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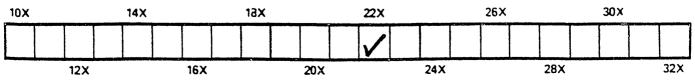
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CANADIAN AGRICULTURIST,

AND JOURNAL OF TRANSACTIONS

of the

BOARD OF AGRICULTURE, AGRICULTURAL ASSOCIATION, &c.

VOL. VIII.

TORONTO, AUGUST, 1855.

No. 8.

Agriculture, Ac.

TRIAL OF MOWING MACHINES.

As many of the Mowing and Reaping machines mentio ed below have been or may soon be introduced into Canada we copy the following account of a trial of their qualities from the Rochester Rural New Y elser. We have this year tried Manny's Machine, which took these could prize, and also the Forbush machine. Both did excellent work, but we give the preference on account of its adjustible arrangement to Manny's. The one used by us was made in Canada by Messis Massey & Co., Newcastle:

In accord nce with previous announcement, a trial of Mowin: Machines was had. June 27t, on the faim of Judge Buel, near this city, under the durce tion of the Monroe C. Ag Society. The weather was favorable and there was a very large attendance of faimers and others—almost every county in Western ew York being represented We also not ced sev-ral farmers from Oswego, Jefferson and other dist nt sections of the State. Eight machine- of six different patents, were entered in the following order:

1 Burrall's combined Mower and Reaper, by O. A. Swau, of Geneva.

2. Ketchum's Mower, by J. P Ross, Ogden.

3. Manny's combined Mower and Reaper, with Wood's improvement, by J. C. Ceoper, Adams, Jefferson Co.

4. Wanny's Mower, with Wood's improvement, by Mr Blackmer, Wheatland.

5 Wheeler's combined Mower and Reaper, by Shoulds & Mosher, Polar Ridge, New York.

6. Ketchum's combined Mower and Reaper, by J. Rapalje & Co, Rochester.

7 Forbush's combined Reaper and Mower, by E. D. Hallock, Rochester.

S. Russell's Mower, by R. H. Pease, Albany.

Though the ground was uneven, and grass light, several of the machines did good work. K. tchum's, and Manny's with Wood's improvement, probably at-

tracted the most attention and comme dation from spectators, though Forbush's, Burral's and Wheeler's machine cut well and had many admirers. The contest excited great interest from the large concourse present and it was evident that the "committee of the whole," were divided in opinion as to the merits of the respective machines. Each of the five machines above named, in particular, had its admirrers among the practical men on the ground—and every man could give a reason for his preference. Russel's machine was not, apparently, in proper order to work on rough, uneven ground. A large number of michines, of different patents, were ordered during and at the close of the trial, and before the decision of the Committee was announced. Indeed, we have little doubt that, under favorable auspic's with smooth ground and good grass—nearly, if not all, the machines exhibited would do fair work.

REPORT OF THE COMMITTEE.

The trial of Mowing Machines, under the direction of the Monroe County Agricu tural society, took place on the farm of Judge Buel near this city, on the 27th inst. The occasion called out a very large collection of farmers, manufacturers, and others who were curious to witness the scene of strife between the various parties from different parts of the state, who appeared on the ground to test the merits of their several machines. The Committee appointed to judge of the merits of the work done, found it v.ry difficult to arrive at just conclusions as to the work performed, and the merit due to the different machines on trial, each probably possessing some adyantages pecu iar to itself, and wishever decision the Committee have arrived at, the great and important question is dec ded by the intelligent farmers who witnessed the contest.

There were ei. bt machines entered for competition 'he field was bad for working them, the surface very u even and stony, and the grass this and light. The work performed was not a fair test of the value of mowing machines. yet, with some exceptions, the work was satisfactory, and proved the great value of this immense labor saving invention.

The Committee were united in the opinion that the Ketchum a achine, and the Ma.ny with Wood's improvement, were the best on the ground; but were divided in opinion as to which of these two was the

best, but a majority finally decided in favor of the former, believing that that machine cut the closest to the ground, while the latter was the easiest for the teom and for adjustment over uneven and stony sur faces.

The first premium the Committee awarded to Ketchun's machine, and the second premium to Manuy's machine, with Wood's improvement.

The Committee had not the time to examine minutery the michanical construction of the different nechines, or their liability 10 get out of order, both important points upon which the Committee expressed no opinion.

Ketchum's machine was entered by James P. Ross, of Ogden, and cost \$110, and another by John Rap-Blje & Co, a combined Reaper and Mower, costing \$125.

The Manny machine with Wood's improvement. entered by Mr. Blackmer. of Whilatland, cost \$110 The same machine with reaper combined, entered by J. C. Cooper cost \$125.

The thild premium is awarded to Wheeler's ma-chine, of Cayuga Co. costing \$125. This machine ont with shears and performed good work, having an Edjustable beam, and so arranged as to have sittle or uo side draught,

Forbush's mechine, entered by E. D. Hallock, of Rochester, is a combined Reap r and Mower, and cut eq ally well ; did not leave the grass evenly spread. This machine cost \$110, and with the reaper \$130.

The other machines upon the ground were most of them so carly alike in the character of the work done, that any further discrimination or expression of opinion of their respective merits is perhaps uncalled for.

> F. P. ROOT. BENJ. SMITH, JAMES WARING, WILLIAM BROWN, ALEX. KELSEY, Committee.

Rochester, June 27, 1855.

THE APPROACHING PROVINCIAL EXHIBITION.

The readers of this Journal are doubtless already aware that the next exhibition of the Provincial Association will be held at Cobourg, October 9, 10, 11 and 12. A convenient and beautiful site has been selected for holding the Fair, (the same as on a former occasion) and every thing at present seems to indicate a successful result. The contract for fencing crecting buildings &c., h s been taken and prepara. ions co menced. An efficient Local Committee thas for some time been actively engaged in the important work of preparation. The following are the names of the Commi tee of Cobourg. Sherift Ruttan, Chairman; Asa A. Burnham, Treasurer; Henry Jone Ruttan, Secretary; Sir Edward Poore, Bart, John Wade, D. E. Boulton, Alex Alcorn, G. E. Castle, Thos E re, Walter Riddell, R. Wade, Junr., C. H. Morgan, O. W. Powell, P. R. Wright, F. Burrell, W. Weller. We call the attention of our readers to the following

RULES AND REGULATIONS.

1. The payment of 5s, and upwards constitutes a person a member of the Agricultural Association of Upper Canada for one year; and £2 10s tor life, when given for that specific object, and not as a contribution to the local funds.

2. No one but a member will be allowed to compete for prizes except in classes 30, 32, 34 and 35.

3. All Eutries must be made on printed forms, which may be obtained of the Secretaries of Agricultural Societies, free of charge. These torms are to be filled up and signed by the exhibitor, et c osing a dollar for membership, and sent to the Scre-tary of the As-ociation. Board of Agriculture, Toronto, on or b-fore "aturday S pt 22nd, after which t me a charge of 5s will be imposed on each article.

Exhibitors in the Horticultural and Ladios D. partment may enter articles up to In sday Ev hing, Oct. 9th, when the Books will be finally closed.

Blood Hoises and Thorough-bred Cattle must be entered and have their full Pedigr e properly attested and sent to the Secretary in Toronto, not later than Saturday, Sept. 22nd No animals will be allowed to compete as pure breed, unless they possess regular Stud and Herd Book pedigrees, or satisfactory eviderce be produced that they are directly descended from such stock.

4. Badges from the Treasurer's Office will be furnished each member, which will admit himself on y, free to ev ry department of the Exhibition, during the Stow. Life members admitted free.

5. Tickets of a mi-sion to those who are not membels, 74d each time of admission Carrages, inc u-ding drivers, 5s; passengers to pay 74d each. Horsemen to pay 1s 3d each admission.

6 Every article exhibited for c mpetition must be the growth, produce, or manufacture of Canada, except C asses 34 and 35. Live Sto k for breeding must be the property of persons residing in Canada. All premiums for acticles, except Stock, are to be awarded to the manufacturers or producers only.

7. Discritionary Premiums will be awarded for such articles as may be considered worthy by the Judges, although not enumerated in the L st, and the Directors will determine the amount of premium.

8. In the absence of competition in any of the Classes, or if the Stock or articles exhibited be of inferior quality, the Judges will excreise their discretion as to the value of the premiums they recommend.

9. The Judges, Competitors, and Officers of the Association only will be permitted to entr the Show Grounds until 12 o'clock, on Wednesday Oct. 10 h, at which hour Members will be admitted. Non-members will be admitted on Thursday and Friday morhings after 8 o'clock.

10. No Articles or Stock exhibited will be allowed to be removed from the grounds, til the awards are made, without the permission of the President, under the penalty of losing the premiums. An Auctioneer will be on the spot after the premiums are announ-ced and every facility afforded for the transaction of business.

11. Delegates, Judges and Members of the Press, are requested and expected to report themselves as the Secretary's Office immediately on their arrival.

12. The Judges are to meet at the Secretary's office on the Grounds on Wednesday morning, at 9

13. Arrangements will be made for Agricultural Lectures or Discussions during the evenings of Wednesday and Thursday on the Show week.

14. While the Directors will take every possible precaution under the circumstances, to ensure the safety of articles sent to the exhibition, yet they wish it to be distinctly understood that the owners of the articles must themselves take the risk of exhibiting them; and that should any article be accidentally in-jured lost or storen, the Directors will give all the assistance in their power towards the recovery of the same, but will not make any payment for the value thereof.

15. The Treasurer will be prepared to commence paying the premiums immediately after the successful competitors have been declared, and parties who shall have prizes awarded them are particularly requested to apply for them before leaving Cobourg, or leave a written order with some person to receive th-m, stating the articles for which prizes are claimed.

The Local Committee will make arrangements with Steamboat and Railway proprietors for carrying the passenge s at reduced rates; also with the Hotel and Bourding house Krepers, for accommodating visitors at their ordinary fixed charges. Full particulars will be published hereafter in Show Bills.

Short Horn Stock in the County of Wellington.

We gladly insert the subjoined extract from a recent member of the Guelph Herald. That country has h-d from the first a goodly number of intelligent and enterprising settlers from the mother country. We shall always remember with pleasure attending a Farmer's Dinner at Guelph, a few years since, when we were s ruck with the appearance and spirit of the company, so characteristically British. We could imagine ourselves again in merrie England, and blessed our stars that we were in a country so marvellously 1 ke it. At that time it would have been preposterous to have mooted even the probability of Guelph being a place for holding our great Provincial Exhibition, as it could be reached only by ordinary roads. But how soon do railways change the state of things! We are quite sure that whenever the Association may decide on holding the annual Show in Guelph, the merchants and inhabitants of that town, and the farmers and mechanics of the County of Welington and adjoining districts, will nob'y sustain it.

The County of Wellington has for several years occupied a prominent place among those districts of the Province that boast the possession of superior agricultural stock, for which honorable position she is chiefly indebted to the energy and ability of a number of skilful and enterplising proprietors in the townships adjoining her capital, by seconded by the local agricultural sociatios. We have frequently had the pleasure of chronicling the arrival of supe rior animals selected from the herds and flocks of first class English breaders, and the sale of their pro- chinery. A reaping machine will save the geny at what would even in the "old country," he litself in one season. - Scient-fic American.

o'clock precisely, to make arrangements for entering reckoned high prices. Recently our fellow towns-immed ately upon their duties. man Mr. F. W. Stone, has acquired no small distinction as an importer and breeder of Short Horns,' ' and three animals shown by him at the County Show in October last although only imported the previous week, and consequently in poor condition, a tracted general admiration, and were regarded by our best judges as I kely to prove essentially beneficial in im-proving the stock of the vicinity. We are gratified to learn, as evidence that the value of superior stock is fully apprecia ed in the neighborhood, and that our judiciously enterprising farmers may safely cal-culate on a fair remumeration for the money and labor expended in breeding first-class animals, that Mr. Stone has sold a beifer calf, four months old, the produce of a heifer imported by him last fall, to Mr John Hes, of Farnham Plans, Puslinch, for \$500, the largest sum, so far as we are aware, ever paid for a calf in the Province. We have not seen this for a calf in the Province "golden calf," but we feel persuaded it must be a beauty, for Mr Iles is reckoned one of the best judges of stock in the county.

> Mr Stone's herd, which may now, as regards quality, compare favorably with any in the Province. comprising over twenty Short Horns of the very hignest class, kept in first rate condition, is a credit to himself, to his manager, and to the county. In addition to four splendid heifers imported by him this spring, he has at present en route for Canada about a core of superior Cotswold She p, to be followed by a further importation of carefully selected Short Horns. The introduction of so much pure and tresh blood, combined with Mr Stone's very liberal arrangements for the accommodation of his neighbors, must obviously be largely beneficial to the locality.

> While on the subject, we are induced to ask whether the Directors of the Provincial Agricultural Association are not likely soon to direct their attention to Guelph as an admirable site for one of their early exhibitions? Our two lines of railroad n w on the eve of completion, will render the locality A I as regards transit accommodation. We are situated in the very contre of the finest and best cultivated district Canada can boast, possessing some of the best farmers and best conducted agricultural societies in the Province; and, from the astonish ng rapidity with which the town is increasing, we will soon be able to accomodate a few thousand guests within new stone walls. The Town and County Mullcipalities, we are persuaded, would subscribe handsomely to the prize list; the civizens would make up a heavy purse; and our farmers, who are a present actually overburdened with cash they don't know what to do with, would astonish the Province by their liberality for such a purpose. We trust the Hon. A. Fergusson, Mr. Harland and o her friends of "the centre of creation" at the Board of Agriculture, will exert themselves in this matter; we dare pledge ourself they will be well supported by the county.

> REAPING MACHINES .- We have been informed by a manufacturer of agricultural implements, one who is excellent authority, that between lifteen and sixteen thousand reaping machines will be manufactured and sold this year in our country. The demand is so great that manufacturers cannot make them fast enough for their orders. This affords evidence of agricultural prosperity, as the cost of these machines will amount to nearly two million of dollars. Our farmers exhibit wisdom in using and patronizing machinery. A reaping machine will save the price of

SCOTTISH AGRICULTURAL WORTHY.

GLENTHORN. (NEAR COBOURG), June 28, 1855.

DEAR SIR,-Permit me to request the favor of you to give the inclosed a place in the Agriculturist. -Mr. Brodie was an old neighbour and a much esteemed friend of mine, as well as the other persons mentioned, who were either relatives or intimate friends of mine, I am sorry to say they are all gone. There may be Scotchmen settled in Canada who may feel interested and be glad to read the inclosed

I am, Sir Yours faithfully,

WM BROWN.

