends of the Association, we trust, will not forget the claims that this Institution has upon their attention; and we hope that they will not only become members themselves, but press the matter upon the favoruble consideration of others who are not so well acquainted with the objects of the Association.

Feed all fattening animals with perfect regularity-enough, but not too much. Save all your straw well for litter and winter feed.

On Breeds of Sheep.

The management and selection of any breed of sheep must, after all, become matter of pounde, shillings, and pence. The question the farmer has to consider is, what description of sheep will in the long-run return the most profit? and this question must be viewed in strict relation to the management he will be able to adopt on the particular tarm on which he may be tocated. It is not therefore a simple, but a compound ques-It is not merely which breed will make the most firsh and fat, but which will make it in the shortest time and on the least food; which can bear the weather, or hard keep, or traveiling, or a particular mode of management, with the greatest impunity. All these considerations must enter into the farmer's mind before he can come to a sound conclusion. From the want of making these considerations many fatal nustakes have been made, and a flock has been selected attogeter unsuitable to the soil, and incapable of bearing the severity of the weather.

The two breeds which appear as rivals in their claims on public attention are the New Leicesters and the South Downs. It cannot be doubted that, as far as propensity to fatten, an early maturity is considered, the Leicester will not only rival, but eclipse all others; for these quanties the former may justly be considered as a model, and all other breeds will possess these qualities in a greater or lesser degree, in proportion as they possess the similitude of the form and points of the Lercester sheep. The South Down itself will not be an exception to this rule, for if the improved and the neglected specimens be compared together it will be found that the excellencies of the former consist in those points which approximate most to the Leiceeter. The wool, too, 13 also a consideration; for the fleece, from its greater length and weight, will bring in nearly double that of fertile, and the sheep can be tended with much care, and without exposure, the Leicester may be justly regarded as the most profitable of the pure breeds. Its drawback, however, are the incapability of the animal for bearing exposure, or travelling, or hving hard; in fact, its weaker consultation, and greater liability to inflammatory from following their example. disorders. It is thus unfitted for the parposes of In such locatities these sheep could not endure. duced instead of the Leicester; and it is contended that this first cross is the most profitable sheep native breed. that can be fattened, reaking greater and more

al of their origin renders them a greater favourise with the butcher.

The South Down, or rather the improved South Down-for there is a great difference between the two-possesses most valuable qualities; with a propensity to fatten interior only to the Leicester, but with later maturity (often 33 membs, though considerably shorter than what it once was,) this breed are excellent travellers, well adapted for folding, hardy compared with the Leicesier, and capable of living on short passure, and perhaps the best of all breeds for the Down tarms of the South of England. The mutton, too, is more esteemed than any other, with the exception of the small mountain sheep. Perhaps there is no ancient pure breed of sheep dat his undergone so much improvement as the South Down, and it affords the owners of other breeds a proper example, showing what can be done by care and attention, and the application of proper primeples. Nothing can afford a better proof of the sterling qualities of this breed than the facis that some twenty or thirty years since, the price of South Down wool rendered the firece a matter of great importance; and now, although the price is reduced to one-third, and it can never expect to fealise much advance, yet, norwithstanding this, the valuable qualities of the animal, and the improvements that have been made have enabled the breed still to retain a foremost rank in public faunur

With these two valuable breeds, each adapted for different pastures, it may, perhaps, be asked, What need is there of any other? It will, however, be found that in the marshes of Kent and many other places, the superior hardshood of the native breeds has rendered them more profitable than the Leicester, though, unquestionably, cresses with the latter have much improved their value. And notwithstanding the eminent quali-Where, therefore, the posture is very ties of the South Down, they have been found not sufficiently hardy to endure the severities of the Grampian hills or the Welsh mountains. They have been tried and found wanting; vast numbers have been destroyed by the rigours of winter in these blenk situations, and the losses that have accrued to many parties, have deterred others

The Cheviot sheep possess many valuable qualfolding, or for the exposure of the South Downs, ities; decidedly interior to the South Down in and still more for contending with the severities their fastening powers and their early maturity, of the Gramman hills or the Welsh mountains, they are superior in these points to all other mountain sheep, and, in hardshood, even to the Then again, the mutton is by no means so good South Down, and are thus the best adapted to as the South Down, which, however, is partly, their native hills, and all other rastures of a sim-not wholly, owing to the early period (twenty ilar character. When carried, however, to the months) at which if ey are fit for the butcher, and extreme north and the islands of Zetland and partly to the very large proportion of tallow in Oakney, it is said that they are not sufficiently proportion to the lean. Thus it is not a favourite hardy for these extra rigorous places, although it in the London markets, and accordingly, of late is probable, with a little increase of care, they years, the Leicester and the Down has been pro- might be rendered so, and they would then be far more profitable than the ungainly forms of the

These three breeds-the Leicester, the South rapid progress than the Down, which sign-manu- Down, and the Cheviot-may be considered as

breeds, which it may be advantageous to adopt, else. valuable, or have been crossed extensively with some improved breeds. [Extracted by permission, he must labor for him for whatever compensation from a forthcoming work on sheep, by Mr. W. C. the sees fit to give, and take his pay in what and Spooner, of Southampton]-Ag. Gazette.

The Farmer.

than another who has reason to be proud of his or that one, but to suit himself. calling, that man is the farmer. Behold him in branches a hundred of nature's ministrels welcome living. him with a light and cheerful heart to his work, contented man above all others?

The merchant knows not when he lies down at pendent, and always sure of a living upon some hidden rock in the sea and she be Behold the farmer once more, as he returns in the dipths of the ocean.

of anxiety and toil.

lest the raging fire should consume his all.

not only safe, but even while he sleeps his crops would not be a farmer ?- Bost. Cult. are growing, and his flocks and herds are increas-

Another reason why the farmer should be contented, he is more independent than most other men.

The clergyman is dependant upon his people He must preach, pray, and live to suit them; in gives it a most delicious flavour. short, he must have the fear of offending them continually before his eyes or he must go.

be at every body's beck and call, when called smooth. Excellent.

the principal pure breeds which the country pos- upon by night or day, in rain or shine, hot or seems. They are essential to the variety of cold, he must go; he cannot consult his own pastures which obtain, and without them the wishes, or do that which is best for his own country could not be properly streeked. Other health, but he must go, or we will get some one

> The mechanic is dependent upon his employer; when he pleases.

But the farmer is his own master; he is "lord of the soil," he can go and come when he pleases. Messra. Editors -If there is one man more He is not obliged to do his work to suit this one

Another reason why the farmer should be conthe morning rising with the sun and going cheer-liented, is, he is always sure of a good living. fully to his labor; as he goes he is fanned by the Ohentimes mechanics cannot get employment; cool and refreshing breeze that is gracefully way-but the farmer is never out of employment. Let ing the green clad tree, from amid whose leafy the times be ever so bad he is sure of a good

That the farmer has more piece of mind, or in with their morning songs. A contented man is other words is more contented than other men, a happy man. But why should the farmer be a would naturally follow from the fact that his property is invested safer, that he is not in constant In the first place because his property is safe, anxiety about losing it, and that he is more inde-If the farnight but a storm may arise and send his ship mer has not reason to be happy, pray who has?

dashed in a thousand pieces, and her cargo buried from his work at night; see him passing from one field to another surveying the works of his The man of business fears lest he may hear hand One field is covered with waving com, every moment of the failure of some extensive another with rustling grain; another is covered firm, that will sweep him from the avails of a life with a rich crop of tall bending grass, ready for the mowers' scythe IIIs trees give evidence of Another whose property is in buildings, fears a bountful supply of good fruit; and his cattle are quietly grazing upon a neighboring hill. As But the farmer has none of these anxieties; he approaches his house he is met by his prattling storms may rage but they cannot sink his farm—|child, who has long been waiting his return, and houses may fail but that will not effect him-fires who lispingly relates to him the trifling incidents may rage, but there is very little danger of their of the day; and last, though by no means least, reaching him. The farmer can lie down to rest as he enter, his peaceful home he is greeted with with the sourance that his property is safe, and an affectionate smile by his lovely wife. Who

> Liquid Pickle for Meat .- Brown sugar, bay salt, common salt, each, 5 pounds; saltpetre, 1 pound, pimento (bruised), 5 ounces; black pepper (bruised), 3 ounces; nutmegs (rasped), 1 ounce; boiling water, 5 gallons. Mix. This not only imparis a fine red colour to the meat, but also

To Renovate a Razor Strop.—Rub a little clean tallow over the surface, and then put on it the The physician is every body's servant, he must light top part of the snuff of a candle; rub it Improvement made in Agriculture in the Western District.

It gives us great pleasure in being able to publish the following spirited communication from George Bullock, Esq., Secretary to the Malden and Anderdon Agricultural Society. Prize lists of local exhibitions are entirely excluded from the columns of the Cultivator, and by adopting this course, we shall not be liable to recieve censure from any. If we admit mere statistical information from one society, we must, in justice to other societies, admit all who require it: and if the latter should be done, our magazine would become comparatively worthless as a work worthy of being bound as a book of reference. We make this explanation to satisfy our correspondent that his proposition could not be acceded to on our part. report furnished us by Mr. Bullock is of that character, that all who read our journal will value it highly for the information it contains, and especially so, as it relates to a section of the province that is but very little known to a large share of our readers, and at the same time may be looked upon as the garden of Canada, in point of natural advantages.