To Professor Buckland, Toronto.

It is impossible to estimate too highly the obligations the agriculture of Scotland owes to those in telligent and persevering men who at the comencemento' the present century occu ied as tenants some of the tarms of East Lothian One-we believe the last of the e Mr. John Brodie. Abbeymains, has la ely did at the ripe age of 75. Eminent as a practical farmer, Mr. Brodie earned a wider fame by the evidence he gave before the s lect committee of the House of Commons, appointed in 1826, to inquire into the then prevalent complaints of agricultural distriss. The committee, as is well known, made no rep it, but the evidence taken sealed the fate of the Com Law, to ough for ten years later that monstrous injustice remained on our Statute Book.

Mr. Brod e's evide ce. wish that of Mr. Andrew Howden and Mr Robert Hope furnished some of the most decisive arguments urged against the Corn Laws, and demonstrated that the discress complained of was due to an erroneous system of husband y which the Coin Law had encouraged and sirved to perpetuate. Mr. Brodie's evidence seems to have given offence to the landlord of his farm of Amis-field Mains; who refused to renew his lease, though Mr. Brodie had continued to improve by draining and manuring up to the close of his term in the full expectation of a renewal When the lease expired in 1839 the farm was let to another tenant, the landlord profiting of course by Mr. Brodie's improve-ments. Of this, no doubt the law permitted, but the effect ou the tenantry of the district was to create feelings of distrust and dissatisfaction.

We take from a memoir contained in the North B ilish Agriculturist, a few passages of general in-terest The writer says :

"Of all the great men who appeared in East Lothian towards the close of the last and beginning of the present century, and who shed a lustre over its agriculture none was more conspicuous or eminently instrumental i advancing agriculture than John Brodie. Ente ing the arena after Andrew Meikle had invented the thrashing machine-Lee of Skaetraw had introduced the Swedish turnip, and, with Remia of Phantasie, had adopted the four course rotation, John Brodie along with Brown of Markle, Adam Bogue of Liupium, Robert Hope of Fenton Barns, and James Reid of Diem followed out ev ry improvement in prac ice, and established on systema ic hasis the agriculture of that country, which has influenced and is stil influencing, the while character of Scottish husbaudry.

In the year 1801 he entered on the occupancy of the farm of Fenton. on a lease of twenty one years, at a rent of $\pounds 1,050$, and which rent be c ntinued to

not prove a lucrative one, as the farm at cutry was in very bad order, and it was only towards the close of the lease that full crops were raised. This was effected principally by importing annually at Aberlady several cargoes of manue from Leith, a vessel being owned by him for the purpose. The quantity of manure so brought to the farm was at the time deemed extraordinary.

In 1820 he took a lease for nineteen years of Amisfield Maine Farm, near Haddington, to which he removed for the greates convenience of educating When the lease of Fenton Farm expired, his family. the proprietor refused to let it to a non-resident terant.

In 1826, he took a lease of nineteen years of Abbeymeins which was renewed by the proprie or Lord Blantyre. The change which a course of high cu tivation can effect on the most unpromising soils, especially where the climate is favourable, has been nowhere more strikingly displayed than at Abby-mains. Those who were familiar wit this farm prior to 1830, and, who remember the cold, thin, clay fields of the upper part of the farm, and the weeping and weak looking soils of those fields, through which the public road between Haddington and Daubar passes, know what has been effected. Those not so acquainted with the farm at that time can form a very inadequate idea of what has been accomplished. The crops from being among the lowest average per acte in the county have for several years been among the highest, and the produce in grain and in roots equal to any farm in the same space in the Unit d King-dom. This change his been produced by the skill and capital of Mr. Brodie, a portion of the latter being however, borne by the landlords by contract on entry .- The outlay in permanent improvements, d aining, sub oiling, &c, and in manures, has certainly exceeded the original value of the feesimple of the soil. That the occupant reap d and his friends will continue to reap the benefit of such improvements, is unquestionable; but had Mr. Brodie been equally unfor unate, as to a renewal of the lease, in this as in the previous farms, much of his skill, enterprise, and capital would have been expended upon improvements, the benefits of which others would mainly have reaped. In Am sheld Mains, he was engaged in extensive draining operations, up to the second rear of the expiry of h s lease. The increased value imparted to the soil during his occupancy, both of Amisticld and Abbeymains, would of itself have proved a full return for his exertions, had he purchased the land previous to farming it, but farming the soil owned by others, neither skill, capital, nor honourable bearing protected him from the common fate of occupying tenants, his very position as an improving farmer being rather a disadvantage than otherwise.

Mr. Brodie's peculi_r merits as an agriculturist are thus stated :-

"He was rather a pionces than a follower, although with too sound a judgment to pursue novely for its own sake. As an improver and as a cultivator, the same characteristic of patient perseverance was exhibited. Once resolved to undertake any improvement, he went straightforward undaunted by obstacles, and keeping steadily in view the object aimed at in the execution of any undertaking, whether in completing the draining of a field, or in preparing for, or in sowing a crop, patience in waiting for a suitable tid, and dilligent perseverance when the weather was suitable, were alike the subject of re mark. Scrupulously attentive to eradicating all pay till the close of the lease. The occupancy did | weeds, such as couch and knot grass, on their first

Keeping the land free from weeds and frequent ap-plications in moderate doses of fertilisers, such as farm, town and portable manures, were the leading fortunes of his greating. His minute attention to the features of his practice His minute attention to the details in the field exercised no considerable influence in improvin the practice of those farmers, who going to and from the weekly market at Haddington, had the opportunity of witnessing the operations in progress, and strangers from a distance who came to examine into the advanced practice of the county invar ably formed a highly favorable opinion of his general management. As a breeder and a feeder of stock, he was pre-emenint. Those who are familiar with the re-mium lists of the Highland and East Lothian Agricultural Societies, must have observed that no name occurs so of ten as a successful competitor as that of John Brodie, while his essays on various subjects are recorded in their transactions, and are valuable expositions of his practice, particular-ly as a successful leader of stock. The number of premiums taken by Mr. Brodie was certainly greater than that of any other farmer in Scotland."—London Economist.

and the second sec

GROW YOUR OWN CLOVER SEED.

We are acquainted with intelligent practical farmers in West-rn New York, who believe it profitable to seed down all their wheat and barley land every year with red clover. A well known and successful cultivator of light land. near Rochester, has abandoned altogether, the use of the summer failow, depending on corn and other hoe crops to enable him to keep the land cleau. After corn he frequently sows bariey, seeding it down with 10 lbs. of clover per acre, and, in the fall, after the barley has been harvested, the clover affords good pasture for sheep or cattle, or, if feed is abundant, it is allowed to grow uncrop ed, and is turned under, the same fall, and the field sown with wheat on one furrow He is satisfied that the value of the feed in the fall and the fertilizing effect the clover roots, &c., have on the subsequent wheat crop, more than pay the cost of the clover seed. Others are convinced that, where corn is to follow, it is highly profitable to seed down a wheat or barley crop, with clover, and allow it to get a good start the next spring before the land is plowed up for the corn crop. The clover, also, in this case iurvishes much fertilizing matter, and the practice has the additional advantage of furnishing green food for the grubs and worms till the corn has attained a good start, and is capable of sustaining their depredations without material injury.

It is possible that, under such a system, the land may in time become exhausted—not of potash, soda, or lime or of sulphuric or phosphoric acid, but of some peculiar combinations of these or other elements of plauts which, as yet, neither the chemist in his laboratory, nor the experimenter in the field hasbeen able to discover. In other words, our fields, like the light soils of England under the four course system of rotation, may become "clover sick," and refuse to grow red clover oftener than suce in eight or twelve years. But, at present, we apprchend no such a result. We believe clover sickness is unknown in this cou try, and should be glad to hear from our correspondents on this point. Our object is rather to commend the extensive cultivation of clover, and to recommend the systems alluded to, or a modification of them, to those who have hitherto seeded down, at most, only a portion of their wheat or barley crop with clover. Be assured that, on all farms where | prolonged by giving them a little shade at mid day.

apped ance, he spired no expense to effect this, wheat.cord, har ey, oats and other c real grasses Reiping the land free from weeds and frequent apping are extensively cultivated, it will abundantly pay to grow as much clover as po-sible.

Why clover, peas beans, tares, sainfoinilupins and other leguminous pla is are so advantageous in rota-tion with wheat, bar cy, oats, Indian corn and other graineous plants, we will not now stop to inquire. The fact that they are so cannot be denied, and whe-ther it is owing to their requiring a different proportion of mineral substances, or whether, principally to the fact that they do not require for th ir growth more ammonia than they contain, while the wheat, corp, and o her plants of the same order destroy large quantities of this expensive fert lizer, is a question which it is not necessary to decide before we can act upon the teachings of experience.

In order to induce farmers to sow more clover, it is very important that they be persuaded to grow their own clover seed; for it will be admitted that he who has to pay \$5 to \$8 per bushel to the city merchant or seedsman will be much more sparing of clover seed than the farmer who raises an abundance of his own. Fortunately this climate is not only well suited to the growth of large crops of clover for fodder, or for turning under as a fertilizer, but it is also well adapted for the production of large crops of excellent clover seed. Why, then, is it so high? why is it that every farmer, does not raise at least as much as he needs for his own use? There is certainly no more necessity for buying clover seed, than there is for buying seed wheat, corn, barley or oats.

If not already done, let every farmer select a few acres of his cleanest c over, cut it as early as possib e, and then allow it to go to seed. If the land is in good heart, and cleau, nothing more is required ; if poor, 150 to 200 lbs. of good Peruvian guano per acre sown broadcast as soon as the first crop is removed, during showery weather, will be found a beneficial, and we have little doubt a profitable ap-plication. Plaster increases the foliage of the plants, but, it is said, retards the ripening of the seed. Four bushels of clean seed per acre is a fair, average crop ; but eight bushels may easily be grown by cutting the first crop early, or by eating it off by sheep till the middle of May or first of June. If the land is not rich enough it shou d be well manured, early in the spring or, still better in the fall, with well rotted barn yard dung. It is important to have the clover as cally as possible, since it is frequently injured by frosts in the autumn After the seed is matured, however, frost does not hurt it; and, now that we have several excellent machines for taking off the heads of clover seed, thus avoiding the expense and labor of curing the clover in cool wet weather, it may be left out late in the fall without any loss or inconvenience.

We repeat, and we would that every farmer in the country could hear us, grow your own clover seed, and never, without special reason, sow a field of wheat or barley without seeding it down, in the spring, with from 10 to 15 lbs. of red clover per acre. We believe it will pay, even though the clover sod is plowed up the next spring. We will add, too, that, where plaster can be had for less than \$5 per ton, and where experience proves it good for clover, the practice of sowing a bushel of plaster per acre at the time of sowing the clover seed, is worthy of extensive adop-tion. We think it of great benefit in enabling the young clover plants to stand the drouth .- Country Gentleman.

When pinks are in flower, their beauty may be

GRECIAN FARMERS.

Professor Felton, of Cambridge, (Mass.) in a lecture on "Lif" in Greece, "gives the following in teresting description of rural life among the aucient Greeks.

The love of rural life was one of the deepest passions of the Greeian heart, beyond the realin of na-Arcadia, real or ideal What lovely touches of ture adorn with their exquisite beauty the dialogues of Plato and even the comedies of Aristophanes. Through the whole compass of Greek literature, the sights and sounds of the country, the sweet, calm sunshine, the flercy cloud, the song o' the lark and the nightingale, the rising sun, the rich meadow, the cattle feeding in the pastures, turnished thoughts which moved harmonious members. When the Peloponnesian war opened, the plains of Attica were covered with residences, elegantly furnished, which the inhabitants with regret and tears looked back apon from the walls of the city, while the Spartan armus were laying all waste with fire and sworl. The country was tastefully decorated with little temples or chapels, consecrated to the nymphs and rural deities; and the lands were made holy ground, because in them were buried the ancestors of the fam_ lies residing in the mansions.

The Greek gardens were laid out with lawns groves, thick-its and arenues; while fountains fed meandering rivulets. Beds of asphodel, hyacinth and violets, roses, myrtles and pomegranates, diversind the scene, or wafted perfume to the senses Hore Athenian taste and luxury displayed itself, The Greek as a farmer or city gentleman is nothe Greek of classical associations; and yet, perhaps, just in these relations, he was most intensily "Greek.

Homer gives a lively sketch of the primitive counry life. Hesiod was a Bœrtian farmer, and gives precepts which seem to have been drawn from his experience. concerning lucky and unlucky days, weather ,&. The early Greek philosophers carefully observed the phenomena of the beavens, and were skilled in the arts of the season. The habits of animals, the properties of soils and their adaptation to different kinds of . ops, were matters of which they knew. Wagons, cirts. plows and harrows were minufactured on the farm or in its vicinity, and the wood used was chosen with care. Corn was ground in a mortar with a pestle, and in later times in a mill. The list of other implements, such as scythes, saws, spades use of guano, sea-weed, and commoner substances, was perfectly understood. Laud was allowed to recover its strength by lying fallow. Scare. crows were set up in the fields to scare away bilds: though a "spell" was also used, viz :--baving caught a toad they carried him around the field by night alive, and then put him in a jar, sealed him up, and buried him in the middle of the ground when, this representative enemy was buried, the seed was supposed to be safe from enemies. The value of hay was well understood. The time for moving was carfully determined, and the hayricksmade with due precautions against both damp and spontaneous combustion. When the time of harvest came, the laborers of Athens ranged themselves round the agora and waited to be employed by the farmers.

The grain was separated from the straw by horses believe him. You had better be p-isoned in oxen and mules in a circular threshing floor, usually own blood than your principles. When you re placed on an eminence in the open field. A pole think what you have done during the day. Twas set up in the centre, and the cattle fastened to the character cannot be injured except by your own it by a roap reaching to the circumference. They keep yourself innocent, if you would be happy.

moved r und it until they were brought up at the centre by the winding up of the rope, and were then turned into the opposite direction till it was unwound. Sometimes a rude threshing machine, toothed with stones or iron, or a flail, was employed. In Hom r's time a winnowing machine was used also. When the harvest was completed, the event was celebrated by a festival in honor of Demeter and Dionysius, at which cakes and fuit alone were offered.