AMHERSTBURGH, Oct. 3, 1846. Mr. Editor:

The second Agricultural Show of the Union Society of the Townships of Malden and Anderdon was held, in connection with the Fair, at Amherstburgh, on the 1st inst.

The attendance, show of stock, grain, cheese, butter, fruits, vegetables, &c. &c., in torrents nearly the whole day. There vince, and I would beg to suggest, that the was a marked improvement on this occasion best time for holding the Provincial Show in over everything exhibited last year; and future, would be immediately after the New from the spirit manifested by the members, York State Fair-say about the 20th of Sepand even by the inhabitants generally, there tember. The weather is then usually good, can be no doubt of the prosperity of this so- and as many of the members of societies ciety for the future-as every member left from this part of the province attend that this Fair with a full determination of doing Fair, they could, as it were, kill two birds his utmost towards making the next Fall with one stone, and go from that Show to Show worthy the attendance of friends from the Provincial one. a distance.

Some young prize stock purchased by the Society at the New York State Fair, consisting of Durham and Devon Calves, and Merino Sheep were sold by auction to the members of the society, and the prices realised were such as might induce the society to make a practice of importing young stock of the first class on a larger scale in future. Already, within the narrow bounds of our society, (only two townships, and one of them a very young one) we can boast of some of the purest stock of the Durham, Ayrshire, and Devon Cattle, and of the Southdown, Leicester, and Paulor Merino Sheep, besides numerous grades from these and others of improved breed.

The Fruit shown on this occasion was of the finest quality, and could not be equalled in Canada; the Grapes and peaches (grown by James Dougall, Esq.,) for which our soil and climate are so suitable, could hardly be excelled on the whole continent of America. Some of the peaches exhibited by that gentlemen, measured 113 inches in circumference, and weighed as many ounces. are called the montrous pompone. grapes were golden chasselas, white sweet water, Isabella, and Catawaba, all grown in open culture, without any artificial aid, and were acknowledged to be of the largest size and of the finest flavor.

We are glad to learn that you have organised a Provincial Agricultural Society. If it were not for the lateness of the season some of our members would have shown, on the 21st inst., a sample of the stock and prowas excellent, notwithstanding the unfavor- duce of the Far West. But the time was able state of the weather,—for the rain fell too late for us in this distant part of the Pro-

Finally, Mr. Editor, the farmers in this

part of the Province are not discouraged at the withdrawal of protection in the English market. They are satisfied that they can take care of themselves; and if the wheat crop will not pay as formerly, there are other branches that will pay, if rightly managed, even better than that ever did: such as raising wool, stock, butter and cheese, the produce of the dairy, for which this fine Distric is so admirably suited. Some of the spirited inhabitants of this place have built the largest propeller in Canada, and fitted her out in a superb style. She is now on her first trip to Kingston, and as soon as the canals are finished, she and others of her class, which will be shortly placed on the stocks here, will be able to take our produce, butter, cheese, fruits, &c. to Montreal and Quebec direct, without transhipment, and in as short a time as it now takes from Toronto, which will give this distant section of the province a start, and enable it to compete advantageously with those places which are at present enjoying the privilege of being nearer to the large markets; and the facilities these propellers will give to emigrants or persons wishing to remove to the Western District, will no doubt be taken advantage of when the climate, soil, &c. comes to be thoroughly known.

Yours, &c.

GEO. BULLOCK.

THRISHING MACHINES. - Our Correspondent in Restigouche, New Branswick, who requested us to forward him a Thrashing Machine, may be surprised that we did not send him the one he ordered last autumn. It is candid that we should give the reason, which was nothing more or less, than we had not sufficient confidence in the machine to send it so great a distance. As soon as we made up our mind respecting the character of the machine in question, we at once transmitted the order to a machinest in the City of New York, requesting him to fulfil the order asspeedily as possible. The reply we received was, that derate heat (carefully) in a close vesse!, then adp it was too late in the season to ship goods to New pale turpentine varnish, 3 pints. Mix well. Brunswick. We make this explanation to satisfy our correspondent that we did our best to serve him.

Peaches killed by Frost .- On cold frosty nights the cold air settles into the valleys, and the air being also stiller, permits the ground to become much colder, by radiating the heat to the clear sky above. Hence valleys are more liable to trost than hills. Dr. Kirtland of Ohio found that a thermoneter on a cool night, in the valley, sunk down to 27°, while on the neighbouring hill, only sixty feet higher, it never sunk lower than 32°, or the freezing point. There was a hard frost in the valley, but none on the hill.

Peach trees in warm valleys have their fruit buds swollen soon by warm weather; then cool weather succeeding, destroys them. Hence it is often found that the peach crop on hills is good, but in low places is entirely destroyed. One cultivator lost only one crop in twenty years on his orchard which stood on a high hill, while his neighbors, whose trees stood low, lost every third or fourth on an average.

An interesting case, showing the preceding principle, occurred lately within the writer's observation, when a very severe and late spring frost k'lled entirely all the young leaves on the lower part of hickory trees standing in hollows, while those on the upper parts of trees were untouched by frost, and remained as fresh and green as ever .- Cult. Almanac.

When we are alone, we have our shoughts to watch; in our families, our temper; and in society, our tongues.

Smoke Protector .-- Mr. Wallace has exhibited and explained to the British Association his Apparatus for enabling persons to enter places on fire without danger from smoke, by means of breathing through water. A box of tin, containing the water, is placed on a man's back with tubes connected, forming a ring round the body and straps for the shoulders. A hood of Mackintosh cloth, glazed in front, is put on the head, and being attached to the side tubes, four gallons of water will enable a person to bear the densest smoke for twenty minutes. The Protector resembles the diving apparatus in appearance.

Mastic Varnish .-- 1 Gum mastic, 5 pounds; spirits of turpentine 2 gallons. Mix with a mo-

^{2.} Mastic, I pourd; white wax, I ounce; oil of turpentine, 1 gallon. Reduce the wax and mestic small, then digest in a close vessel, with heat, until dissolved.

Science Facilitates Money Geting.

Science, in its most comprehensive signification, means knowledge. Knowledge is our cognition of material and spiritual things through the medium of our external sources, internal consciousness and reasoning faculties. To know, implies, a use of our mental faculties. To know a thing is to comprehend it fully, in its essence. its properties, its uses, and all its relations to other things. The field of science or knowledge; is boundless as the universe. It is wide enough and broad enough to engage all our faculties forever, and continually elevate them in the scale of developement. It need scarcely be mentioned here that the mind is progressive in strength and power,-that its operations are all at first exceedingly limited and simple, but gather force and comprehensive capacity until it becomes able to span the universe and unfold its mysteries. The child is weak in body and mind, but the truly developed man is strong physically and mentally. But if a person grows up in the exercise of his bodily powersonly, he will remain a child in mental manifesiations. His course through life, as marked out by himself, will exhibit a childlike vascillation, in decision, unsteadmess of purpose, and ignorance of the greatest advantage and profit. These truths are exhibited in daily experience, and acknowledged by all. Science gives strength, energy, activity and foresight to the mind, and hence us indispensable unity.

1. The first position I shall take, is, that education is as necessary to the farmer as to him of any other parsuit-the learned professions are not excepted. Farmers and all, have seemed, and still seem to acquiesce in the rumous sent:ment, that a thorough education is only necessary for those who intend to obtain a livelihood through the medium of a profession. Hence they have agreed to let them monopolize all the learning of the age. A farmer sends his son to an Academy or College, and this deemed sufficient evidence, that he is destined for some elevated station where he-can get a living by his wit. Ask a farmer why he does not provide his sons with the means of a good education, that is, more than is obtained at a common school, and he will generally reply, "O, they are only going to be farmers, and it is useless to waste money in giving them knowledge." Against this sentiment I protest, here, now, and forever. Nothing can be more suicidal. dollars are worth, at least, one handred per cent But, says one, a farmer can chop, log, plow, more expended on the education of a farmer's son,

sow, thresh and go to mill and market without much "larnin," but how can the professional man get along without a good education? A professional man can succeed as well, yea, even better without mental discipline, than the former. It is not known, that, while the people are uncultivated, humbug is more available for the lawyer, physician and clergymen, than real science. They are well aware of it, and the world is running over with humbug. But does the farmer's business afford any chance for the successful investment of this species of capital? The ignorant Doctor can turn hambug to a profitable account, but the ignorant farmer caunor, and is a continual loser by his ignorance. Let, then, the sickly sentiment be banished. The farmer needs as much knowledge as any other businessman. This point will be further elucidated by what follows:

2. But why is science necessary to the farmer in money getting ! I answer, f r the same reason that it is necessary for any other individual. whether in commercial or mercantile, or professional business. Taking mankind indiscriminately, the uneducated are rarely successful in any branch of business. There may be many examples to the contrary appearing, but all these it will be found are educated in branches most necessary to their pursuit, if not by the instructions of others, by their own activity, industry and energy of thought. Some, (but they are few) with strong natural powers early learn to think, and make life a continual scene of study, especially in all matters pertaining to their occupations. Small incidents, or apparently trifling circumstances will sometimes give the mind such a direction as will prove of incalculable advantage. It takes but little in early life, to render many individuals favourites of fortune, or the scattered sons of adversity. Hence it is no argument in favour of ignorance that some unschooled individuals are successful in money getting. In any capacity to which he may be called, a man asks according to his power. There are two kinds of business power-knowledge and money. Money without knowledge is useless, and soon flies to the winds , but science without money is productive, and will soon command it if wanted. This is the infinite advantage of the former over the latter .- - hence money cannot be so profitably invested as in disciplaining or educating the young. One thousand

than in leaving it to him at last with common known by every farmer's boy. To estimate the ignorance. The mind is capable of infinite expan-simplicity of agriculture, let us look at it in its sion, and wable to reason, generalize and conclude reality. Besides embracing much of almost every in proportion to i.s strength and knowledge. The branch of learning it draws extensively upon naturally strong mind is doubly strengthened by Chemistry, Mineralogy, Geology, Botany, and discipline, and thus its reasoning connected, while Meteorology. The first teaches the composition the weaker intellect of him who would be the and properties of the different soils, and species dupe and victim of the cunning, would be rendered of vegetation, together with that of light and mighty enough to cope with the world, to succeed heat, air and moisture, and every material thing in business, and maintain its rights. Hence, the The second teaches the description and classificaweak need discipline, if anything more than the tion of the extensive variety of minerals which etrong. But it is difficult to discriminate in youth, make up the globe, and constitute the basis of the extent of his knowledge.

farmer in money getting? It enables him to tion. By these sciences we are enabled to know seize upon every hint, every new occurrence, and exactly the adaptedness of different soils to differevery phenomenon that securs in the range of his en grains, grapes and plants, before planting, and pursuit, and turn them to profitable account hence the farmer can give each kind of seed its resources, he is able to take such advantage of even delay of repeated failures. He is also thus enafamiliar things and perpetually recurring incidents tiled to goard his farm, and keep each field in its as would escape the attention of the ignorant, original vigor and constant productiveness. Had The falling of an apple was nothing new or ex- we time and space, we might give some idea of to us by the discoverer. Yes, "why where they she needs is mental power. not thought of before?" Simply because there! had been no one who thought enough to think of ous, and does it not require as much varied learning them. The unintelligent farmer does little more as any other parsait? And if discipline and than follow in the footsteps of his father, and iffscience facilitate money getting in the professions. the father taboared under disadvantages and met will they not much more facilitate it in agriculwith frequent tosses that might have been avoided fure? The lawyer, doctor and clergyman deal he also is toiling for nought, under this erroneous with mun, while the farmer deals with nature. example, not knowing how to correct it. He does The study of the human character may be intrinot dream that any improvement can be made case, but the study of nature in her greatness and and frequently persists in following the old prac-grandeur is not less so. tice long after others have made thousands by Bur let it not be understood that science and a adopting a new course. Many, too, likewise cultivated mind are valuable only in feethtating

and the safe rule is, to educate all. In every soil, while its hand-maid, Geology, teaches the business enterprise, there are many things to con-manner in which they enter into formation of the sider and forsee in order to ensure success. The earth, the signs by which different soils may be farmer has as many difficult problems to solve, known, &c. Botany describes to us everything and as many intricate calculations to make, as that vegetates and blooms, and Meteorology di-The correctness of his rects our attention to the winds and the storms solutions and the accuracy of his calculations. and enables us to prognosticate the changes of the depend upon the strength of his faculties, and the natural elements. To these may be added vegetable Physiology, which teaches the influence of 3. But wherein does science directly aid the light, heat, earth and water in producing vegeta-Having a mind well disciplined and fraitfal in most natural nurse without incurring the loss and traordinary in the course of nature, yet a Newton the simplicity of agriculture. With proper knowseized upon the trivial occurrence and developed ledge, the farmer might make more money with the great law which governs the universe. Almost a pleasurable amount of toil than he now does by all great discoveries have been occasioned in such constant slavish labour. Ohio is not half as a manner as 10 excite our astonishment that they productive as she should be with the same physiwere not thought of before, after being explained cal effor: She has animal strength enough, all

Is not then, the basiness of the farmer as arda-

ridicule what they call "book farming," as though money getting. No, no, they have a nobler, all the rou ine of their business were simple and louiser end in view—the elevation of the charac-

ter and the promotion of human happiness. have in charge the mighty spirit of them, and ourselves to the best of our ability. their sublime mission is to exalt it above the dust eternal interests of his being-the interests of the glorious mind .-- Ohio Cult.

L. A. HINE.

Cincinnati. O.

The Provincial Advertiser.

The friends of Canadian ent. , se will doubtthe people.

It is with extreme regret, we are obliged to prejudicial bearing upon Agriculture, Trade, largest in the country. Commerce, or Manufactures. Holding the doc-

They publish it, we have resolved to perform the task

The Provincial Advertiser, so long as we shall of earth and the glittering darkness of gold and have the honor of conducting it, shall be a fearcorrupting wealth. They facilitate money getting less advocate of truth; and without favor or efonly that man may have time and means to enno- fection, shall endeavour to encourage real merit. ble himself, and grow up into all perfection. This whether it be found in the highest or lowest walks mission of sciences will be considered in my next of life. The subjects discussed in its Editorial Here I close for the present, most earnestly com-columns will be those that will have a direct mending to the attention of the reader the only bearing upon Domestic Manufactures, Emigration, Internal Improvements, Trade, and Commerce, and an occasional sketch of the improvements made in the Cities, Towns, Villages and Settlements in the Province. The latter information will especially make the Advertiser valuable to those who wish their friends in other countries to be made acquainted with the actual state of things of here. In many important parless rejoice to learn, that a Non-gaper is about ticulars the Advertiser shall differ from its conbeing established in the Province, to be devoted temporaries, and in none more widely than in its almost exclusively to the advancement of their strict neutrality to what is generally understood interest. In publishing the Provincial Adverti- to be the party politics of the country. It shall ser, we have only one great end in view, viz :- have but one object to accomplish-the developthe development, if possible, of every known ment of the resources of wealth; and only one source of wealth in this naturally highly favored party to serve—the entire producing classes in Canada contains all the necessary the province. Any Journal that is calculated to facilities to maintain a dense population in com-bring about the ends contemplated by the Pubfort; and indeed few countries can boast of a lisher of the Provincial Advertiser, should have more healthy climate, fertile soil, and greater | "n extensive circulation; and in fact, should be facilities for an honest, industrious man, of ac- read by every intelligent in lividual in Canada. quiring an independency from the fruits of his The question at issue is, how can this object be toils; and this being the case, it is important that secured? The method by which we purpose to the powerful engine-the Press should be em- get th Provincial Advertiser into an extensive ployed in promoting such objects as have a ten- and very general circulation is, to put the subdency to raise the character of the country and scription price so low that it shall virtually cost nothing to the subscriber.

The British American Cultivator, with its acknowledge, that, in many important particu- present circulation, remunerates its conductors lars, the people of this Province are behind their to such a degree, that they not only feel encourneighbors; this should not be the case, and need aged to persevere in the enterprise, but are deternot be, if all who have stake and influence in the mined to give a bonus to each subscriber, in the country, would unite their exertions in bringing shape of a Canadian Newspaper, to be issued about salutary changes in those laws that have a lonce per month, on a sheet the size of one of the

Some individuals may object to a Newspaper trine to be true, that every man has the power of being issued so seldom as once per month, but to exerting a beneficial influence upon society, or, show that this objection may be remedied, we are at least, in the immediate circle in which he prepared to make the following liberal offer to moves, after much reflection, we have come to our Patrons:—as soon as the circulation of the the conclusion, that the demands of the country Cultivator amounts to ten thousand subscribers required just such a Journal as we are about pub- the Provincial Advertiser shall be issued semilishing; and as no one else could be induced to monthly; and when it amounts to fifteen thou-

eand subscribers, it shall be issued tri-monthly; and when it amounts to twenty thousand, the Provincial Advertiser shall be sent to all the subscribers of the Cuttivator once per week. appears to us to be a most trifling task for any man who has any influence at all, to obtain twenty subscribers to a half-dollar Magazine, containing such a vast fund of practical useful information as is contained in the Cultivator. the six thousand subscribers to this work would set about the task in good earnest, they could in a single day obtain even a greater number than we require to warrant us in issuing the Provincial Advertiser once per week; and in all probability very many of our friends will put forth an is clapsed, we shall be under the necessity of formertiser weekly.

Cultivator for the year 1846, and the subsequent crauon of an enlightened public. numbers to only the subscribers of our Magazine.

The foregoing announcement will serve to show, that the conductors of the British Amerirean Cultivator, are desirous of making their work not only a cheap, but an efficient organ for the Agricultural and Manufacturing classes. friends of the enterprise will evince, we trust, a disposition to keep pace with the improvements of the day; and the moment we are made some fied that the people of this Province are anxious to be in possession of the best experience and practice of agriculture, shall we put forth renewed exertions to furnish them with all the information they could possibly desire. If the farmers of Canada desire the British American Cultivator and Provincial Advertiser to be conducted with much ability and spirit, they must put their shoulders to the wheel, and procure for these works a large circulation. We are willing to make any reasonable amount of risk and sacrifice for their good, but in doing so, we want to see the classes whose organ we profess to be, alive to their own and their country's best interests.

Back Numbers of the Cultivator.