The culture of the vine was a subject of importance, and the selection of a spot for a vineyard, the direction of its exposure, the effects of climate and particular winds, were sedulously considered. Hedging, weeding, setting out slips the treatment, of the vine were all described by writers before the time of Virgil. The app-arance of a vineyardcomposed of tree climbing vines, is beautifully deo seribed by Mr. St John, the trees being ash, popular, maple or elm, and plauted one row above another on a declivity, with the lower branches cut off; the vine climbed thirty to sixty feet, according to the depth of the soil, and running out on the high branches arched from tree to tree, or on bridges of reeds.

A series of lofty arches was thus created, beneath which the breezes could freely play, abundant currents of pure air being regarded as no less essential than constant sunshine to the perfect maturing of the grape. The fruit was k pt resh or mode into raisins. It would be endless to attempt a description of all the fruits and the methods of raising them. Cider and perry were made from apples and pears. The olive was perhaps most extensively raised, as its oil was used for lights and us the basis of cookery.

The farm yards had their noisy tenants. Geese and ducks often waddled into the kitchen, in one corner of which might be heard the comforting sounds of the occupant of the pig-stye. The art of enlarging the goose's liver for cpicures was well known to Greek and Egyptians. Henerys, furnished with roots, were attached to the kitchen so as to reable to barndoor fowls. Pigeons, peac cks, pheas-ants, guinea hels, &c., were to be found at the es-tablishment of wealthier farmers. The laboring animals were much the same as now, exc -pt that the horse was comparatively more uncommon in the working of the faim, being reserved for the chase, war, &c. The arrangem-nts of a Greek dairy were much like ours, and though butter was little used in the class cal ages, yet cheese was unive saly eaten. general y while fresh and soft. Milk was sold in the Grecian markets by women, and it frequently reached the customer in milk and water. A method used for detecting the cheat, was to drop a little on the thumb-nail; if the milk was pure it would remain in its place,-if not it would flow away.

MAXIMS FOR YOUNG MEN—Never be idle; if your hands cannot be usefully employed, afte did to cultivating your mind. Drink no intoxicating liquors. Always speak the truth. Keep go.d compa. y. Make few promises. Live up toyour engagements. Keep your own s crets. When you speak to a person look him in the face. If any one speaks evil of you, let your life be so virtuous and upright that none will believe him. You had better be p-isoned in your own blood than your principles. When you retire, think what you have done during the day. Your character cannot be injured except by your own acts Keep yourself innocent, if you would be happy. Incorporated Drainage and Land Improvement Com-pany of Upper Canada.

The Act of Incorporation of this Company, passed during the last session of Parliament, we publish for the information of our readers. The objects coutemplated are of the most important description, and every encouragement should be given to any well digested and practicable scheme for facilita ting works of draidage and sewerage upon which so materially depend the wealth and salubrity of the country. Con publis of this kind have been formed of late years in the United Kingdom, and they have been attended with a large measure of success. Finally the time has arrived when something of this fort should be attempted in Canada. We ask the best a tention of our readers to the subjoined Act, and our pages will always be open to communications on the subjet. We understand that the preliminary conditions of the Act have been complied with and that Stock-Books will be op-ned immediately at cil the Branches of the Bank of Upper Canada. It must be evident that an ent_rprise of this nature requires the prompt attention and lib.ral support of all that are friendly to the ag icaltural and general improvement of the country :--

AN ACT TO INCORPORATE THE GENERAL DRAINAGE AND LAND IMPROVEMENT COMPANY OF UPPER CANADA

Whereas land is capable of being great'y increased in productiveness and value by works of Drainage and other permanent improvements: And whereas the sanitary condition of cities, Towns and Villages is greatly advanced by sewerage, water supply and other operations : And whereas the more general extension of such works tends to prevent and remove epidemic and other diseases, and to improve the public health, and it is therefore expedient to encourage and facilitate such operations by all fitting means, and particularly by the application of Joint Stock Capital and collective enterprize; And whereas the provisions of the Act passed in the Session held in the thirteenth and fourteenth years of Her Majesty's weign, intituled, "An Act to provide for the formation of incorporated Joint Stock Companies, for Manufacturing, Mining, Mechanical and Chemical purposes," and also of the Act passed in the sixteenth year of Her Majesty's Reign, to amend the same, are of limited application and insufficient for the several operations herein contemp ated : Be it therefore enacted by the Queen's Most Excellent Majesty, by and with the advice and consent of the Legis ative Council and of the Legislative Assembly of the Province of Canada the authority of an Act passed in the Parliament of the United Kingdom of Great Britain and Ireland, intituled, "An Act to re-unite the Provinces of Upper and Lower Canada, and for the Government of Canada," and it is hereby enacted by the authority of the same, as follows:

1. From and after the passing of this Act, the following paries: Sir Allan N. MacNab, M. P. P., of Dundurn, The Honorable William Cayley, M. P. P., of Toronto, S. B. Freeman, Esquire, M. P. P., of Hamilton, Sir Edward Poore, Baronet, of Cobourg. E. Cartwright Thomas, Esquire, of Hamilton, Charles

of the Provincial Agricultural Society, George Buckland, Esquire, of Toronto, Secretary of the Board of Agriculture, E. W. Thomson, Esquire, P. esident of the Board of Agriculture, R. L. Denison, E-quire, of Toronto, J. B. Marks, Esquire, of King-ton, Thomas C. Street, Esquire, M. P. P., of Niagara, Hugh C. Baker, Esquire, of Hamilton, J. T. Gilkinson, Es-quire, of Hamilton, William Matthie, Esquire, of King-ton, the Honorable Adam Fergus-on. of Woodhill, George B. Alexander, Esquire, of Woodstock, William Balkwell, Esquire of London. Hugh Bar-wick, Esquire, of London, William Niles, Esquire, M P. P., of London, E M. Simons, Esquire of Hamil-ton, J. S. Wetenhall, Esquire, of Hamilton, Secre-tary of the County Agricultural Association, J. B. Asken, Esquire. President of the Agricultural Society of Middlesex. John Harland, Esquire, of Guelph, S C. Ruttan, Esquire. of Cobourg, David Christie, E-quire, of Brantford, W. L. Distin, E-quire, of Hamilton, and such other persons as shall become Shareholders in the undertaking hereinafter mentioned, and their successors in perpetuity, shall be and are hereby constituted and incorporated a Joint Stock Company under the style and title of "Tha General Drainage and Lan'i Improvement Company of Upper Canada," for the purpose of undertaking and executing within limits of Upper or Western Canada, all such works of drainage, irrigation, clearing, fencing, building, road-making, and other p rmanent improvement of land, as well as all works of sewerage, water supply, sewerage app ication and other sanisary operations, as they shall be called upon to undertak. by the owners of land or the Mu-nicipal authorities of Counties, Townships, Cities, Towns or Villages, or other persons or bodies corporate.

II. The capital of the said incorporated Company shall be one hundred thousand pounds divided into ten thousand shares of ten pounds each, with power from time to time, at the discretion of the Directors, and with the concurrence of the majority in value of the Shareholders, to increase the said capita to two bundred and fifty thousand pounds, by an issue of fifteen thousand additional shares of ten pounds each either at par value or at such premium as the Direotors shall think proper.

III. The affairs of the said Company shall be managed by a Board of eleven Directors, any six of whom shall be a quorum, and the following shall be a first Board, namely: Sir Allan N. MacNab, The Honorable Adam Fergusson, Samuel Black Freeman, George Buckland, Hugh Copart Baker, Jasper T. Gilkinson, James S. Wetenhall, Edward Cartwright Thomas, George T. Denison, John B. Marks, and William L. Distin, who shall hold their office until others shall under the provisions of this Act be elected by the Shareholders, with power to open Stock Books and call a meeting of Stockholders as herein. after provided.

IV. The said Directors are hereby empowered to take all necessary measures for opening the Stock-Books for the subscription of parties desirous to become Shareholders in the said Company.

V. When and so soon as two thousand five hundred shares of the said Capital Stock shall have been subscribed and ten per cent. shall have been paid in thereupon, it shall be lawful for the said Directors or a majority of them, to call a meeting of the holders of such shares at such place and time as they shall think proper, giving at least lifteen days, public notice of the same, in one or more newspapers published in the City of Hamilton, and the Can-P. Treadwell, Esquire, of L'Original, President and Gazette, at which meeting and at the Annual General Meeting in the following section mentioned, the Shareholders present, either in person or by proxy, shall proceed to elect eleven Directors in manner bereinafter mentioned, which said eleven Directors shall hold office until the first Monday of June following.

VI. On the said first Monday in June. and on the first Monday in June in each year thereafter, or on such other day or place as shall be appointed by any By-law, there shall be chosen by the Shareholders eleven Directors, and public notice therefore shall be published one month before the day of election in the Canada Gazette, and one or more such newspapers, as aforesaid; and all elections for such Directors shall be by ballot, and the persons who shall have the greatest number of votes at any such election shall be the Directors, and if it shall happen that two or more shall have an equal number of votes, the Shareholders shall determine the election by another or other vo es, until a choice is made: Provided always, that no one holding less than thirty shares shall be qualified to be a Director.

VII. It shall be lawful for the Directors to call upon the Shareholders for such instalments upon each share which they or any of them may hold in the Capital Stock of the Company, in such proportions as they may see fit, so us no such instalments shall exceed ten per cent., giving one month's no tice of each call in such manner as they shall appoint.

VIII. The several clauses of the Railway Clauses Consolidation Act, with respect to Directors, their election and duties, shares and their transfer, and sharcholders, shall be incorporated with th's Act, and shall apply thereto, and to the undertaking berein mentioned, in such and the same manner as if the same had been herein re-enacted, and shall be included by the expression "this Act," whenever used herein.

IX. The said Directors shall appoint a Chairman and Deputy Chairman from their own body, and also a Secretary, an Eagineer in Chief, and such other officers as from time to time may be requisite, and shall make such By-laws as they shal deem proper for the management of the stock and affairs of the Company, for prescribing the duties of their officers and other matters connected with the proper management of the business and affairs of the Company, and copies of such By-laws certified by the Secretary of the Company and under its Conprate Seal, shall be *prima facie* evidence of such By-laws in atl courts of law and equity in this Province.

X. In pursuance of the authority herein given, the Company shall have all power, 'liberty and license to contract for, execute and perform all works of trunk, arterial, surface and subsoil drainage of sewerage, water supply, the collection and distribution of sewerage, and other refuse in Couulies, Townships, Cities, Towns and Villages, the clearing reclaiming, fencing, grading, and irrigating of land and for such purposes to construct, erect, work and maintain all houses, homesteads, tileries, kilns, steam engines, water wheels, embankments, shuices, reservoirs and roads, and to do and perform all and singular such other works and things not herein enumerated, as may be needful or convenient for properly and effectually carrying out all or any of the operations hereby authorized to be done.

XI. When owners of land or the authorities of Counties, Cities, Towns and Villages shall desire to avail themtelves of the powers of the Company for the execution of all or any of the works herein au thorized to be done, the Company shall, on applica -

tion from such owners or autho ities for their approval and concurrence, when a contract shall be entered into for the due performance of the work, which shall be binding on all parties. The Company may require from such owners or authorities security for payment to the Company of such sum for preleminary expenses as shall defray the actual cost there of if no contract for work is entered if o; but if a contract b concluded between the parties those expenses shall be included in the amount of the contract.

2.1. The second seco

XII. In all operations undertaken by the Company, it shall be lawful at the option of the owners of tands, or authorities of Gioics. Towns or Virlages, for the said Company to ext nd the payment of the cost of the works over any period to be agreed up n between the parties, not exceeding twe ty years, and to receive the same by such yearly, halt yearly or quarterly instalments, to be also agreed upon, as shall redeem the said tota cost and interest within the period prescribed, the said owners or an horities giving to the Company a full and sufficient mortgage, security or n to harge upon the ands improved or the works executed, for the time over which the payment of the instalments extends.

XIII. The Company shall have power to acquire, hold by mortgage or otherwise, to improve, sell and convey a y and and read estate, and also to hold and self any personal and moveable projercy whatsoever, which may be neces any for conducting the several operations of the Company, or as security for the payment of any moneysdue to them or which shall confort with the general design of the powers and provisions herein given and made.

XIV. In consideration of the character of the operations to be undertaken and the nature of the security upon which the repayment of their cost is based it shall be navful for the Compa y to is ue Debetures in sums not less than twenty-five points currency each, either in currency or sterling as the Directors shall find convenient, bearing interest at the rate of six pounds per centum per annum, and payable either in this Provinci or elsepoint with the periods over which the repayment of their contracts shall extend, and so that the total amount of such Debentures issued or outstanding at any one time, shall not exceed two thirds of the entire amount of the cost of the works ex-cuted by and in progress of repayment to the Company.

XV. The Directors may and are hereby authorized to call at any time or times, as they may block needful Special Meetings of the Shareholders at the offices of the 'ompany, or at any other place by adjournment, as may be found more convinient; and at each and all of the yearly General Meetings, the Directors shall submit a report of the state of the affairs of the Company, together with a true and correct balance-sheet and account, shewing the amount of capital paid up, the amount of moneys expended and liabilities, the contracts extering and other matters requisite to the function entry shall declare the amount of dividends to be paid to the Shareholders aut of the profits of the Company, and shall transact a y business which may be meetful.

XVI. At such Neetings it shall be law ut or executors theory, curators, guardians, trustees and municipal authorities, to expresent a divolet on the shares in their hands, but they shall not be eligible for Directors or for any office under the company, XVII. Inasunch as the works herein provided are calculated to be of essential sanitary built to the inhabitants of cities, Towns and Villages, it shall be lawful for Municipalities to take and hold sbares in the Capital S ock of the Company, to such extent as they may severally duly determine: Provided, that is no case the amount held shall exceed five shares to every one hundred souts of the population

XVIII. The Company shall furnish the Bureau of Agriculture with a copy of each yearly report and statem nt of accounts, and shall at all times afford any further infor nation as to the state of the affairs of the Comp.ny which may be required by the Lagislature or the Government.

XIX The interpretation Act shall apply to this Act, and this Act shall be deemed a Public Act.

MAKING CHEESE FROM A REW COWS.

Except in the dairy districts, how seldom do we meet with good cheese on a farmer's table; how often do we meet with none at all. And yet every farmer, keeps a few cows, sufficient at least to supply the fam ly, with butter through the year, and three is no r. ason why every one who keeps two or three cows should not make good cheese enough for his own use. More labor indeed is required to make a pound of cheese from a small dairy than for a large one, but this is no excuse for not making it. since the same is true, to a certain extent at least, in regard to butter.