1846, have failed in getting the work complete, saved to fatten the land. Any pit which may be by furnishing us with a list of the deficient num-|made for the purpose should be protected from bers, they shall be transmitted by mail without the weather.—West. Farmer.

delay. The publishers are most anxious that every subscriber shall get his full supply of numbers. We do not hold ourselves responsible for the negligence of others. It a person pays his subscription to an Agricultural Society, or to an individual, with an understanding that certain benefits shall be derived, he has a tall right to look to the party who received the money for the proposed benefits, and not to others. It might so happen, that strangers may go through the country and represent themselves to be Agents for our work; and to guard against such imposters, we wish it to be distinctly understood, that we have no travelling or paid Agents of any kind. Agricultural Societies that adopt the plan of supeffort to obtain as large a circulation as possible, plying their members with the Cultivator, are in the hope, that before one half the coming year, our Agents; and where this system is not put into practice, any respectable person muy use his warding to each subscriber the Provincial Ad- influence in his neighborhood to get subscribers at the reduced rate of 2s. 6d. per copy .-- Where the The first two numbers of the Provincial Adver- former method is not put into practice, we hope tiser shall be sent to all the subscribers of the that the latter will receive the favorable consid-

> A good plan of making Manure.-A writer in the Southern Planter recommends the following plan of making manure, of which we highly ap-

"Have a pit thirty or forty feet square, and two or three feet deep, with a good bank around it. In this pit let the materials, viz: oak leaves, pine tage, earth, &c, be put in suitable layers; on which throw all the slop water, soap suds, yardsweepings, as ley, contents of chambers, and in short, every thing that can be conveniently got together. It may be at any convenient distance from the kitchen, so that the slop-water, soapsuds, &c. may be conducted to it by a trough. Be sure that no water gets into it in any other way. If at any time it should become offensive, start your teams immediately and cover it with sand or earth sufficient to prevent the escape of any effluvia." We say we approve of this plan of making manure; but we think it might be improved by sowing plaster over each layer of the materials of which it is composed, and occasionally, say at intervals of two or three weeks, sowing it over the surface, by which means all unpleasant Many of the subscribers of the Cultivator, for smells would be avoided, and the enriching gases

Indian Corn.

Having lived in America six years I can speak with confidence as to the use of Indian corn , for the last fourteen years we have used it almost daily in our family, which is large I have lately been applied to for receipts, and to save trouble, and if possible to aid the spread of this excellent artiprinted. I have just seen Dr. Bartlett's pamphlet, from which I think no one would learn how to use corn in any shape. I send you a sheet of my by publishing them I sent some to Father Matthew, who tells me they are the plainest and most useful he has seen, and that he has caused a few thousand copies to be reprinted .- B H.

Yellow Corn is far more nutritious, and tastes better than white corn. Indian corn meal must not be ground too fine; it generally requires to be sifted is good food for pigs. Bread cannot be made of ladian me il alone : ene-third of me il to two-thirds of wheat flour is quite as much :s the bread will bear; more meal would make it too sweet and sticky. To make bread, t ke for ex mple, 7ibs. of Indian meal, and pour boiling w ter on it till it is all wet-it never knots like flour; then let it stand till it becomes milk-worm, and stir it in a stone and a h If of flour with the hands; proceed then exactly as you would with wheaten bread; of course but little more water will be required. It t kes rether Linger to bake than whe iten bread.

Indian Meal Dumplings are made exect'y like

Johnny Cake, which is, in fact, a pudding, and ore to be eaten hot, generally as a b cakfast dish. eaten hot, is made thus: Take about two pints of Sweet Conn Cakes.—Mix one quart of milk, on the salt and water, and one bearen egg. Grease a for twenty minutes. water, as convenient.

N. P .- Johnny C ike should never be made thick: an inch deep is enough.

Mush is Indian meal stirred into cold water, or milk and water, quite thin, and then beiled for bout half an hour. It thickens very much, so that is necessary to stir it frequently, and to add cold water occasionally. It is also called Indian hesty pudding, and is usually eaten with treacle or with milk.

Indian meal till it is very stiff; cut it out of the pan in pieces about half an inch thick. and in be f or pork lard. It is excellent.

Boiled Indian Pudding .- Make a stiff batter, by stirring Indian med into a quart of milk or w ter. Add two table spoonfuls of flour, three of brown sug r, two ter spoenfuls of ginger, and two of sal'. If you make it with water, mix in a litt'o chopped suct and one egg, but with milk these are cle of diet, I have had those which are most useful not required. Tie rather losse, and beit for three hours at least.

Baked Indian Pudding -Boil three or four pints of mik, according to the size of the dish you mean to fill, and stir in Indian meal till it becomes receipts, hoping you will further their circulation about as thick as suff batter. Sur in two cr three cuuces of butter, and h lf a ten cupful of brown sugar. Add according to taste either a little grated lemen peel or any spice you like. Butter a shallow earthen baking dish, and bake in a moderate even for three-qu rters of an hour, or longer if needful. When cold it will easily turn out, and this pudding is better cold than het.

Plain Indian Pudding -Scald a quart of milk, and the coarsest brin taken out; this when boiled and stir in seven table-spoonstul of Indian meal, one tea-spoonful of s It, one of ginger or cinnamon, and half a tea-cupful of treacle. Grease a baking dish, and bake for about two hours.

Indian Meal Gruel.—Stir a table-spoonful cr two of meal into cold water; boil it till it is thickened as much as you like.

Indian Puncakes .- Mix about a pint of meal with sufficient milk or water, and one beaten egg to make a thin batter; fry them in as small a quantity of I rd as possible.

Corn Cakes or Corn Bread .- Pour boiling water with a little salt in it on Indian meal; mix it as stiff as you can with the hands, roll it into balls the suct dumplings; or if you prefer them without suct, size of an orange, then flatten the balls, till the taix them with milk instead of water; they require cakes are about half: n inch thick Fry them in a longer time in boiling than flour dumplings If any small quantity of beef lard, merely sufficient to is left to be cold, it is good cut in slices and fried. prevent them sticking to the pan or burning. They

Sweet Con Cakes .- Mix one quart of milk, one Indian me il, and mix with it about one table spoon- beaten egg, n tea spoonful of salt, and half as much ful of melted pork lard or clear beef dripping : soda, and two tuble spoemule of tree ele. Pour this dissolve one tea-spoonful of salt and half a tea- on meal and stir it well till it becomes thoroughly spoonful of soda in a tea-cup, with cold water; pour mixed, and stiff enough to make it into flat cales milk into the meal till it forms a stiff batter; add like those in the last receipt. Fry them for fifteen

shallow tin, such as is used for Yorkshire puddings, Light Corn Bread.—Stir four pints of Indian and pour the batter in. Bake it in a brisk oven for meal into three pints of tepid water; add one large about two hours. You may make Johnny Cake tea-spoonful of salt, let it rise for five or six hours, without milk, by putting rather more lard in it; or then stir it up with the hand; use as much dough if you please you may may make it with milk and in each roll as can be conveniently shaped in the hand; make oblong rells about an 11 ch and a haif or two inches thick; bake in a brisk even.

Plaix Corn Bread -T ke six pints of Indian meal, one tea-spoonful of salt, four pints of hot water, and mix thoroughly with the hands; let it st nd for half an hour or more, then form it as in the lest receipt, and bake it in a hot oven.

Remarks .- All kinds of corn bread require a hotter oven than flour bread. Never grind the Fried Mush.—If any mush be left, stir in more corn too fine, or sift it through a fine sieve; no

matter how coarse the meal if the husk is removed. The hotter the oven or Dutch oven, so that it will not burn the dough, the softer and sweeter will be the bread. Homing is a dish hardly known in this country, except by name. It is a western word, and a dish most common in the western States of America; it is simply "hulled corn." The way to prepare it is this -Send the corn to the mill and have it cracked or ground as coarse as possible, if there is any meal amongst it sift it out, and retain only the cracked corn for hominy. The mill will have disengaged the skin, so that the cook can wash it off, this should be done in cold water, rubbing it with the hands, and changing the water two or three times. Another method of getting rld of the skin is to soak the corn for about ten minutes in soda and water, or in lye, and then pound it in a mortar; but this is too tedious. When the hominy is thus prepared, put it into a large pot of cold water, and boil it steadily for six or eight hours. Add hot water frequently whilst boiling, otherwise the hominy will burn and become dark. It should be perfectly white, like well boiled rice. Send it to table dry and hot. The usual way in the western States is to boil hominy twice a week, and set it by in an earthen vessel for daily use. When wanted for breakfast or dinner, put a piece of butter into a baking dish. melt it, then fill the dish with hominy, well mashed down; let it heat thoroughly, and it is fit to eat. Some people allow the bottom to bake, then turning it topsy-turvy in the dish, the crust serves to keep it hot. For frying fish, use coarse Indian meal instead of bread crumbs. For stuffing, use Indian meal instead of grated bread .-- Ag. Gaz.

Circular Saws.