Some of our readers who make an hundred pound cheese every morning, will be inclined to smile at the following directions; but nevertheless, we can assure them that we have eaten the best of cheese made in this way. There are probably many better methods, and if our readers know of any we should be thankful to hear from them

The difference between making cheese from a smal and from a large dairy consists principally in this In a hage dairy the curd is made into a chee e every day, while in the small dairy the curd - obtained precisely as in the large dairy—is slightly pressed and haid by in a cool place til a sufficient quantity is obtained for making a cheese as large as desired

The night's milk should be kept as cool as possi ble, and the next morning placed in a tub, together with the morning's milk; and the whole, by adding a portion of beated milk, raised to about 90 Fabr. The rennet is then added, the mitk well stirred, and afterwards let alone till the curd is well come. The time this occupies varies from fifteen minutes to two hours, according to the amount of rennet, temperatare &c.—the warmer it is put together, and the more rennet there is added, the quicker will the cheese come. As a general r-le the longer it is in coming, the tenderer and sweeter will be the curd. We shoud seldom desire it to come sooner than 40 minutes after the rennet is added.

When the curd is come, it is broken quite fine either by hand, or by a card breaker, which cuts it, into very small pieces. After this it is allowed to stand and settle. Some persons at this stage raise the temperature of the whey and curd up to 95 or 100. This is called "scanding." The practice has its advantages, and disadvantages. If the milk is warm enough when the rennet is added, it may be dispensed with ; if too co-l; it may be required. If it is desired to sell the checkse when a month or six weeks old high scalding is indispensable, but in making good checks for home use, we should scald very little if at all.

The curd is easily separated from the whey by | er in t' is country loss from two throwing the whole into a sieve or on to a cheese | year by using a poor grindstone.

cloth. The curd is then placed in a strong cloth, and well pressed to remove as much of the whev as possible. This is very important. It is then placed in a cool place, and the operation repeated daily,—or every other day if the milk will keep sweet, as it will in a cool cellar in the fall.

When sufficient curd is obtain-d in this way to make a cheese of the desired size, it is all mixed together, brok-n quite fine, and alted II must the be presed for a few hours; a clean dry cloth put around it, inverted and pressed again. At first it should not have too heavy a pressure put on it, but it cannot be pressed too dry It should have dry cloths put round it and kept under the press till it does not wet them. Many will object to so much pressure, but we speak from experience and with much confidence on this point. Less scalding, and more pressure would, in our opinion, add greatly to the real value, and cheese-like flavor; though perhaps not to the buttery appearance and saleable qualities of most American cheese.

When the cheese is taken from the press it should have a little sall put on it, and be kept in the dairy, or other cool moist place for a few days. It may then be taken into a dry room, when for the first week or two it must be turned every day, or the side next the floor will mould. The room should be well ventilated and nearly dark.—Country Gentleman.

ABOUT GRINDSTONES.

The following is from a correspondent of the *Pro*gressive Furmer. As the period of harves, has approached, it furnishes a hint from which many farmers may profit:

I speak without fear of contradiction, when I say that more than one million dollars have been lost by the farmers in the United States, during the last half century, by their poor economy in the use of grind-stones. Many a farmer, by using a poor grindstone loses enough in one season to buy a good one. But one farmer who is very much afraid of book farming, and never read an agricultural paper in his life steps foward and inquires how he has lost anything by grindstones ? He says he uses the same one now that his father gave to him fifteen years ago-and then it was quite an old one-therefore he thinks he has been quite saving in that line of business Perhaps it would be useless to try to convince him of his loss, for some men are wise in their own conceit, therefore there is but little hopes of improving them. Any farmer of common sense, who has ciphered through smple mu'tiplication.can tell very near how much he loses every year by using a poor griadstone.

We will suppose that the work can be done onethird quicker on a good stone than on a poor one: we next suppose that the time spint by a farmer and his hired man in grinding tools duing the year, anounts to twelve days: then, if one-third of this could be saved by using a good stone, here is a loss of four days. These four days work, toge her with board, cannot be less than four dilare, which would buy a stone of the first quality and all its fixtures. But the loss of time occasioned by grinding on poor ston, s is far from being all the losses that arises from the use of such stones. The tools cannot be ground near as well, therefore the workman cannot perform as much la or or do it as well, as if the tools had been properly ground. In my opinion many a farmer in t' is country loss from two to five dollats every vear by using a poor grindstone.



THE GRAIN DRILL.

The Horse Drill has been much longer in use emong g od farmers than reaping and mowing machines, but it has not extended itself so rapidly as the latter. One reason for its slow progress in this country, is doubtless becau e it is not so pre evineutly a labor saving muchine. The great object of the grain-grower in this country, is to save the trouble and expense of manual labor, and to expedie the several processes of cultivation, harvesting and preparing for market. The Drill is not remarkable as a labor saving implement. If we concert t ie borse-labor into it equivalent, and sow by hand. we shall probably find that little is saved either in time or expense. We must lok elswhere for the benefits of using the Drill. The evenness and reguarity with which the seed can be sown ; the uniformity of depth at which it is deposited, and the eves quent greater immunity from the effects of frost in winter and spring, are some of the advantages of drilling grain. It is also alleged that

wheat grows better, and is less liable to rust in dril's, than when broadcast. Repeated experiments have proved the superiority of drill-sowing in the old country, and also if we can be leve the accounts we have seen, in the United States. In the few instances that have come under our notice in this country, equ lly beneficial results have been real zed. I does not require many figures to show that if the Dril will give two or even one tushel more to the acre, other things being equal, than the broadcast method, it would pay to use it. They are now made in a much simpler form than the Eog'ish Drill, and at much le-s cost. We believe they are manufactured at Ham Iton, St. Catharines, Newcastle, and also imported from the Unit d States. A very good kind call d "Seymour's patent," is sold by McIntosh & Wa ton of this City. The above cut represents one of Messrs. Rugg'es Nourse and Mason's Drills, of Boston U. S.

A GOOD COMPOST FOR SANDY LAND.—Take 10 loads of stable or barnyard manure, 5 leads of clay, 20 bush is of ashes, and twenty bushels of lime; mix the whole well together, and let itremain in pile a few weeks; then turn it over, and it will be lit to apply to the land.

The above will make a better drossing for an acre of land than twenty five loads of stable or barn-yard manure alone, and will last longer.—American Farmer.

In all composis intended for light, sindy soils, clay is one of the motivalue ble ingredients that can possibly be used. One reason why sandy lards are so little capable of vegetable production, in their want of authesiveness. It is almost impossible to consolidate them sufficiently to secure that degree of retartion so essentially and indispensibly necessary to the decomposition of those organic matters which are applied in the course of cultivation as manure. The quantity of clay required to change the constitutional texture of such lands, is necessarily great; yet with copious applications of putrescent substances, and the regular a d systematic manipulations of judicicus hash ackry, the task of supplying as much as may be meessary effectually to ameliorate and permanently to improve the texture and productive capacity is by no means tedious.

There are few farmers who could not devote three or four days in the year, with their teams, to carting on clay from the low grounds, or to accumulating it in their yards and bog-styce, to be then worked up and composed with the voidings of the animals and other materials capable of imparting fertility to their lands.

The more clay one can afford on such improvements, the better; for there is little danger, in any case of applying too much. Sand on clay lands, is equally beneficial, and perhaps, in most cases, even more to

PRIZE ESSAY ON CANADA.

We have received a copy of the Essay which obtained the first prize from the Paris Exhibition. Committee, and find it as was to be expected, a very interest ing and succinct history of this noble province, it statural resources, and the character and condition of its inhabitants. The author is Mr J. Sheridan Hogan, a young gentleman connnected with the political press. and for some time a resident of Hamilton, U C. We notice some omissions and a few not very important errors, but as a whole the essay is a very creditable performance. We select a short chapter :--

AGRICULTURE AND ITS PROGRESS. THE SAME COM PARED WITH THE UNITED STATES.

Canada, but especially the Western Province, is and has been ess attally an agricultural country. Acting upon a policy which it is neither necessary to explain, nor to discuss the merits of here, England has always desired to make Canada. and indeed all her North American colonies, marts for the consump-tion of her manufactures. The consequence is, that Canada's energy has been chiefly directed to agriculture. It is true that she has valuable minerals, but it is only recently that public attention has been directed to them, and that capital has been applied to their production. Whatever prosperity the Canadian people enjoy, it is emphatically to the soil, the use they have made of it, and the timber they found upon it, that they owe it. To follow the plough, therefore, is to follow what has led to Canada's wealth. To count her stacks of corn is to tell what she has to show for her labour. The statistics which mark h r annual production are the mile stones on her road to prosperity; and if the reader has a fancy for wellstored gravaries, rich harvest fields, farm yards teem ing with plenty, and beautiful animals-for they are not the less so for being domestic and useful.-1 would invite him to take a short excurs on upon this pleasant road of Canadian prosperity.

The value of all the vegetable productions of Canada in 1851 was estimated at $\pm 9.200\ 000$, grain being $\pm 5.630.000$, other products $\pm 33570,000$. The wheat erop of that year in Upper Canada was 12.682,-550 bushels, or near y 13½ bushels for every inhabitant, while that of the United States in the same year gave only about $4\frac{1}{2}$ bushels to each inhabitant.

It would exceed the limits of an Essay to trace the large increase in the vegetable production of Ganada. The progress of the American States, unexampled perhaps in the history of the world, afford, by contrast, the best proofs of the agricultural advancement of Canada. Ohio, the best of these States for agricul uat purposes, and where land is held, on an average, at double the price of that of the whole Union, products, with nearly are for acre under what cultivation, one-sevental less in quantity than Upper Ganada, there being one and a half bushels less to each inhabitant.

In the last ten years the growth of wheat in the whole United States increased 48 per cent., and that of Ganada. in the same period, increased 400 per cent. Even in Indian corn the production of Canada compares most favorably with the States, the increas in the States, for a period of ten years, up to 1851, being 56 per cent; and for nine years, up to the same period, that of Ganada was 163 per cent.

Of oats, the growth in Upper Canada has, in nice years, increased 133 per cent., and in Lower, seventy, avainst 17 per cent. during the same period in the United States.

The amount of live stock is justly considered one of the most important features in agriculture, and one of primary consideration in good farming, as without it the properties of the soil could not be sustained, the expense and difficulty of introducing Guano, Nitrate of Soda, and other costly manures pressing too heavily upon the farmer in a young country. In addition to this, stock is a source of wealth, as affording butter, cheese, wool, and other marketable produce.

In 1851, Canada possessed 592 622 milch cows, boing two to every 64 persons, and 46,939 more than the State of Ohio, which had in this year about an equal number of inhabitants In sheep. Upper Canada had ten, and Lower Canada eight to every one hundred inhabitants, whilst the whole United States hand 7 1 6th. In ten years the increase in the States of the latter animals was equal to 10 per cent., and in the weight of their fleece 32 per cent. In Canada, f r the same period, the increase in animals was 35 per cent., and in wool 64, the quality of Canadian wool being declared, at the Great Exhibition, to be nearly equal to the finest samples of German.

Canada possesses one horse to every five inbabitants, and the increase in ten years has been 50 per cent. The best cattle increased 64 per cent. in six years, and the total live stock, according to the Census, in 1851, was 4.249.314 heal. The increase since that period must have been very large; and the importation of the finest European breds, carefully selected, has enabled the Canadian farmer to compete, in stock, with any part of the world.

Fr m a summary of the facts clucidated by the last Gensus of Canada and the Uni ed States, taken within a year of each other, it appears that Canada far exceeds the most productive State of the. Union in wheat, peas, rye, barley, oats, buckwheat, hay, henp, flax, hops, ma le sugar, and pointers, Ohio largely exceeding Canada in butter, cherse, grass sted, wool, tobacco, b ef and poik; and if the produce of the forest be added, of which Canada exported in 1851 t the value of upwards of a million and a half of pounds, the relative wealth is greatly in fovor of Canada.

Already the population of Canada is more than one-thinteenth of the United States, the area in square miles, exclusive of territories, being one-sixth; her growth of wheat is one-sixth that of the American Union, and possessing, as she does, the great high way of the St. Lawrence to the West, her resources present an unrivalled field for energy and enterprise.

As a wheat exporting country Canada has made great progress; and as the improved methods of agriculture are more generally adopted, and her rich territories in the west become better settled, her exports of breadstuffs will be immense. It would appear that the United States, on the contrary, during the last twenty years, have been unable, even with the temptation of famine prices, to increase their export, for in 1831 their export of wheat and flour was equal to 9.441 091 busbels, and the value \$10,-461.715. In 1851 the export was 11,028 397 busbels, the value \$11.543.063, the increase in twenty years b ing only 1,587.306 bushels.

In 1838 Canada exported 296.020 bushels of wheat, a ad. i \pm 1852, 5, 196.718 bushels, thus increasing eighteen times. If r experts in grain have doubled our times in fifteen years, or more than once in every four years. They are now equal to one-half the entarc exports of the United States. There are, however, two articles which, until lately occupied little attention in Canada, namely, hops and flax Of the former a considerable amount has been already exported, and the quality was considered fully equal to the British at the Great Exhibition. The growth of flax is likely to become a very important feature in Canadian industrial wealth, for the soil and climate of Canada are regarded as better suited for its growth than the great flax producing countries. The fibre is of the best description, and Canadian hemp is fully equal to that from the Baltic. The Government have already shown a disposition to foster and encourage this new source of national wealth, and its manufacture will soon become very general in the country.

[The prediction respecting flax manufacture will not be verified in Upper Canada.-Ep]

WASH FROM SINK.

There is probably no article that can be applied to growing vegetables, more decidedly valuable, than the wash from the sink spout. And yet this is not generally understood by farmers, and few efforts are made even by the most economical, to economize an article in which are to be found all the elements which contribute to the sustenance of vegetables in a state of perfect solution, and consequently in a condition the most readily appropriable by thelorgans that they designed to nourish, invigorate and sustain.

It has been computed by chemical men that the amount of *pabulum*, or a im ntary matter, contained in the urine of animals, is equal to that of the solid voidings. It has also been asserted that one hogshead of soap suds, if applied in irrigation, would produce effects upon the corn crop as obviovs and enduring, as those resulting from a cord of the best manure. This assertion is, perhaps, erroneous; but that the effects of the article applied in the manner specified, would be highly salutary, no one who has witnessed the effects of soap-suds upon cu cumbers, squashes, house plants, &c., can indulge a doubt. But the most economical method, probably. of saving and appropriating this liquid to the purposes of vegetable enrichment, is to mix it with the materials of the compost heap. Any substat ce which will absorb it, may be made a vehicle for conveying it to the fields such as swamp muck, which, in a dry state, readily absorbs three times its weight of water. loam, old tan, rotten leaves, straw or saw dust, all of which are highly valuable, and act favoraby both on the soil and crop.