It was may years after the invention and introduction of circular saws in this country, before mechanics would be convinced that there was any utility in them; and even those who were induced to make a trial of them, generally abandoned them after a short time, as requiring more labour and attention to keep them in repair than the value of the use of them; and even now, after this article has come into general use and is considered among the indispensibles there are many, and perhaps the most of those who have the management of them, who still seem to be totaly ignorant of the true theory and scientfic principles of managing the circular saw: they only know the same after this article has come into general use and is considered among the indispensibles there are many, and perhaps the most of those who have the management of them, who still seem to be totaly ignorant of the true theory and scientfic principles of managing the circular saw: they only know the tentory and scientfic principles of managing the circular saw: they only know the tentory and scientfic principles of managing the circular saw: they only know the same than they are the same than the perhaps that there was any utility in them; and even now were induced to make a trial of them, who set it is not if the operation that they are the same than the perhaps that there was any utility as any whose yet it is not if the operation to the operation to the perhaps the managing the circular saw: they are the same than the perhaps the most of them, who set it is not if the operation to the perhaps the most of them; and even now, after this article has come into general use and is considered among the induced to make a trial of them, who set it is not if the operation that the perhaps the most of them; and even now, after this article has come into general use and is considered among the perhaps them was any utility and the perhaps the most of them; and even now, after this article has come in the perhaps the most of them; and even now, after the perhaps t

aid of science and native genius succeeded in reducing the management of these articles, to a tolerable degree of perfection. In a majority of cases in which we have observed the management of circular saws, we have found that from one half to three fourths of the power applied to driving them was worse than wasted, -we say worse, because the saws and machinery were actually injured by the application of a useless surplus of power. The most common error consists in giving the saw too great speed, to remedy a deficiency occasioned by the irregularity, and want of uniformity in the teeth of the saw. In most cases, 300 pr.-a hule short of one horse power —is amply sufficient for driving an ordinary 13 inch saw, for slitting seasoned planks, yet it is not uncommon to see three times the power expended for that purpose, and the work but poorly done at that. Saws are often driven 2000 revolutions per minute, when 200 would do much better.-It often appears, when a saw is driven with violent speed, that not more than four or six teeth of the saw do any execution, while the others by their friction, use up the power to no purpose. or if all the teeth are of uniform length, and all sharp, the wood is ground into fine dust, like that produced by a common file.—And with the high speed above mentioned, if there be but one horse power applied, and the saw contains 80 teeth, of which ten are cutting at the time, then there can be but haif a pound of force applied to each tooth, but if the same power be applied to work but 300 revolutions per minute, then there would be something more than three pounds applied to each tooth, sufficient to enable each, if properly adjusted and sharp, to cut one eightieth of an inch; or equal to cutting 300 inches in length per minute, which is about three times as rapid as the same saw, with the same power would perform under a speed of 2000. There can hardly be found such an article as a circular saw, whose teeth are perfectly uniform in length; yet it is not a difficult task to adjust them correctly, if the operator has a guage properly adjusted and gives due attention to the subject. In general, the best policy in managing a circular saw is to have the teeth kept sharp and well adjusted and to give the saw a strong but moderate motion.-Sci. Amer.

Rushlights.—Make them in the same way dip candles.

Caring Provisions.

A writer with the signature Zea, gives some directions in the Montreal Witness in regard to ouring provisio s for the E glish narket, which may be both useful and interesting. He is in favor ol dry salting, as it is called, that is rubbing the ment with salt, instead of putting it in brine. This mode, he thinks of great importa ce; for he obseves, "it takes away the blocd, cures the meat, condenses it, coagu'ates the albumen, and renders it not so liable either to spoil or to become salt. Hams and breen, it is well known, cured with dry salt, can be kept perfectly well, though of onquarter as salt as those prepared in the brine tub, indeed scarcely to be considered as salt food at الله

The quality of salt he deems of the next consequence. The sal I ate in "the States, he thinks, is too often impure, though he says the manuf cturor might refine it so as to be as good as any other.

Cleanliness is another point which he consider: as deserving much attention. He says, " washing the meat in water before finally packing it up for sale, should never be neglected; and care should also be taken to avoid all kinds of dirt. The people of Britain, correctly enough, are very particular in this respect; they like to see the color of meat, and so, partially, to be able to judge of its quality." "Beef," he says, "shou d be cut into six pound pieces, and pork into f ur pound pieces, the former to be packed in tiers es of 300 pounds, the latter in barrels of 200 pounds, each containing fifty pieces." "The reason for this," it is said, " is that beef, being generally served out to men at sea in greater quantities than pork, it is more convenient to have it in larger pieces, nithout weight g; pieces of those sizes are also more perfectly cured through than larger pieces, and when of a uniform size they pack better. The pieces of beef being larger than those of pork, it is obviously better that larger casks be employed to hold them more conveniently. Even when intended for domestic use, uniformly sized pieces are more convenient than those of various dimensions, requiring to be cut before being used, the piece left being thrown back often carelessly into the cask, and liable to get rusty in consequence."

only value, he thinks, is to give color to the ment. follows:

"I. The pieces must consist of, for beef, an pound pieces, and pork, four pound pieces.

"2. The salt must be good, and but very little

saltpetre must be employed.

"3. The meat must be dry rubbed for three or four days, at least once a day, to extract a certain quantity of water, and to chemically after the meat.

"4. The meat must be put into pickle, so as to cure it sufficiently; in this it should remain ten days, or until it is required to be packed.

"5. It must be well washed in water, if neces-

sary scraped or cut.

"6. Packed away, if beef, in tierces; if pork, in barrels, with good coarse salt; the packages filled up with clean pickle.

"For dried or smoked meats, the dry salting alone should be emplyed; they will be found of a perfectly distirct fl. vor from these cured alone in pickle; and although siightly salted, keeping far better than provisions so highly salted by the wet

process, as to be scarcely eatable.

"The use of sugar or molasses is daily gaining flavor, among prekers; as preserving meat in a superior manner, having a finer flavor, keeping beb ter, and never becoming rusty; and however old, never excessively salt. It has also been asserted on high medical authority, that the use of sugar in curing meat, would prevent that fearful discase sea scurvy. It has been used in curing hams for a long period, indeed a good flavored ham cannot be prepared without it; but it is of the greatest importance in curing beef, which is to be kept for a le gth of time, or which is required of a fine flavor.

It is used in the first process, along with the salt for dried provisions---say o e pound of sugar, or ore pint of molasses to four pounds s.lt. With pickled meats, it is used in the last process along with salt, to pack up the meat in the cask, say about half of each, sugar and salt.

"As regards the kinds of beof to be packed; the best description consists of prime mess, the pieces rejected from mess causing too great a loss to the The coarse pieces of the leg, which are rejected from prime mess, can be boned, dry salted, and dried; in which way they yield as good a return as the rest.

"Owing to the great local demand, the most de-He is not in favor of the use of saltpetre. Its sirable description of pork consists of mess: the rib pieces of hogs weighing over two hundred pounds The points most deserving attention, he sums up as should be so packed: The lams and cheeks, as also the fore part, consisting of the neck and should dor in a place, should be cured and dried; the fashion of removi g the bones from the I tter is worthy of adoption, as when the bone is left the meat is much more apt to spoil, besides being an awkward joint. Prepared this way, the pieces rejected fetch as good a price as the rest. When the pig is too small for mess, but large enough for prime, the latter should be made, reserving the bams and checks; if too heavy for prime, remove some of the rib pieces to add to the mess; prime mess neither suiting the British nos Canadian markets; whereas prime suits the British and West India demand better than even mess."

It is known that provisions are sometimes preserved by being p cked in air-tight vessels. In relation to this process, the writer from which we quote charves:

"Provisions are preserved in many places without salt, by putting them together with water into metal cases, putting the cases i to water to boi', converting the water in the case into steam, thus expelling the air, the metal case is the soldered down. Provisions thus put up keep unaltered for any length of time.

"The only objection is the expense, they having generally been prepared at places where provisions are costly, and put up in small packages. By packing where provisions are cheaper, and using large cannisters, I do not see any reason why they should cost more than if prepared with salt.

"But it has often occurred to me, that the preserving of animal food might be simplified by filling up the packages with melted fat in lieu of water; that of the animal to be packed, being prefer bly employed, in which case wooden a ske might be used, and boiling would not be necessary. The meat should be free from large bones, and immersed in hot fat long a ough to expel the air, then put in a cask previously saturated, the fat poured on as filled.

"For sea use or export to the West Indies, this article would be invaluable, and would be cheaper than the us al mode of curing in i la d places, where silt is expensive, as all the material required would be on the spot, the fat selling as well with the meat, as if, as usual, rendered into tallow, and

culinary purposes could be easily removed, withor by exposure to the fire, or immersion in boiling water."

"In the Liverpool Times, I in d the following paragraph, under the head of "New Important from America:

""Some barrels of fresh pork have arrived at this port from America. It is preserved fresh and wholesome, by filling up each barrel with melted lard,""—Alb. Cult.

Compound for Fattening Cattle,-Flax-seed and oil-cake have long been considered very valuable for fattening cattle. The English farmers prize these articles highly, and great quantities are imported and used in the British islands. Oilcake is even carried from this country to fatten English beef. One great advantage which the English farmer thinks he derives from the use of it, is the improved quality of the manure, and this is considered of such consequence as to balance a large portion of the expense of the cake. Flaxseed or linseed oil has likewise been sometimes used, mixed with bran, &c., for fattening animals, and the effect has been a very rapid gain. We have occasionally used flax-seed for cattle with good advantage, by boiling it and mixing with meal, cut hay, &c. We recollect the practice of one man in particular, who, more than twenty years ago, was considered to have great success in fattening cattle. He boiled a quantity of ground flax-seed, or instead of that, pulverised oil-cake, with potatoes, and scalded in meal, (either from barley or corn.) in such quantity that when the mixture was cold it could be cut out in pieces, and in that shape was given to the cattle while they were in their stalls .- Al. Cult.