If it found inconvenient to convey the sink waste to the piggery or barn cellar, dig a hole near the house six feet square, and two or three f et deep, according to the amount of water from the sink. If this is designed as a permanent arrangement it would be well to stone or brick it and cover the bottom and sides with water cement. But it will answer very well without either, by laying some old timber, joist or stones round the edge, and banking the earth up against it so that it may be covered up and not be offensive to the sight or smell.

On the bottom of this, lay meadow mud. straw, leaves, weeds, or common loam, and let the water on. These materials should be frequently supplied in small quantities until the place is full, when it may be carted away and the operation continu d.

 Δ Farmer who had adopted this plan, thinks he can make by it at least, twenty dollars' worth of the best of manure in a year, though the operations of the kitchen are limited, the family being small. -N, E. Farmer.

THE MONTHS.-AUGUST.

"Oh tis a goodly sight and fair, To see the fields their produce bear, Waved by the breezes lingering wing, To think they seem to laugh and sing; And call the heart to feel delight, Rejoicing in that glorious sight, And call the reapers skilful hund To cull the riches of the land."

The name of this month was given by the Romans in honor of Augustus Gesar upon his assuming the consulship, who had been successful in subduing Egypt and putting to an end the civil war. Prior to this it had been known as *Sestiles*, as being the sixth month from March, which was considered the first month of the Roman year. The Anglo-Saxons called it *Arnmonath*; Arn signifying harvest. It was also designated in accordance with its characteristic natural features; Barn-Monath, and Harvest-Monath.

LAMMAS DAY, which falls on the first of August has b en supposed to signify LAMB-MASS, because on that day the tenants who held lands belonging to the Cathedral Church of York, which is dedicated to St. Peter ad Vincular, were bound by their tenantcy to bring a live lamb into the church at high mass. Others give the same derivation, but explain it by saying that "lambs were not then fit to eat, they were grown too big." Others again have imagined that it came from the Anglo Saxon HLAFMAESSA, that is LEAF-MASS, "because on that day the English made an offering of bread made of new wheat." It is a pleasing feature in the character of our ancestors that they were accustomed to express their gratitade for the gitts of Providence by special acts of thanksgiving in public worship: an example founded in the true spirit of philosophy. and most obviously in accordance with the Divine will.

The grand feature of this month is the GRAIN HAR-VEST, which is usually commenced in this country in July, but can seldom be said to be completed before the middle, or in late districts, the end of August. The farmer is now about realizing the fruits of his skill and toil. Howitt thus truthfully describes this joyous sea on : " It is a time for universal gladness of heart Nature has completed her most important operations. She has ripened her first fruits, and a thousand hands are ready to reap them with joy. It is a gladd ning sight to stand upon some eminence and behold the yellow lines of harvest amid the dark relief of hedges and trees, to see the shocks standing thickly in a land of peace; the part'y reaped fields, and the clear cloudless sky shedding over all its lustre. There is a solemn splendour, a mellowness and maturity of heauty thrown over the landscope. The wheat crops shine on the hills and slopes, as Woodsworth expresses it like golden shields cast down from the sun." For the lovers of solitary

rambles, for all who desire to feel the pleasures of a thankful heart, and to participate in the happiness of the simple and the lowly, now is the time to stroll abroad. They will find beauty and enjoyment spread abundantly before them. They will find the movers sweeping down the crops of pale barley, every spiked ear of which, so lately looked up bravely at the sun, is now bent downwards in a modest and graceful curve, as if abashed at his ardent and incessant gaze. They will find them cutting down the nes tling oats, each followed by an attendant rustic who gathers the swath into sheaves from the tender green of the young clover, which commonly sown withoats to constitute the future crop, is now showing itself luxuriantly. But it is in the wheat field that all the jo lity and gladness, and picturesqueness of harvest is concentrated. Wheat is more particularly the food of man. Barley affords him a wholesome but much abused potation; the oat is welcome to the hom ly board of the hardy mountaineers, but wheat is especially, and everywhere the "staff of life." To reap and gather it in, every creature of the ham let is assembled. The farmer is in the field, like a rural king amid his peop'e-the laborer, old or y ung, is there to collect what he has sown with toil. and watched in its growth with pride; the dame h .s left her wheel and her shady cottage, and, with sleave-defended arms, scorns to do less than the best of them; the blooming dam-el is there adding her summy beauty to that of universal nature, the boy cuts down the stalk which overtops his head; childreu glean among the shocks; and even the unwalk able infant, sits propt with sheaves, and plays with the stubble, and

With all its twined flowers,

Such groups are often seen in the wheat field as deserve the immortality of the pencil. There is something too about wheat-harvest which carries back the mind, and feasts it with the pleasures of antiquity. The sickle is almost the only inplement which has d seend d from the olden time in its pristine simplicity—to the present hour neither altering is form for becoming obsolute amid all the fashious and improvements of the world. It is the same now as it was in those scenes of much beauty which the scripture history without any labored description, often by a single s roke, presents so livingly to the imagination, as it was when tender thoughts passed

Through the sad heart of Ruth, when sick for home, She stood in tears amid the alien corn ;

When the minstrel-king wandered through the soli tudes of Paran or fields reposing at the feet of Car mel; or as it fell on a day, that the child of the good Shunamite went out to his father to the -reapers. "And he said unto his father, My head! my head! And he said to a lad, carry him to his mother. And when he had taken him, and brought him to his mother, he sat on her knees till noon, and then died. " 2 Kings iv. 18-20.

Let no one say it is not a season of happiness to the toiling peasantry : I know that it is. In the days of my boyhood I have partaken of their harvest labors, and listened to the overflowings of their hear's as they sat amid the sheaves beneath the fine blue sky, or among the rich herbage of some green headland beneath the shade of trees, while the cool keg plentifully replenished the horn, and sweet after exertion were the contents of the harvest-field basket. I know that the poor harvesters are amongst the most thankful contemplaters of the bounty of Providence, though so little of it falls to their share. To them harvest comes as an annual festivity. To their healthful frames, the heat of the open fields, which would oppress the languid and relaxed, is but an exhilarating and pleasant glow. The inspiration of the clear sky above, and of scenes of plenty arou d them of the very circumstance of their being drawn from several dwellings at this bright season, open their hearts and give a lip to their memories and many an anecdote and history from "the simple annals of the poor" are there related, which need only to pass through the mind of a Woodsworth or a Crabbe, to become immortal in their mirth or woe"

The description of harvest work given as above by Mr. Howitt requires cons derable modification in reference to the conducting of such matters on this continent. The "cradle" has for a long time almost wholly displaced the sickle, and such of late years has been the progress of agricultural michanics that the reaping machine is rapidly superseding th former in many districts. In this country it is of the utmost importance to gather the barvest quickly and cheaply; an object which improved machinery only can facilitate. Even in Britain within the last three or four years the Reaping Machine has been not only introduced, but successfully and extensively employed in seve al counties; and it is every year making progress. It is a curious fact that we owe the invention of this valuable implement to a Scotch clergyman, now living ; and it is generally conceded by the farmer at home that Bell's Improved Resper is upon the whole the best Machine yet introduced, although most or all of the more celebrated American m chines have ha! their comparative merits tested by repeated tria's. It must certainly be confessed that these modern changes which must be after all regarded as great improvements, have to some extent interfered with our early and poetical associations in connection with the season and work of Harvest. Like the modern Railway, mowing, reaping and thrashing machines are great innovaters on old and often pleasing associations and customs, which are destined to yield to the progress of improvement.

With rega d to the warmer portion of the year it has been observed that in the three months previous to harvest, there has been more of actual beauty to please the eye, as there has been also greater melody to charm the ear. The loveliness of Spring, "when wheat is green and hawthorn birds appear," when all is fresh, dewy, and bright, and the hand of man has not yet swept away with scythe or sickle, the fair produce of the meadows and fields,—that loveliness is not to be equalled, far less surpassed by any of the glories of autumn. Sweet y does Bishop Heber describe a journey taken at this most beautiful of seasons.

- "The thrush from the holly, the lark from the cloud, Their chorus of rapture sung jovial and loud; From the soft vernal sky to the soft grassy ground, There was beauty above us, beneath and around.
- "The mild southern breeze brought a shower from the hill, And yet though it left me all dripping and chill, I felt a new pleasure as onward I sped, To gazo where the rainbow gleamed broad overhead.
- "Oh I such he life's journey, and such he our skill, To lose in its blessings the sense of its ill; Through sunshine and shower, may our progress he even, And our tears add a charm to our progress to Hearen !"

The twelfth of August, when grouse and ptarm'gan shooting begins, forms quite an epoch in the life of a sportsman in the old country. And this is the twelfth of August," says Christopher North. " and all the Highland mountains have since dawn been astir, and thundering to the impetuous sportsman's joys! Our spirit burns within! Lo! how beautiful those fast travelling no nters do their work on that black mountain's breast, intersecting it into parell lograms, and square's. and circles, and now all asleep on a sudden, as if frozen to death ! Higher up among the rocks and cliffs and stones, we see a stripling whose ambi ion is to strike the sky with his forchead, and wet his hair in the mi-ty cloud, pursuing the ptarmigan, now in their viariegated summer dress, seen even among 'the unmelted snows. The scene shifts, and high up in the heath above the Linn of Dec, in the forest of Braemar, the Thane-God bless him-- has stalked the red deer to his lair, and now lays his unerring rifle at the rest on the stump of the witches' oak. Never shall Eld deaden our sympathies with the pastimes of our fellow men, any more than with their highest raptures, their prof oundest griefs. Blessings on the head of every true sportsman of flood, or field or fell !"

We are temp ed to give another extract from the pen of the same inimitable writer in reference to this joyous season. "At this season of rature's abundant, we might almost persuade ourselves that human want was a fiction; see yonder line of lusty mowers sweeping down the abundant crop of pale barley, how vigorous, how cheerful their appearance These are not the sons of misery and starvation, they

have made acquaintance with barley long before this, and in a form quive a^3 congenial to them, whether in the brown loaf or the foaming tankaid; and now turn to the wheat field, which is still more an attractive scene. * * * * All is brautiful, all is tender and touching; and as we walk in the corn field, even now, these glorious old so mes live again, and still continue to do so long as corn grows. An average crop is satisfactory, but a crop that soars high above an average—a golden year of golden ears, sends joy into the heart of heaven. Let the people eat—let them have food for the bodies, and then they will have a beart to care for their sou's."

We have abundant reason to feel thankful to a bountiful Providence for the liberal manner in which the husbandman's labors have been crowered with success in this highly favored portion of the B. itich Empire. Most of the crops will be good, several of t em abundant, far more so then there was any reason to expect a month or two ago. With a fortnight's fine weather most of the crops will be safely gathered in. How appropriate the lines of the Poetof the Seasons :--

"The HARVEST treasures all Now gathered in beyond the tage of storms, Sure to the swain ; the circling fonce shut up ; And instant win er's utmost rage defied, While loose to festive joy, the country round Laughs with the loud sincerity of mirth, Shook to the wind their cares "

Reverting for a moment to the festivities which accompanied the *Harvest Home* in the olden time, we may appropriately conclude our somewhat de ulting remarks in the words of Tusser, with the simple observation that however times and customs may change in the course of the different generations of mankind, the spirit of kindness,—of wid-embracing human sympathies, remain for ever the same.

"Once ended thy harvest, let none be beguiled, Please such as did help thee, man, woman and child, Thus doing, with alway such help as they can, Thou winnest the praise of the labouring man."

Β.

NOE WHEAT FOR DISTRIBUTION.—At the Agricultural Bureau of the Patent Office there have been received parcels of the early Noe wheat, in beantiful varieties This fine grain was introduced into France by M. De Noc. It has been adopted and spread extensively through the centre of the country under the name of "blue wheat," is hardy, productive, and in quality surpasses the well-known Shoman what, which it is fast replacing. Preference is also given to it on account of its precedity, and accords better with eye. As an early spring wheat reaching maturity before the fly or rust can effect its progress, it challen, es attention especially in the middle of the Southern States. No time will be lost on transmitting samples of this grain to proper bands in the respective States and Territories for experiments and reports.

Porticulture.

OSAGE ORANGE HEDGES.

We copy the following from the June number of the Wisconsin lowa Farmer. The Osage Orange has been must thoroughly tried in the West :--

We are well aware that considerable projudice exists against this species of live tence as not being adapt d to our climate and soil; and that this prejudice is entertained by many who are supposed to have experience enough in such matters to give their opinions good authority. We have never felt certain of the value of this hidge-plant until of late, and have therefore recommended a trail of it more as a proper experiment, than as a certain and valuable investment. Now, however, we have become well satisfied that this plant is well suited to the climate and soil of Wisconsin, Jowa, and we will give our reaso is why.

A few weeks since we happened to call at the house of Mr. WM TRUESDELL, in the city of Janesville, and were shown a young Osage Orange h dge, three years from the seed, and having stood two years in its present position. It had stood uninjured the two last very hard winters-not one plant in fitty having died either winter, except where some plants were exposed on the edge of a high wall, with little soil to guard them. The plants were alive to the very bud below where they had been pruned, which was about twelve to lifteen inches above the ground If these plants, then, can thus stand two such winters, and grow their, can thus stant two such winters, and grow theirly and rapidly, they can stand every effect of our climate. We are well aware that others have not been so fortunate as Mr Truesdell, but they have not used the pruning shears as liberally as he has. They have attempted to raise walking sticks, while he has tried to raise a hedge. They may have been unsuccessful in their att inpts ; h has been succ ssful in his You can succeed as well as he did, if you will do thus :-

There is yet time to transplant and sow the seed this season—though rather late for the former. We are told the last of May is the b-st time for transplanting—perhaps the lateness of this-pring will allow it to be done cally in June, hence we will give some directions how to commence:

Prepare the line of your hedge by deep ploughing (trenching with a spade is of course still better), three fect, or even four feet wide Set your p ants either in one row or two, according to your fancy. If in one, 8 inches apart—If in two, a foot apart, breaking joints, thus—

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The two parallel rows being about 4 or 6 in. apart. Cut down your p ants early in the season (in August) to three buls Again, in the fall, cut them down, not to any perticular height, but so that the lateral branches of one plant may interlace with those of another, and form an impenetrable mass, so that you cannot thrust your open hand through. As the base close to the ground, becomes dense, allow the plant to rise, still keeping lateral bracing running out and interlacing. After they have been set two years they will run up the height of an ordinary feace in six or eight weeks after praning. We think in one year more, a very insufficient fence will, with the aid of the hedge, he suffi lent protection ; and, in two years more, you may take away all fence, and leave the hedge as a protection, that will last half a century.

In pruning down as closely as we have recommended, you lose nothing, for the upright stems will instantly grow up to a sufficient height for protection, and the tops will not be winter killed Remember, however, that the line of your hedge is to be kept perfectly clean and free from weeds. This will require very little labor after the first year, as the plants overshadow the ground too much to allow any great growth of weeds.

The Cost.—A g-ntleman in Janesville, desirous of forming such a hedge, told Mr. Truesdell that an offer had been made him to set out and raise for four years, at seventy five cents per rod. Mr. T. insisted, that by buying the plants at four dollars per thousand, and paying cash for all the labor, it could be done at twenty five cents the rod. This may appear low, but by taising the plants from seed, it could certainly be done for that sum, if not for less.

If you get the seed, get that that has been raised as far north as it can be well ripened.—The colder the climite the seed is reled in, the better it will fit a cod climate; but with close pruning seed will do well, even if brought from Texas. Plant immediately.

REMARKS ON BUDDING AND GRAFTING.

Buds shou'd always be set before the stock or bud has ceased to grow for the season. In setting pears in pear stocks, it is important to commence earlier than apples, as the former do not grow so long as the latter. Plum and cherry stocks also stop growing early, unless the development is kept up by stimulating manure, and careful tillage. Apple trees, if healthy and in a good growing condition, may be budded late in August. Peach trees continue to grow even longer than apple trees, and it is never advisable to bud them early. In all trees, when budded, there should be sufficient sap to cause the bark to peel freely. of the proper time for performing his operation is the several kinds of the bark in the mentioned, the ready pre ing of the bark is the only criterion to be relied on. In grafting it is frequently necessary for those who are engaged extensively in the business, to preserve scions for some months before the time arrives for inserting them. For this purpose, no material has yet beer discovered superior to damp sawdust. In regard to its efficien. cy the editor of the Albany Cultivator says :

"The mode first suggested to us by T. G Yeomans, of Walwoth, N. Y. of preserving the scions of fruit trees in moist sawdust, has proved superior to any other. It is better than damp moss, in the facility with which the scion may be perfectly inhedded in it, leaving no interstices; and it excels moit t saud, it being lighter, more spungy, and entirely free from a grit which may jojure a knife. We have without difficulty preserved scions, which were cut in the summer for budding, till the following spring, and inserted them as grafts with entire success; and we have kept winter cut grafts till midsummer perfectly fresh, and employed them successfully in budding. A bushel of sawdust will retain its moisture for many weeks mearly unaltered, but water must not be applied too copiously or water soaking and decay will be the result. The north side of a building or a cool cellar is the best place."

In Kennick's W rk on Orchadiny, we have the following remarks on Innoculating ;

"Innoculating is the operation of transferring any desirable variety of tree upon the stock of an interior or wild variety. The operation is principally practised on small trees, and only during the time the sap flows freely, and chiefly during the months of August and September. Select for the buds the ripest young tw gs of the present year, and cut off the leaves, leaving the footstalk entire. Having se leated a smooth place in the stock, make a perpen-

lected a smooth place in the stock, make a perpen-dicular slit downward, quite through the bark, an inch or a little more in length. Make a cross cut at the top of this slit quite through to the wood, a little slanting downward ; next with the ivory haft of the budding knife, raise the bark on both sides from top to bottom. being very careful not to injure in the least the cambium or sap wood Next and with expedition proceed to take off a bud; this is effected by entering the knife a little more than half an inch below the bud or eye, quite through the bark, and separa ing the bark from the wood to the same distance above the eye, always leaving a very thin slip of wood of about one-third of the length of the bud, this thin slip of wood occupies the middle sec-tion of its length. The bud is to be inserted in the stock to the bottom of the slit, and between the bark and wood ; and the top of the bud being squared even with the cross cut, every part except the eye, is firmly bound and covered with strong wet bass string or matting."

DEFORMED ROOTS.—English farmers are much troubled with deformed roots, in their culture of carrots, parsnips, and other root crops. They form what are called fingers and toes, instead of the conical and regular shapes usual in successful root-growing. On a large scale this becomes a serious evil. A great amount of discussion has been had in their papers as to the cause of this difficulty, and the remedy for it. A late writer in the *Agricultural Gazette* s'ates that the difficulty is in the seed-growing, and not in the root culture. His remedy is to cut out the central umbel, in seed-growing, and thus distribute the sap in to the lateral ones, when a healthy seed is produced. In this way, "fingers and toes" never disturb him. In using the seed of the central and large umbels, he always gets the deformed roots.—*Prairie Farmer*.

Communications.

(To the Editor of the Canadian Agriculturist.)

SIR,—In the year 1849 I visited the farm of the late John Delafield Esqr. situated on the North-Eastern border of Seneca Lake, one of the most beautiful and the largest of the Lakes of Western New York. For order and systematic arrangement in the house and in the field, this stood first among the farms of the State.

A set of rules was uniform'y shown to laborers before they were indentured, and to which they were required to subscribe. They were somewhat similar to those given by Loudon, and were conspicuously hung up in the cow-house, the stable, and the barn, A tool room, simple as it may seem, is too seldom seen among farm buildings; here it was a reality, and contained a place for every tool and every tool in its place. Each laborer had his own spade and shovel, pitch-fork and scythe, of which he was expected to be proud, because if they were net "his brave

associates" they were at least " the partners of his toil."

A plan of the farm was kept by its proprietor having its field divisions subsidiary to an accurate registration of rotation of crops, whether of four. five, or seven years. The treatment a field had undergone could thus be seen at a glance, its prospective treatment kept before the view, and the success or its opposite, of its experimental pa ch eavily noted; for the latter was an important object at the Oak'ands and afforded much scope for intellectual enjoyment by the investigation of the results of the application of composts and artificial manures.

Numerous specimens of spear and arrow heads used by the Indian tribes have been turned up by the plough in the locality under notice. But the geological features of the neighbourhood are much more interesting. In the list given below there are a few minerals, some unstratified rocks, and several fossils. These were all collected on the farm, and are now deposited in the museum of the New York State Agricultural Society.

"In crossing a heath" says Paley "suppose I pitch ed my foot against a stone, and never asked how the stone came to be there; I might possibly answer that for anything I know to the contrary, it had lain there forever: nor would it perhaps be very easy to show the absurdity of this answer." This reasoning the science of geology readily confutes. Many of the specimens enumerated below contain the petrified remains of fo-sil animals, and these must have lived anterior to the formation of the rocks in which they are found.

Different rock formations present themselves in the County of Seneca. In its northern part we find the Occordage salt group of New York geologists, deeply covered with alluvium, and corriferous limestone, distinguished from that of Onondaga by the absence of crinoidal columns. The soil covering these rocks is clayey, but in the neighbourhood of the Oaklands is of a more or less loamy character, as it is more or less mixed with the northern drift. It may also be denominated calcareous. from containing lime liberated by the constant disintegration of fragments of the rock.

The Marcellous shale and the Hamilton group occupy a large portion of the County. These c ntain many fossils and produce a calcareous so l. Next come the Tully limestone, Genesee slate and shales of the Portage group.

The groups of rocks here enumerated belong to the New York system, which is analogous to the Silurian system of Murchison, equivalent to the Transition series of Werner, and anterior to the old rcd sandstone and carboniferous periods.

The following list is in the order in which the

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specimens are an anged in their case. It may appear dry to some of our young farmers, but it was collected during the ordinary vecations of a farm laborer's life, and moved a valuable source of recleation after his daily toil.

Those named more than once are of different varieties.

1st Shelf — Limestone, feldspar, silex, greenston, orthis in slate, quartz, tentaculites rocstone, or this centrilineata [Hudson river group].

2nd Shelf-Granite. ambronychia, trilohite, slate with encripite, [Hudson river group] orthis, calymene senaris, tail of trilobite.

3rd Shelf.—Silex, granite, quartz. garnet in quartz. hornstone and orthis, horn-blende hydraulic lime with sulph te of magnesia, micaceous quartz, cyathophyllum basaltiforme, encrinite.

. 4th Shelf—Conglomerate, feldspar, augite, pearl spar in linestone, pleuro omaria, cyathophyllum and attypa. • nerin-l c lumns and rings.

The ast are called Entrochi, or wheel stones, and in the Northern part of England retain the name of St. Cuthbert's beads.

> "On a rock by Lindisfarn Saint Cuthb rt sits and toils to frame The sea-born beads that bear his name." MARMION.

5th Shelf.—Siliceous limestone with encruites, sandstone (Clin on group) with atraypa hemispherica, cyathophyllum strombodes, favosites polymorpha, cyathophyllum.

6th Shelf—Eucrinital limestone, hornstone, granite. limestone with orthis, micaceous quartz, orthoceræs, water lime with calc spar and fluor spar, miagara limestone with corallines, loxomena in Onondaga limestone.

7th Shelf. Granite, Hudson river sandstone with orthoceras, Onondaga limestone with crinoid 1 joints gne ss with garnet, lim-stone with shells, limestone with cyathophyllum, leptwne in sandstone.

D-scriptions and illus rations of the above fossils will be found in the Palwontology of New York by Prof ssor Hall, to which work I would refer the reader for information.

А. К.

Quebec 27th July 1855.

VIGOROUS APPLE TREES.

(To the Editor of the Agriculturist.) SEYMOUR. June, 21st 1855.

Sum-Having observed in a late Number of the Agriculturist that some one in the United States, had received a premium for the size of his apple trees. some of which measure 16 inches in circumference,

a though planted so lately, as 1849. I beg to inform you, that, to-day I assisted to measure several trees in an orchard belonging to Mr William Humphries, of the Township of Percy, in the County of Northumberland, which were planted in the Spring of 1850. We found one to measure full 17-several 16 inches A blue plum measured 16 inches. These trees were purchased from an apple-tree pedlar who stated they were grown at Toronto. They were, when planted, the usual size of Pedlar's trees, except that Mr. H. picked the smallest, considering them the most likely to thrive. Their height averages between 14 and 15 feet-the plum is over 15 feet. The branches commence between 5 and 6 feet from the ground Of course theirappearance is unusually healthy. Mr. H. has simply kept the earth well worked in green crop; and washes the trees occasionally with weak lie. The soil is a rich loam. I am troubling you with this to show how our much abused climate affects fruit trees, if the trees meet with the commonest care -They produced fruit last year; and this year are well loaded. Indeed if I did not know to the contrary, I should consider them of ten years' growth at least.

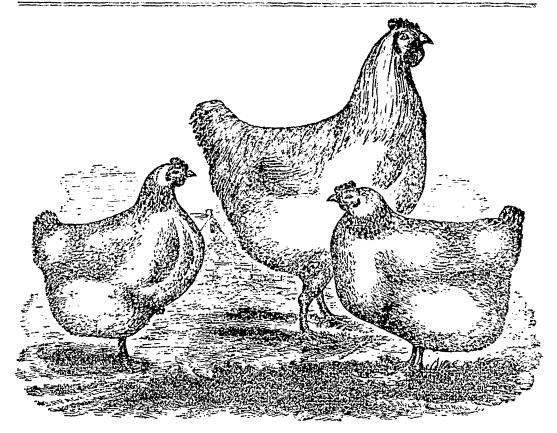
> I am, Sir, Yours very truly H. ROWED, Pres't of the Seymour Ag. Society.

The trees referred to, were probably grown at the "Toronto Nursery," so successfully managed by its enterprizing proprietor, Mr. Geo. Leslie.

We set out last spring upwards of fifty trees of Mr: Leslie's choicest varieties of apples, cherries, plums, pears, &c., and only one,—a Bolmar Washington, has failed. They were all well-formed, vigorous trees; and have put forth an abundant foliage Some of the cherry trees are bearing fruit, the present season.

We have no doubt that hardy fruit-trees will flourish as well, and bear as abundantly on Canadian soil as any where else on this continent. We have seen as fine peaches from trees growing in the neighborhood of Toronto, as we have seen in New York. Tropical plants will not of course, thrive in this latitude, but with care and good cultivation, we can grow as good fruit as any State in the Union.

While speaking of the Toronto Nursery, we may remark, that persons planting out a young orchard should be careful to purchase their trees of responsible parties. Yankee pedlers have made frequent inroads into this province with "cheap" and worthless trees,—the extent of the imposition being unknown until years afterwards. We believe Mr. Leslie does not "peddle" his trees; but pedlars have purchased occasionally from him to fill out their orders. We would advise, in all cases, to purchase from a good Nursery, direct.



BRAHMAH FOWLS.

MOUNT PLEASANT FARM. CLOCKVILLE, MADISON CO., N. Y. June 14, 1855.

My DEAR SIR:— I have your kind favour of the 9th inst., and with much pleasure send you a description of my Prize Brahmas, to accompany their portraits; and pethaps it may not be inappropriate to remark in this connection, that, last season, I kept fourteen distinct breeds of fowls, as I wished to form my own opinion as to the merits of the different variet es. Out of these fourteen varieties, I have selected the Brahmas and Black Spanish for fiture use. Mr. David Ely, of Rochester, N. Y., has very kindly sent me some eggs from his Pheasant coloured Chittegongs. These are large and beautiful birds, but I have not yet tested their excellence. Mr. Ely thinks they can hardly be excelled.

The colour of my Prize Brahmas is white, with beautifully pencilled necks, running in very regular black streaks, or marks, from their heads nearly to their shoulders; their tails, which are very short, are nearly black; they have two or three black feathers in the tip of the wing, but these do not ghew when the wing is in its natural position. They are short legged, compact, heavy fowls, with very full, plump breasts, and are very fine boned. The rooster is not so distinctly pencilled as the hens are, and his long feathers have more of a creamy shade.

The two hens weighed in November last, (being spring chicks,) 8lbs each; the rooster, a year older, 12lbs. They are very docile, are easily confined with a picket fence three feet high, and, in fact, are just the kind of fowls to become the pet of the farm yard. They are excellent layers, but I have not yet tested their table qualities, though the half-bred fowls are excellent in this respect.

The portraits sent you are very accurate, being drawn from life by J. R. Page, Esq., of Lennett, N. Y., who is unquestionably the best animal delineator in this country. They were engraved by Leadly, Miller & Mix, of Rochester, N. Y. They are very superior fowls of the breed, as may be inferred from the fact that they easily won the first prize at the last Show of the New York State Poultry Society, being in competition with the fowls of most of the oldest and best breeders in the State.