Mixing Manure with the Soil.—A very great loss which most farmers sustain, is from a want of thorough admixture of manure and soil. The manure is thrown on the land, and spread in large lumps; the plow perhaps but haif covers them, and forms only a mixture of clods and unbroken masses of manure, entirely unfited for the fine fibres of the roots.

One of the most useful practices is, to harrow the surface of the ground from eight to twelve times after the manure is spread, and before it is plowed in thus breaking it up as finely as possible, and mixing it with the finely pulverized soil. A farmer who has adopted this practice is of the opinion that manure is thus of more than double the value to the first crop, that it is in the usual way of plowing in. When it cannot be plowed immediately after exceeding, the harrowing mixes it and prevents evap oration into the air.—Calt. Almanace.

How to raise "Giant" Asparagus.

Mr. Editor .- There are sold in the seedstores several sorts of Asparagus, which claim to grow to unusual size, and produce giant stalks. I have bought and planted these some, and have found them not perceptibly different from the common old sort.

I want to tell you and your readers, if you will have little patience with me, how I grow common Asparagus, so that it will always rival any giant production, whether Brobdignag or Kentucky. Every one who has seen my beds, has begged me for the seed-thinking it a new sort-but I have pointed to the manure heap-(the farmer's best bank) and told them that the secret all lay there. The seed was only such as might be had in every garden.

About the 1st of November-as soon as the rost has well blackened the Asparagus tops-I take a scythe, and mow all close down to the surface of the bed; let it lie a day or two, then set fire to the heap of stalks; burn it to ashes, and spread the ashes over the surface of the bed.

clean, fresh stable manure, and add thereto half another stalk below the surface of the bed. a bushel of hen-dung; turning over and mixing the whole together, throughout. This makes a pretty powerful compost. I apply one such load to every twenty feet in length of my Asparagus beds, which are six feet wide. With a strong three ponged spud, or fork, I dig this dressing Col. S. Jacques' Remarks on the Prominent under. The whole is now left for the winter.

In the spring, as early as possible, I turn the top of the bed over lightly, once more. Now, as the Asparagus naturally grows on the side of the ocean, and loves salt water, I give it an annual supply of its favourite condiment. I cover the surface of the bed about a quarter of an inch thick with fine packed salt; it is not too much. my bed every year.

and then I am done. Market gardeners, and I believe a good many other people, cut Asparague as soon as the point of the shoot pushes an inch or two through the ground. They have then about four or six inches of what grows below. The latter looks white and tempting; I suppose people think that for the same reason that the white part of Celery is tender, the white part of Asparagus must be too. There is as much difference, as there is between a goose and a gander. It is as tough as a stick, and this is the reason why people, when it is boiled, always are forced to eat the tops and leave the bottom of the shoots on their plates.

My way is, never to cut any shoots of Asparagus below the surface of the ground. Cut it as soon as it has grown to proper height, say five or six inches above ground. The whole is then green, but it is all tender. Served with a little drawn butter, it will melt in your mouth. If your readers have any doubt of this, from having been in the habit, all their lives, of eating hard sticks of white Asparagns, only let them cut it both ways, and boil it on the same day, keeping the two lots I then go to my barn-yard; I take a load of separate, and my word for it, they will never cut

T. B. Yours, &c.

-Horticulturist.

Points of a Good Horse.

Points to be observed in the selection of a Useful Horse, more particularly for a Roadster.

I prefer a lightish head, nearly set to the neck; the neck rising promptly and strong from the shoulders and withers, and somewhat crowning or curving at the top, tapering to the head with a strong crest. Shoulders well laid in, spreading As well back, something like a shoulder of mutton. the spring rains come down, it gradually dissolves. Chest deep, and a little projecting. Withers ris-Every thing else, pig-weed, chick-weed, purslane, ing moderately high, and inclining well into the all refuse to grow on the top of my briny Aspar- back. If the withers are low and flat on the top. agus beds. But it would do your eyes good to the horse will be inclined to plunge to the ground, see the strong, stout, tender stalks of the vegetable and when fatigued will stumble or fall. Neither itself, pushing through the surface early in the must the withers rise too high, as he will then season. I do not at all stretch a point, when I appear as though on stilts; both extremes are say that they are often as large round as my hoe serious impediments to fine and safe action. Ribs handle, and as tender and succulent as any I ever should be well rounded our. Back strait and short, tasted. The same round of treatment is given to well coppeled, that is, the hips well thrown forward, forming a strong loin, and giving a long I have a word to say about cutting Asparagus, herer from the point of the hip to the hock-joint

of the hind leg. The horse should be a good length from the point of the shoulder to the exsense point of buttock. Dock strong, and well covered with hair. Close and snug immediately under the dock. The muscles on the inner part of the thighs should be full and well shut togethe. If there is a large cavity under the dock, the horse will be inclined to scour, and is probably only a door-yard horse.

The neck, head and body form a lever, resting on the fore legs as a futerum, the head being at the end of the lever. If the neck be very long and the head heavy, or if the neck be quite short, and the head short and light, either of these extremes very much effects the regular clips and action. The whole machine should be of good proportion.

The fore-arm is a very important lever as regards the safety of a roadster. The legs should be clean and free from blemish, and when in motion move true, and free from cutting or wabbling. The feet should be round and steep; heels broad; coronet and posterns of medium length. Bhank or cannon, short, broad and flat, showing the tendons or sinews. The knee large and well dropped; the arm above the knee long, and the muscles large and full. The top of the shoulder where matched to the withers, should not be so heavy loaded with muscles as to impede their action. No objections to the fore-feet moving pretty dose, but not so as to cut.

Much depends on the form of the hind leg and the power of that lever, as regards strength and speed. The shank, hock and thigh should be broad and flat, something like that of an ox.—

Rarmers Gazette.

Candles.—Prepare your wicks about half the usual size, wet with spirits of turpentine, put them into the sun until dry, then mould or dip your candles. Candles thus made last longer, and give a much clearer light. In fact they are nearly or quite equal to sperm, in clearness of light.

For a Pain in the Ear.—Take half a pint of claret and a quarter of a pint of wine-vinegar; put in sage, rue, or rosemary; let it boil up, put it into a new mug, with a bottle-mouth and hold your ear close, so that the steam may be sure to go in. As it cools, heat it again and again; and when the strength is pretty well wasted, wrap your head very warm and go into bed.

On the Choice of a Variety of Oats for Cultivation.—Strongly suspecting that the real value of different varieties of oat was unknown, and that weight by bushel was even less applicable to this grain than to wheat, I procured samples of nine sorts, carefully selected by Messis. Lawson, of Edinburgh. I have not had them compared chemically; I leave that to those great and wealthy bodies, associated for the ostensible purpose of conferring benefits on the farmer. I have followed a simple mechanical process, which any one may follow. The weight of each sort per bushel having been ascertained, the following table was constructed according to the results:

Weight per bushel of 16s.

Siberian Oat	-	-	-	- 45
Sandy -	-	-	-	- 52 1
Kıldrummie	•	-	•	- 42
Early Angus	-	-	-	- 42
Hopetoun	-	-	•	- 41
Potato -	_	-	•	- 413
Early Dyock	-	-	•	- 403
Late Angus	-	-	-	- 40 3
Black Tartari	an		-	- 39.

The useful part of the oat being the kernel, and it being probable that the proportion of the weight of the husk to that of the kernel might vary so much as to render the weight per bushel a deception, 100 parts by weight of each sort were taken, and the husk and kernel carefully separated. The following table shows the result:

In 100 parts by weight.

-	Husk.	Kernel
Sandy Oat -	- 21 -	- 79
Early Angus -	- 21 -	- 79
Late ditto -	- 213 -	- 78 <u>3</u>
Potato	- 22 -	- 78
Early Dyock -	- 25 -	- 75
Black Tartarian	- 25 -	- 73
Hopetoun -	- 26 -	- 74
Kıldrummie -	- 28 -	- 72
Siberian -	- 31 -	- 69

It is curious that the oat at the head of the first table should be at the bottom of the second. There may be as great difference among oats as among wheats in regard to their nutritive qualities, and until this shall have been ascertained by the chemist, we shall not know the real comparative values. In the meantime, there need be no hesitation in preferring the sandy oat over all others, as it is very early and very productive in grain and straw.—Gar. Chron.

The Operation of Lime as a Fertiliser.

up land. Whater ' subject, there is n ... of its almost universal two things. fertilising influence in such a case. Every body is aware of this fact, but that they are ignorant ed its explanation is evident, by the great abuse of nutriment for some years' crops; and, which is generally made of the practice. There practice over theory, guilty of that which to his then necessary application. more intelligent neighbour appears in the one case. newly broken up Grass lands.