If I am successful with my chicks this season, I

will send you a pair from the prize fowls. You can then see their beauty and test their excellencies and form your own opinion of their merits.

Very respectfully Yours,

S. P. CHAPMAN.

GEO. BUCKLAND, ESQ.

[We are obliged to Mr Chapman for his kind offer, and shall be happy to test for ourselves; although we feel no inclination to impugn, in the slightest degree, either his authority or judgment. We wish Mr. Chapman as equal a measure of success with poultry, as he has achieved in Durhams.]

_____R

THE CROPS.—WHEAT FLY, &c.

(To the Editor of the Canadian Agriculturist)

DEAR SIR.—Having been abs.nt a few weeks on a tour through some of the neighbouring States I find, on my return, the July No. of the Ag iculturist in which is expressed a hope that some of your readers, in the neigbourhoods that had suffered from the fly, would give you some specific statements in reference to the extent, Δc for your next number. In sending you these statements in the damage done by the fly, which I am aware must be quite considerable, though perhaps it would be hard to determine the amount, as, I am inclined to thick, the late rains have been favourable to the injured fields of wheat, as it is to make some remarks on the different varieties of wheat that are now being sown.

When the spring opened, the prospect was that our wheat crop this year, would exceed that of any former, but as the season advanced. it was in many fields especially those on high or rolling land, observed that the wheat, instead of improving, was wasting away; this, at first, was attributed by some farm. ers, to the effects of the drought that then prevailed, but it was soon ascertained that the insect' as we sometimes call them, were thick in the joints, and many fields, that looked well in the spring, were perisbing ; but these ravages of the fly, were, almost entiryly, confined to the red chaff, white wheat, of which unfortunately, there was more sown than of any other variety, as it had long been looked upon as the best, or most productive kind; but many Farmers, in consequence of its being so liable of late years to mildew, or rust, had sown carlier varieties, such as the wild goose, or Yediteranean, white flint, blue stem, and par icularly the Son's of which, I believe, not any have suffered materially from the fly.

The blue stem grows large and hard straw, and is particularly adapted to the poorer soils; but the Soule grows the least, and, I believe, the hardest; straw, and is, perhaps, a little the earliest variety,

and, consequently, the best adapted to rich soils, and in this vicinity is sown to considerable extent.

What damage the weavel, or worm in the grain will do this year has not as yet been ascertained, but for several years past it has been on the increase; list year I had nearly two barrels of worms that went through the screen into the box, [the crop was thrashed immediately after harvest] In many parts of the United States they have ceased growing wheat in consequence, as I was told, of the rayages of the weavel, but I saw, while on my late tour, that in and Pennsylvania New Jersey they have again commenced to grow wheat, to a considerable extent, but all of the Mediterau an variety, flarge chaff and bearded,] which, I was told was not subject to being troubled by the weavel.

I remain yours very sincerely, P. FISHER.

r. risum

Port Nelson, 19th July, 1855. (To the Editor of the Agriculturist)

DEAR SIR.—Having been travelling the last few weeks through different sections of the country, and my business leading me to observe the growing crops, perhaps a short account of my travels and the prospect of the harvest, may be interesting to some of y ur readers; and if you think it worth y of a place in your interesting paper, you are at liberty to publish it.

A3 the wheat crop is the most important, I shall direct my attention chiefly to that Through this section, and eastward along the front, the winter wheat was more or less injured by the severe winter, but the fine growing summer has, in a measure made up the deficiency, and there will be a very fair crop, especially as the spring wheat is unusually heavy. Near Toronto, and northward all the way to Lake Simcoe, the wheat crop, spring and winter, looks remarkably well. I saw many fields that were far above the fences, and my curiosity led me in several instances to examine and measure the height. which I found to be over six feet. It was also very thick and stout. and, in a few instances, bad y down. Taking into account the breadth sown throughout the country, there must be an abundant harvest, far above the average.

Yet wheat is not the on'y good crop, for all kinds of grain look well, and bid fair to yield abundantly, except Iadian corn, which is backward. Meadows, generally speaking were good.

Perhaps you will allow me to say a word about my business. It we sthe introduction of the Combined Mowing and Reaping Machines, which we are manufacturing and spreading over the Province as widely as possible, that the public may judge for themselves—the only true way of judging. I am happy to say that in every instance where I have started them, they have given p rfect satisfaction. In many cases the trials were made in heavy lodged olover; and in the case, on Mr. Caspa d's farm, Youge Street, I started one upon a low piece of interval land, where the crop was as heavy as I ever saw it, and all laid down; but still I went through without any stopp ge, did the work well, far beyond my own expectations, and to the surprise of all p esent, who acknowledged they never expected to see such a machine capable of cut ing crops in that state.

Yours truly,

DANIEL MASSEY. Newcastle July 20, 1855.

Itlistelluncous. PRESERVATION OF FRUIT.

The art of preserving fruits, especially the more perishable kind, such as Raspberries, currants, cherries, &c. is not generally understood or practised as it ought to be. For the last two or three years the plan of preserving the more delicate fruits of the garden by placing them in cans or tight vessels, expelling the air and scaling them up hermetically, has been extensively practised in the States, and by several persons in this country, with the fullest success. It is found to be far better than the old plan of d-ying these fruits. By the old plan we preserve only a portion of the fruit. Dry them ever so carefully, and there escapes with the water some portion of the original aroma and flavour of the fruit. Currants and goosberries have frequently been preserv. ed by being put into bottles while green, and the bottles afterwards scaled up. Currants have been kept in this way twenty years. But it is possible to take the perfectly ripened fruit and preserve it for months and years.

In the first place prepare a suitable number of cans made, of the best tin, to hold the quantity you wish to preserve. It is best to have these cans small, holdlng only what will be eaten soon after one has been opened; for it is observable that anything that hasbeen kept preserved from decay by au arrest of na tural laws, for a long time, when restored to the influence of those laws, undergoes chemical changes with great rapidity Let those cans be, say seven or eight inches long and four or five inches in diameter, a hole being left in the cap of one end, an inch perhaps in diameter. The fruit selected should be perfectly ripe and sound, having no spots of decay upon it. The softer fruits, such as strawberries. raspberries &c., had better be crushed, as the air may then be more entirely expelled. Currants, goosberries, cherries, plums, and peaches, may be put in whole. When the cans are filled a piece of tin is to be soldered

over the hole in the end, having in it a small hole of the size to admit a pin. The canisters are then to be placed in boiling water, and so kept until the air has ceased to issue from the pin hole. This can be easily known by dropping a drop of water on the hole; if it bubble, then the air is still issuing from the canister; if it does not bubble then the process is complete, and a drop of solder on this hole hermetically scals it. If these canisters be now kept in a cool place the fruit will have all the freshness at the end of a year's time that it had when put up.

Almost every family in the summer and fall make what they call their preserves. To do this an amount of sugar is used, equal in weight to the fruit to be preserved. A day's boiling, skimming and packing, and the thing is done for the time But at sundry times afterwards, unless the luck is unusual, the preserves are "working," and the boiling and skimming has to be gone over again.

Now at an expense a trifle only greater than that of making the "preserves., of one year, a stock of conisters is obtained that will last many years, and in which fruit, with no more trouble, can be preserved with all its unchanged original flavour upon it; and this too, when the work is well done, requiring no subsequent operation.

The following recipe is highly spoken of by those who have tried it. The principle is much the same as that already recommended:

A lacy set ds us the following recipe for p eserving fruit through the year,-or a dozen years-with the flavour as rich as if plucked from the stem today. In mid April in southern Ohio, she feasted on fiesh peaches, cherries plums, pears, &c., preserved in this manner, rendering the luscious peach and fragrant berry, eaten simply with cream and sugar, far preferable to the usual indigestible preparation of fruit cooked so hard in sugar that it is impossible, from the taste to name it. The fixed air removed, and external air excluded, the most perishable substuce will remain unchanged indefinitely. With an air pump fruit may be preserved whole; but here is a process every one can follow :- Prepare your fruit for cating ; remove the stone and pare it if necessary, then, in a close vessel, with water to keep it f rom burning, over the fire-or, which is better without water in an oven-give it a scalding heat, which does not cook it, or injure the flavor ; then, filling a jar or jug, stop it close or seal it. Keep in a diy, cool place. This labour once performed, you have a desert always ready - Ohio Farmer.

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RASPBERRY VINEGAR.— To every pint of vinegar put three pints of ra-pherries Let them lie together two or three days; then mash them up and put them is a hag to strain. To every i int, when strained, put a pound of clushed sugar Boil in twenty minutes and skim it. Bottle it when cold.

INFORMATION FOR INTENDING EMIGRANTS.

INFORMATION FOR INTENDING EMIGRANTS OF ALL CLASSES TO UPPER CANADA. By FREDERICK WIDDER. Esq., Commissioner of the Canada Company. Toronto: Thompson., & Co., 1855.

This is a fourth edition, revised and much extended of a very useful publication ; ten thousand copies of previous editions having been circulated in the United Kiegdom, besides a German edition of two thousand copies. In this small pamphlet a vast deal of the most recent and reliable information is brought together in a convenient form, adapted to the wants of intending Emi, rants of all classes It is in short just such a manual or directory as those who are looking for a home in our shores required, and its extensive ci culation in Europe, under the sanction of so respectable and influential a body as the CAN-ADA COMPANY, cannot fail in being beneficial to the country. It would be well if emigrants had always so trus worthy a guide as MR. WIDDER, whose scrupulous exactness and painstaking, evinced in the character and arrangement of so large a body of facts, are : like creditable to his judgm nt and indus try. The free and extensive circulation of information of this kind is one of several ways in which the Company have benefitted Canada. We require no puffing, no arts of the time, to draw attention to the obvious and substantial advantage, which this coun try offers to capital and industry. All that is needed is an honest statement of indsign table facts, and this Mr. Walder has done in a business like and straightfors and manner. We make room for the following extracts from the introduction to the prerent edition, although the information is of course our own people : -

circumstances has caused a most extraordinary must be supplied, and can well pay for their wants. change in the relative position of everything. The Such has been the effect upon the cities of New price of land, of labour, of provisions,-in fact, of everything, has advanced. The inducing causes have, no doubt, been most materially the introduc- causes, be affected in a like manner, in the towns and tion of railroads,-the demand for labour arising ports; whilst farm lands will, in every manner, be from them,-the large amount of money disbursed for the works, and also brought to this Province for investment,-together with the high prices obtained for the past two years' harve ts; to which must be added the large emigration from Europe, and of settlers from the United States, seeking this Province as their adopted home.

"These events continued to stimulate great progress in our affairs, until the effects of the Russian war acted upon the money market in England, and were more deeply felt in Canada, superinduced upon the very large importations of goods from Europe and the United State, and the great depreciation in the price of lumber.

"A check was liven to our Railway Works-and remittances for investments became limited. No monetary crisis, however, arose from these occurrences-they merely caused a suspension in our rapid and water communications.

advancement. At the same time, the wealthy condition of the farmers, and the great demand for produce, advanced the prices of their productions, and that of wild land, and of all real estate, and affirmed the substantial position which the Province has acquired. It may be said we are simply pausing for breath, after the recent excitement, and that we are about recruiting ourselves for a new start in our career ; which it is believed will be a more permanent and important one, in its results of positive progress and prosperity, than has hitherto been witnessed. But this state of transition throws embarrassment around the desire to give perfect data and unchangeable prices, such as is desired in a work of this description ; for a continuance of the war, the scarcity of money, and the suspension of our public works, or bad harvests, may seriou-ly affect the data given ; on the other hand, a contrary position of those affairs, would place this Province in a most extraordinary state of prosperity. Nor should it be forgotten, that we are about reaping the advantages of an extended commerce with the United States, through the Reciprocity Act, which cannot fail to be of great importance to us.

"The views adopted in Europe, upon railroads, are not applicable to this country. There, railroads are the consequence of the requirements for quick and cheap conveyance of a dense population, and of its manufactures and productions; here, railroads are self-creative of support, by raising population,--through opening up a new and fertile country, which transmits its productions, in return for the supplies of its wants.

"The effects of railroads upon the prices of produce, will probably be, to equalise them throughout the Province; whilst it can scarcely be expected they will reduce the cost of living in the towns and ports where the railroads have their termini and depots for exportation and importation. The requisite iatended for Europ-aas, or even Americans, more than 'shipping, the great trade and commerce, combined with the docks for ship-building, and manufactories, that will necessarily arise, will induce a consequent "During the last three years, a combination of increased permanent and transient population, who York and Boston, and other places similarly situated. As to real estate, it must, from the same greatly benefited by railroads. About five years since, the price per acre for lands in the Genesee county, and other parts of the State of New York, was from $\pounds 12 10s$. to $\pounds 18 10s$; they are now selling at $\pounds 18$ to $\pounds 25$ per acre, including the ordinary farm-buildings; these are cleared lands. but the value of the timber would have been greater than the cost of clearing. The prices of wild lends, in Upper Canada, have undergone a very great advance, during the past three years; but, circumstanced as this Prov nce is, and considering its comparitive small amount of population, it will not, perhaps, be taking a too sanguine view, if we anticipate, that we shall, in a year or two, approach the prices now paid in the State of New York, for lands in this section of the Province enjoying an equally fertile soil, and having the like facilities of railroad

"It has been well observed by Professor Johnson, in a recent article of the Journal of the Royal Agricultural Society of England, on the relations of Geology to Agriculture in North America, that the Peninsula of Upper Canada, encircled by Lakes Ontario, Erie, and Huron, has a much wider expansion of those happily combined soils, which are so eminently distinguished for the growth of the finest quality of wheat, in large abundance, than even the far-famed Genesce District of the neighbouring State of New York.

"In this extensive range of country, (bounded by the great Lakes,) there is absolutely no land that is naturally sterile; and, probably, there is no other tract of equal area on the North American Continent, so well adapted, from cheumstances of soil and climate, to the general purposes of agriculture. This interesting region has already been materially benefited by the opening of the Great Western, and the Ontario, Simcoe, and Huron Railways; and is rapidly settling by a persevering and industrious class of people. It will in a few years be the Gar den of Canada, if not of North America.

"It is considered that the altered position of this Province will much attract the attention of a class of people possessed of considerable means; who will make Canada a home for themselves and families. With this view, some pains has been bestowed upon the educational matter,—procured from t e heads of the various departments,—and which cannot fail to be of interest to those families contemplating settlement in Canada."