All the fields on this farm, except those of shallow soil on the limestone rock, have been limed thus produced by growing each year on half the at the rate of upwards of 200 bushels per acre; land crops for consumption on the land, by selling this was done generally in the second and third only grain and batchermeat off your farm, and years after they were broken out of Grass, and cattle, sheep, and pigs, you will thus enrich year for the most part because the soil was aturally manure and increase its quantity. -Ag. Gas.

destitute of or deficient in calcarcous matter. In one of these fields a ridge was left unlimed, and Is now for the most part satisfactorily under- and that ridge last year (the field was in Wheat) stood. Its influence in certain cases and not in remained definitely marked out from the others others—the equality of its effect, though applied by its blank and sterile appearance in the midst abundantly here and scarcely there—the opinion of the heavy crop both of straw and grain which founded upon experience which prevails in some surrounded it. What made the appearance more district, that a large dose effect a permanent im- remarkable was the circumstance that, since the provement and needs not to be repeated; and application of the lime, now three years ago, the the idea, equally well founded, which obtains ploughing in that field had been altered-the elsewhere, that the annual application of a small direction of the furrows had been altered-so that quantity is necessary to the maintenance of fer- the unlimed ridge stretched across the others and ulity—have all been satisfactorily explained by embraced a considerable variety of soil—all of the theory, as it now stands of the mode in which them, from its appearance agreeing in this that not having been limed, either they were positively We wish more particularly to make a remark barren, or their fertility remained latent. Now er two on the application of lime to newly broken this was the first year that this appearance had y may assert on the been noticed. And we may draw from that fact

1. That newly-broken up land, though it be not manured with lime, contains sufficient store

2. That it is better for newly broken up land can be no doubt of the money value to the farmer to remain unlimed for two or three years except of a knowledge of agricultural it cory. From the under special circumstances, for its ready suffiuse and abuse of time as a manure we could bring ciently fertile, and the expense for some years is unnecessary: and the application would probably many illustrations of this. Whether the necessity cause an excessive fertility, if one may use that for its application arise from a faulty texture of expression, such as would injure grain crops by soil, which it would correct, or from the presence an excessive growth of straw. Now the special of noxious and compounds, which it would neut-ralise; whether it would not by inducing the for-remained long under stagnant water, the soil is mation of useful organic or morganic compounds then found to contain compounds of iron injurious in the soil, or simply and directly by supplying to vegetation which are decomposed by an applian absent element of food for plants, the merely under the it fluence of that application are induced practical man, who is ignorant of its theory, ne- to re-arrange themselves in forms no longer inexessarily makes in every case the same acreable jurious. And (2) in cases where, as an effect of spplication, and in thus very probably, at the very stag ant water, peat has been formed which, time that he may be boasting of the superiority of when drained, leaves a soil destitute of the mineral elements necessary to fertility; lime and clay are

The farmer independently of all theory on this se the most obvious parsimony, and in the other subject, will be perfectly safe in remembering that as the grossest extravagance. A fact noticed last where lime has not hitherto been applied, and where the land contains an excess of vegetable year on the farm from which we write, throws matter, or has long been injured by stagnant some light on correct practice in this particular, water, or is destituted naturally of calcareous especially as regards the application of time to matter, time, whatever the mode in which it was, issure to have a fertilising influence. Apply lime therefore, a year or two after breaking up your Glass lands, and then maintain the fertility

Agriculture as a Profession.

amongst manufacturers, and so little among agri-These thoughts have often occured to me since this the stronghold of the manufacturers. Among many other reasons the following two may be adcapital. Suppose, for instance, a person has two leaving nothing for improvements. sons to provide for, he determines that one shall them. If a f rmer himself, he is now on the look die one adjoining his own becomes vacant--- 450 acres; a little too large it is true for his capital, but such a sortunate circumstance; I shall have him near home, and such an opportunity seldoin occurs." Without any weightier reason than the above, off he starts to the landlord, secure the farm for his son and a lease of 21 years. His son now enters on his duties; he was born and bred on his father's form (rarely was from home further than the next market town), of course pursues the and I am greatly mistaken if he does not double came course of management that his father did; and treble the amount of interest for his capital his capital he finds barely sufficient merely to which he would otherwise obtain. It is as instock the farm; it is not of question to attempt consistent for the farmer to start business without any improvements this year. "The crops are liaving thus acquired a knowledge of the theory looking well." However, the disease attacks his and practice of his profession, as it would be for Potatoes, or the epidemic his sheep, and he must the merchant to embark his whole capital on an defer the draining till another year; and so he muddles on the best way he can, trusting to the ecasons.

man or buyer, taking a little of the responsibility on his shoulders, and thus gets acquainted with the Ho is this way enabled to meet, being acquainted with, the wishes of customers; is throroughly acquainted with the minutiæ of business, and has in which the improvements necessary to insure by this time acquired the necessary knowledge will stand on his hand; but knowing what is most illustrate the advantage of beginning to improve m demand, will sink his capital at once in its early in the term.—Ag. Gaz.

purchase, and will be enabled to turn over his capital several times in the course of the year. All What is the reason that there is so much wealth this is the effect of education. Now contrast the two: the farmer embarks in his concern without more knowledge than his father possessed before him, and thoroughly content. If his father be farming? and why should so many be made by not a farmer, he reques the supposed necessary manufacturers? What constitutes the difference, knowledge by living a year, or at most two, with These thoughts have often occured to me since, a friend who farms. The merchant begins early streamstances have changed my residence from learning how to invest his money to advantage, in life, and his first ten years is taken up with the country, and from the society of farmers, to and it would be strange if, after that time, be were not able to turn it to advantage. The farmer,s capital is at once absorbed with purchasing the stock absolutely necessary for a farm duced: education, and a proper application of which he has taken three times too large for him.

What is the remedy. Let the son, who is to become a merchant and the other a farmer. He be the farmer, he sent at as early an age to the Agricultural College (there will be more of these has laid by, we shall suppose, to start them in by-and-bye,) and let his first three or four years business 4000L, which he divides equally between | be taken up with being grounded in those sciences which bear on agriculture; let him become inout for the first vacant farm; we shall suppose timately acquainted with the theory and practice of agriculture as untolded in the lecture or seen in the field; let him put his hand to the various manual operations; get a knowledge in purchasing, rearing, and management of stock. After doing this, let him go abroad to the best farmed countries, see the operations carried out on a large scale; then, being now immately acquainted with everything bearing on the subject, let him take a farm in proportion to its capital, and start; article which he has not first ascertained will meet the views of his customers. The farmer rarely considers the amount of capital necessary; he How different is the case of the son intended for unhesitatingly enters on a farm three times the a merchant? "Tom," says the father," you must size of the extent of capital he possesses for its go and learn to be a merchant." Well? he takes proper management; and thus instead (as he him to Manchester; great care is taken to get shou'd it his capital were sufficient) of putting him into one of the principal houses; he stays the whole farm in the best possible position in there, say five or six years, going through all the the first year of his lease, he is contented to departments, seeing and taking a part in the whole dawdle on doing bit by bit every year; his crops system; he thus acquires buisness habits and gets continue by the same average quality, and he an insight into details. For the next two or three thus realises no more than a low interest for years he becomes a paid servant, acting as sales. his capital; whereas, it his arm had been in proportion to his capital, he might have, in the first two years, got all his improvements effected, eastomers, &c. He will next, perhaps, be induced and during the rest of the term be in the receipt to go abroad as agent, and in this way he becomes of good crops paying him a high per centage for acquainted with the tone of the foreign markets. his capital. I would here remark that the capense of farming well cultivated and improved land is no more than that necessary to farm land good crops have not been carried out; so that the where and how he can invest his capital to most expenses in both cases are similar, while the advantage. He will not purchase an article which returns are in many cases double. This will

A Chapter on Bread Making.

Wheat Bread of potato yeast.—This is made like bread made with home-brewed yeast, except that you may put in almost any quantity of the potato yeast without injury. Those who use potato yeast like it much better than any other. The only objection to it is, that in summer it must be made often, as it will not keep sweet long. But is very easily renewed. The advantage is, that it rises quick, and nover gives the sharp and peculiar taste so often imparted to bread and cake, by all yeast made with hops.

Potato Bread.—Rub a dozen preled boiled potatoes through a very coarse sieve, and mix with them twice the quantity of flour, mixing very thoroughly. Put in a coffee cup, full of homebrewed, or of potato yeast, or half as much distillery yeast; also, a tea-spoonful of salt. Add whatever water may be needed to make a dough as stiff as for common flour bread.

An ounce or two of butter rubbed into: flour, and an egg beat and put into the yeast, a i you can have fine rolls or warm cakes for bre. fast.

This kind of bread is very moist, and keeps ell.

Eastern brown bread .- One quart of rye.

Two quarts of Indian meal; if fresh and sweet, a half, do not scald it—if not, scald it.

Wa

Half a tea cup of molasses.

Two tea spoons full of salt.

One tea spoon full of saleratus.

A tea cup of home-brewed yeast, or half as much distillery yeast.

Make it as suff as can be stitted with a spoon with warm water. Let it rise from night till morning. Then put it in a large deep pan, and smooth the top with the hand dipped in cold water, and let it stand a while. Bake five or six hours. If put in late in the day, let it remain all night in the oven.

Rye bread.—A quart of water and as much milk.

Two tea spoons full of salt, and a tea cup of flour till stiff enough to roll.

Indian meal.

Let it rise again, and whe

A tea cup full of home-brewed yeast, or half as much distillery yeast.

Make it as stiff as wheat bread with tye flour.

A tea spoon full of salt.

A tea cup of home-brewed, or half as much distillery yeast.

Milk to make it so as to mould like wheat

Rice bread-No. 2.—Three halt pints of ground rice.

Two tea spoons full (not heaping) Calt.

Two gills of home-brewed yeast.

Three quarts of milk, or milk and water. Mix the rice with cold milk and water to a thin gruel, and boil it three minutes. Then stir in wheat slour till as stiff as can be stirred with a spoon. When blood warm, add the yeast. This keeps moist longer than No. 1.

Bread of unbolted wheat, or Graham bread.-Three pints of warm water.

One tea cup full of Indian meal, and one of wheat flour.

Three great spoons full of molasses, or a tea cup of brown sugar.

One tea spoon full of salt, and one tea spoon full of saleratus, dissolved in a little hot water.

One tea cup of yeast.

Mix the above und stir in enough unbolted wheat flour to make it as stiff as you can work with a spoon. Some put in enough to mould it to loaves. Try both. If made with home-brewed yeast, put it to rise over night. If with distillery yeast, make it in the morning, and bake when light.

In loaves the ordinary size, bake one hour and a half.

Walnut Hill's brown bread.—One quart of sour milk, and one tea spoon tull of salt.

One tea spoon fall of pulverized saleratus, and one tea cup of molasses, put into the milk.

Thicken with unbolted wheat flour and bake immediately, and you have first rate bread, with very little trouble.

French Rolls, or Twists -One quart of lukewarm milk.

One tea spoon full of salt.

A large tea cup of home-brewed yeast, or half as much distillery yeast.

Flour enough to make a stiff batter.

Set it to rise, and when very light, work in one legg and two spoons full of butter, and knead in flour till stiff enough to roll.

Let it rise again, and when very light, roll out, cut in stripe, and braid it. Bake thirty minutes in buttered tins.

Raised Biscuit.—Rub half a pound of butter into a pound of flour.

One beaten egg.

A tea spoon full of salt.

Two great tea spoons full of distillery years, or twice as much home-brewed. Wet it up with enough warm milk to make a soft dough, and then work in half a pound of butter. Wheat light, mould it into round cakes, or roll it out and cut it with a tumbler.

Very Nice Rusk -One pint of milk.

One coffee cup of yeast; (potato is best.) Four eggs.

Plour enough to make it as thick as you can stir with a spoon.

Let it rise till very light, but be sure it is not sour: if it is, work in half a tea spoon full of saleratus, dissolved in a wine glass of warm water.

When thus light, work together three quarters of a pound of sugar and nine ounces of butter; add more flour. if needed, to make it stiff enough to mould. Let it rise again, and when very light, mould it into small cakes. Bake fitteen minutes in a quick oven, and after taking it cut, mix a little milk and sugar, and brush over the rusk while hot, with a small swab of linen tied to a stick, and dry it in the oven. When you have weighed these proportions once, then measure the quantity, so as to save the trouble of weighing afterward. Write the measure in your receipt book, lest you forget.

Potato Biscuit.—Twelve pared potatoes, boiled soft and mashed line, and two tea spoons full of salt.

Mix with potatoes milk, add half a tea cup of yeast, and flour enough to mould them into small eskes, then let them stand in buttered pans fitteen minutes before baking.

Crackers.—One quart of flour, with two ounces of butter rubbed in.

One ten spoon full of saleratus in a wine glass of warm water.

Half a tea spoonful of sait, and milk enough to roll it out.

Beat it half an hour with a pestel, cut it in thin round cakes, prick them, and set them in the oven when other things are taken out. Let them take till crisp.

Hard Biscuit .- One quart of flour, and half a tea spoonful of salt.

Four great spoonsful of butter, rubbed into twothirds of the flour.

Wet it up with milk till a dough; roll it out again and again, aprinkling on the reserved flour till all is used.—Cut into round cakes, and bake in a quick oven on buttered time.

Sour Milk Biscuit .- A pint and a half of sour milk, or battermilk.

Two tea spoons full of salt.

Two tea spoons full of saleratus dissolved in four great spoons full of hot water.

Mix the milk in flour till nearly stiff enough to roll, then put in the saleratus, and add more flour. Mould up quickly, and bake immediately.

Shortening for raised biscuit or cake should aliways be worked in after it is wet up.

A good way to use Sour Bread.—When a batch of bread is sour, let it stand till very light and use it to make biscuit for tea or break-fast, thus.

Work into a portion of it, sale; atus dissolved in warm water, enough to sweeten it, and a little shortening, and mould it into small biscaits, bake it, and it is uncommonly good. It is so much liked, that some persons allow bread to turn soor for the purpose. Bread can be kept on hand for this use any length of time.

For a violent Colic Pain in the Side,—Mix an equal quantity of spirits of lavender, spirit of sal-ammoniac, add Hungary-watery; rub it in with a hot hand, and lay a flannel on as hot as you can bear it. Repeat this often.

For a Consumptive Cough.-Take half a pound of double-refined sugar, finely beat and sifted, wet this with orange-flower water, and hoil it up to a candy height; then stir in an ounce of cassia-earth finely powdered, and use it as with any other candy.

To Remove Flatulency after Eating.—Take a spoonful of the following mixture in a little water as soon after eating as convenient; Magnesis, 3 drachms; carbonute of soda, 2 drachms, salvolatile, 4 drachms; tose water, 7 drachms. Mix, and well shake the bottle before taking a dose.

To Preserve Flowers in Salt.—Commen salt, 3 pounds; flowers, 10 gallons. Beat them to a paste and preserve it in wide-mouthed jars or hottles. This plan furnishes the perfumer with flowers at any season of the year. The scent is not only much improved, but the flowers rendered more suitable for the purposes of distillation.

Ointment for the Foot Rot.—Lard, 1 pound; turpentine, 1 pound; tallow, 1 pound; sulphate of copper (powered,) 1 pound; rape oil, 1 pound; black resin, 1 pound. Melt, and mix well.

To the Subscribers of the Cultivator.

This number completes the current volume of the British American Cultivator, and in conformity with the system of advance payments, the contract we entered into at the commencement of the year. We may not have pleased the whole of the patrons of the work, but we flatter ourselves that the experience we have had, and the knowledge we possess of the business, will enable us to conduct the forthcoming volume in a manner that will give unlimited satisfaction to all who may patronise it. The various enterprises we are engaged in, make the task of catering for the public a somewhat difficult one, but the cause of agriculture and manufactures are of so much importance, in our estimation, that we are willing to make any amount of sacrifice to promote these great interests in the Province. The difficulties that we have had to contend with in establishing the Cultivator upon a sound footing, have been by perseverance surmounted, so that we have now the satisfaction of stating, that the work before us appears pleasant, and shall in future ever be considered so by us, so long as we have the confidence and support of the two great classes whose interests we profess to advocate.

To do justice to the enterprise, we want an extensive patronage. By referring to the prospectus of the forthcoming volume, it will be seen that if our patrons should exert themselves to their utmost, and obtain for us a circulation of 20,000 copies of the B. A. Cultivator, that we would in return give them a bonus of a Cana-DIAN WEEKLY, THE SIZE OF ONE OF THE LARGEST CANADIAN NEWSPAPERS, under the title of " The Provincial Advertiser." In point of original matter and general ability, we do not intend the Advertiser to be second in comparison to any newspaper in the Province of Canada. It shall be. as have elsewhere stated, an unflinching friend of the producing classes, and shall especially be so to the Manufacturer and Emigrant .-If our numerous friends and supporters through the country really have a desire to put our ability for conducting the Cultivator and Advertiser to the test, the only thing they have to do is, to put their shoulder to the wheel, and canvas manfully for the 20,000 subscribers. In the remote rownship of Erin a few friends resolved at the last annual township meeting, that they would bring the claims that our Journal had upo the attention of the farmer, before the no ice of the mest- an e-lightened public.

ng, and by a little exertion on the part of a few spirited individuals, upwards of SIXTY subscribers were procured on the spot. We hope our friends through the country will take example from the 'ownship alluded to, and at the general town meeting in the month of January next, will remember to go prepared to solicit subscriptions for the work, from all classes of the community.

The subjects discussed in our columns are of the utmost importance to all; and where is there a man, who, if solicited in a polite manner to become a member of an Agricultural Society, would not pay the paltry subscription of Five. Suillings, for which he would obtain all the benefits of the Society, and an Agricultural Magazine and Newspaper in the bargain.

The Township of Whitby Society, the present year, obtained as large a share of the Government money as all the other Township Societies in the District put together. This would not have been the case had that society not adopted the system of supplying each of its members with a free copy of the Cultivator, and also secured the voluntary services of active men to canvas every concession and side line of the township for members. If the other townships in Canada West would adopt the system practiced by the two above-mentioned, a much greater circulation would be secured than what we require to warrant us in issuing the Advertiser weekly.

The patrons of our work may with some reason complain of the want of proper embellishments; but to satisfy them that the forthcoming volume will contain a rich display of valuable engravings, we would mention, that we have entered into a contract with Mr. Lowe, our woodengraver, that we shall employ him to execute work to the value of £50, which will give. on an average, about five engravings to each number. We shall have in the Agricultural Warehouse most of the improvements in Agricultural and Mechanical Machinery, and everything worthy of notice shall appear illustrated in the Cultivator.

We wish our friends to understand, that we are determ ned to make both the Cultivator and Advertiser popular works, and in which they will find a store of valuable information rarely to be met with. In short, it is our full determination to advance nothing that cannot be most advantageously practiced, and to make our Journals worthy of the easeem and patronage of an e-lightened public.

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