FISH FOR FOOD.

There is much nourishment in fish, little less than in butcher's meat, weight for weight; and in effect ! it may be more nourishing, considering that, from its softer fibre, fish is more easily digested. Moreover, I find there is in fish a substance which does not exist in the flesh of land animals, viz., iodinea substance which may have a beneficial effect on | the health, and tend to prevent the production of scrofulous and tuberculous disease, the latter in the form of pulmonary consumption, one of the most eruel and fatal with which civilized society, and the highly educated and refined, are afflicted. Comparative trials prove that, in the majority of fish, the proportion of solid matter-that is, the matter which remains after perfect desiccation, or the expulsion of the aqueous part-is little inferior to that of the several kinds of butcher's meat, game or poultry. And if we give our attention to classes of peopleclassed as to the quality of food they principally subsist on-we find that the icthyophagous class are especially strong, healthy and prolific. In no class than that of fishers do we see larger families, handsomer women, or more robust and active men, or a greater exemption from the maladies just alladed to .- Dr. Dary's Angler and his Friend.

Sone TEATS -- volasses is the very best application to heal the cracks in the teats of mileb cows or the bites of the surking call. Wash the udder with coad water before applying the molasses. Nothing I have ever tried curves so quickly. A kicking cow is frquently curved by the same remedy, provided the milke, is carcial to keep short finger nails.

CISTERN BUILDING.

A good Cistern is an essential appendage to every Farm Hone. The mode of building is various. We find the following directions in an exchange paper :-

In the first plue strike a circle about 7 feet in diameter, and excavate to the death \cdot from 6 to 10 inches, leaving the surface level, then within this strike another circle some 5% or 6 feet in duan der, and excavate to the proper depth leaving the diameter at the bottom somewhat less than the top; in sking the sides as smooth as possible to receive the cement.

Now with 300 or 400 of what is termed hard bricks, form an arch or dome over the eistern ins cad of covering in the old way with timber ; this can be done by laying down the first course of bricks end to end on a layer of mortar that is somewhat thicker at the outer than the inner edge, so as to elevate the outer edges a little ; now lay the second course with very little mort r between the inn r (dg s of the bricks, and considerable between the outer edges so that the latter course shall have a greater inclination than the form r by about balf an inch; continue on in this way until the bricks have at ained an inclination of about 45 degrees ; now reverse the order of laying them, putting very little mort r be ween the outer, and considerable between the inner edg s, until they come to he level; the thing must be so managed as to leave an ap rture at the top sufficiently large to adm t a man to clean the civera. (about +1 to 20 inches.) The month should be somewhat elevated, to as to bank up sufficiently to place the dome below the action of the frost, the doine must be covered with rement both inside and outside.

My cstern was plastered on the bink, which I think preferable when the earth is sufficiently tenacious; one barrel of cement line was us d. Froporto of or first coat -2 parts rather clars-said, and 1 of of time; for second coat, equal parts of line and time sand. My cistern has been bout 6 years, and there is no reason apparent why it should not endure for ages. A waste pipe should be inserted near the top, to discharge sur lus wa ec.

To DESTROY CANADA THIS pondent of the Rural New THISTLES -A Corres-Yo.k.r says .- It is well known to many farmers that plowing will destroy t an ida this the though there is some difference in the mode of operation. Most generally the ground is plowed four or five tim s during the summer, which will nearly or quite exterminate them, but my treatment of these custom is 4 think better will. Five years sg I pic aset a form on which were a number of pair es of Caonda th stles. On one field of six acres they were from too to four teet high, and so truch that n-isser gress nor anything else coust grow with them. About the end of Jane I harrowed d wn the this "s and , I wed them under and the first week in July plowed the field again and sowed to buck wheat.—Ha vested a good crop and some thist es; thras e the buck wheat on the lot, and burnt the straw and chaff. I treated this tield in like manner to three years in succession, s edin; down w th clover and timothy the 1 st year, and have completely e adicated the bistles By sowing the buckwheat, the famour will not only be remuberated f r h s labour, but there is no kind of crop so good as this to free he hand r in dasies, this lies, and other n xious weeds. To subdue patches growing in co ners of fences and a on highways, mow them off in the old of the moon (Datch rule, in July and August. I have tried this ride and have ext.rminated many patches in this way.

Farmer Pennywise and Farmer Poundwise.

There is a Farmer Pennywise with whom I am acquainted, who will occasionally raise a good befer, steer or colt for 1 is nei hbors who keep good breeds, and he is by accident occasionally benefitted thereby When he has such an animal in his flock, he is ap parently users y until it is disposed of ; and after selling such an animal as a heifer for instance you may hear so mething like the following.

"Well, my dear. I have sold the big heifer for fifteen do lars; is that not a good price for a heifer of her age?"

"Good price indeed!" his wife would reply. "you had better have sold two of them cat humand, crooked legged, scrawny things that you always keep for cows. The reason that our cattle always look so had, and that we sell so lit 1- butter and cheese is, that you always sell the best heiters."

Poor wom in! I p ty her; her pr'de and ambition are injur d, her children and self in rags, because her native industry and economy are cramped by the foolise and niggately policy of her husband.

The picture is reversed in farmer Pound vise, who always k eps his best animals until full grown; then selecting his best breeders for his own use, hsells the rest. If he had a good foung horse, he will say that he will make a line team horse; a mare she will make 4 fine broad mare.

"And what will you do with that ?" says his neighbor, pointing to an ordinary animal.

"Between you and I," says he, "I shall sell that colt the first chance. Such an animal spoils he looks of all the rest and will not pay for his k-eping."

Thus he will sell his poor steers, heifers, sheep. and pigs at the first offer. If not sold, he would fatten those that would pay the expense, and give away those that would not. Not pay the expense of fattening! Are there are cattle, sheep or hozs that will not ray the expense of fattening?—Readers, ta e some of each—the real Pharaoh breed—feed th m until fat; keep an exact account of the expen-Ìn res, and you can answer this question yourse f. In this way Fum r Poundwise always has valuable stock ; his steers are ready sale, and comma d a good price; his horses are the best in the neighborhood. and the first to be looked at by purchasers. So with all the animals he raises. Pennywise, on the contrary, is thron ed with an ill-shaped, worthless stock, that none will buy or pay the expense of raising; which are continually eating out his substance and making no return. Thus Pennywise drags on a miscrable life in the road to ruin, while Pound size moves easily and happily along in the road to wealth .- Maine Farmer.

TOMATO PRE-ERVE-.—Take the round yellow variety as soon as ripe, scald and pel; then to seven pounds of tomatoes add seven pounds of white sugar, and let them stand over night. Take the tomatoes out of the suger as d boil the syrup, removing the scum: - Put in the tomators, and boil gently fifteen or twenty minutes; remove the fruit again and boil until the syrup trickens. On cooling put the fruit into jars and pour the syrup over it, and add a few slices of 1 mou to each jar, and you will have something to pleas the taste of the most fastidious.

To BLEACH STRAW —Straw may be bleach d by putting it is a cask into which a few brimstone matches are placed lighted. The same effect may be produced by d pping the straw into chloride of time disolved in water.

WASHING DISHES.

In clearing the table se, ape all the plates as clean and set them in regular rank and file around the borders of the sisk or table. Put the knives and forks in a mug or pitcher, with the water just up to the handles. Arrange the cups and saucers near the dish-tub, with the spoons and all silver articles in a trav together. Place the wooden dishes by themselves. Have two wooden dish-tubs, painted on the outside, but not on the inside. Some people use milk pans or bread trays for washing dishes; but this is decidedly filthy. The dish-tub should be used for no other than its appropriate purpose, and there should be one for washing the disbes and one for rissing them. Some people fill the dish-tub with water when they begin, and cool it to the possibility of holding their hands in it, so before they are half through it is covered with a coat of grease and unfit to wash a pig's trough.

It is better to take a little water at first, and make a good suds, and keep adding as it cools, both hot water and soap. Wash the spoors, and silver articles, of all kinds, and glass, before anything else is put into the water, and wipe them on a towel which is never used for anything else. Next in order come the covers and such earthen articles as are comparatively clean. Then the knives, which should have been previously wiped out of the water in which they were first immersed. Then plates, and meat and vegetable dishes. By this time an entire new water is needed, for tin and iron vestels, and especially wooden ones need a water as clean as for silver. Every towel should be thoroughly washed in suds and scalded after being once used, and the dish-tubs should go through the same process. And I have washed dishes after this fashion weeks and months and year; without a trace of the "menial labours upon my hands!

All the articles in the castor, and the salt-cellars should be washed and filled anew once a-week. And where oil lamps are used, they should be thoroughly cleansed as often as once a-month, else the oil forms a glue upon the inside and upon the wick that prevents a clear light. Milk-pans and cream-pots, and every thing in which milk is set, should be thoroughly scalded every morning, and nothing but milk should ever soil their bright faces.

Tea pots and coffee-pots should be rin ed in clear hot water and dried, every using. Some rub all the silver in daily use with soft deer-sl-in, after washing, and this keeps it very bright. I have a great aversion to scouring knives, and never touch brick dust if I can help it; but if their brightness depends on me, I prefer to rub them three times a day rather than once, for it is less labour, and they last longer.

MINNIE MYRTLE.

NUTRIMENT OF ONIONS.—Prof. Job nson gives his opinion in favor of onions as a very nutritious vegetable, and for laboring men with strong directive powers quite he lthy. It is not metely as a relish that onions are used so largely by many prople, but because they give strength as well as a satisfaction of appetite. Prof. Johnson ranks onio is in point of nutriment with peas.

IT CAN'T BE HELPED.

"Can't be helped." is one of the thousand convenient phrases, with which men cheat and deceive themselves. It is one on which the helpless and idle take refuge us the last and only comfort-it can't be helped. Your energetic man is for helping everything. If he sees an evil, and clearly discerns its cause, he is for taking steps forthwith to remove it He busies himself with ways and means, devises practical plans and methods, and will not let the world rest until he has done something in a remedial way. The indolent man spares himself the trouble. He will not budge. To sits with I is arms folded, and is always ready with his unvarying observation, "It can't be helped," as much as to say- If it is, it sught to be, and we need not be-stir ourselves to aher it," Wash your face you dirty little school boy: you are vile, and repulsive, and vicious, by reason of your neglect of cleanhness. "It can't be helped." ar away your refuse, sweep your streets, cleanse your drains and gutters, purify your atmosphere, you indolent corporations, for the cholera is coming "It can't be helped!" Equcate your children, train them up in virtuous habits, teach them to be industrious, obedient, frugal and thoughtful, you thoughtless communities, for they are now growing up vicious, ignorant and careless, a source of future peril to the nation. "It can't be helped." But it can be helped. Every evil can be abated, every muisuree got rid of, every abomination swept away; though this will never be done by the "Can't-be-helped" people. Man is not helpless, but can both help himself and help others. He sufficient time has elapsed to demonstrate that such can act individually and unitedly against wrong and of all in the way of such beneficial action, is the feeling and disposition out of which arises the mis rable, and idle ejaculation of "It can't be helped."

CHEAP SOAP.

A correspondent of the "Southern Banner" gives the following rec pe for soap-making, and adds, that it would be worth a thousa d pounds in the hands of a selfish person, and the world would have to unite the purse string to get at it, but here it is free gra is:

Take six pounds of potash	-	-	-	-	-	75
Four poinds of lard						
One-fourth pound of rosin	-	-	-	-	-	25

All amounting to - - - - -- \$1.50

Beat up the rosin, mix all tog-ther well, and set aside for five days, then put the whole into a ten gallon cask of warm water and stir twice a day for ten days, at the expiration of which time, or sooner, you will have one hundred pounds of excellent soap for one dollar and a half.

HOUSEHOLD MEASURES.

As all families are not provided with scales and weights referring to ingredients in common use by every housewife, the following may be useful:--

Wheat flour, one pound is one quart.

Indian meal, one pound two ounces is one quart. Butter, when soft, one pound one ounce is one quart.

Loa' sugar, one pound is one quart.

White sugar, powdered, one pound one ounce is one quart.

Best brown sugar, one pound two ounces is one quart.

Eggs, average size, ten eggs are one pound.

Sixteen large table-spoonfuls are half a pint, eight are one gill, four half a gill, &c.

NUTRITIVE QUALITIES OF MILK .--- In the Medical Convention, lately in session at Philadelphia, Dr. N. S. Davis, of Chicago, p esented a report on the nutritive qualities of milk, and also on the question whether there is not some mode by which the nutritive constituents of milk can be preserved in their purity and sweetness, and furnished to the inhabitof cities in such quantities as to superse le the present defective and often unwholesome modes of sup! The report says that when railroads were ply. opened into the interior of the country it was said that milk would be furnished to the residents of cities in the purity that was found on farms, but a is not the case. The conveyance of the milk from evil. Lie has the power to abate and eventually the farm to the cars, the transit on the railway, and to uproot them. But, alas! the greatest obstacle the time lost in its delivery through at the city, it was clearly shown, had the effect of making it unfit for the nourishment of a child. During the past half century, experiments had been made with a view of preserving milk in its pure state; yet it was but recently that a discovery was made, by a gentleman in New York, which was to evaporate the water and mix with it white sugar, which rendered it what is termed solidified milk. In his practice he had used this improved milk for the nourishment of infants with the most gratifying results, and after having kept it for three months; and he knew of its having been kept twelve months without any it jury to its qualities.

> SIMPLE REMEDIES-Cott n wool, wet with sweet oil and paregoric, relieves the ear ache ve y so n.

> Blok or . ren tea se ped in oili g milk and sweet ning with loaf sug r, is excel at for the dyse tery.

> A good quantity of old cheese is one of the best t ings o en when di tressed be eating too much trui, or oppressed with any kind of food Physicians have ziven it in cases . f great daug r.

> Black+erries are extremely use uli case- of dysentory to eat the b rries sively lealtly. To a made of the roots and leaves is ver benefic al, and a syrup male of the berries is still better.

> Whortleberries, commonaly cled 'uckleberies, dried, are a useful med cine for children. M de into caland sweetened, they are very beneficial when the sy se s is in a restricted state, and the d gestive

COURTESIES OF LIFE.-In our intercourse one with another, there are many little ways which we may assume without imputation of littleness or foppishassume write a cordial bow, are mestices of man-ners. A smile, a cordial bow, are mestness of man-ner in addressing a friend or more especially a stranger, costs box a slight effort, and generally will ensure a corresponding pleasantness, even from the ill-tempered. This would be but a melancholy world if all the courtesies of life were disregarded and a sulky, mistaken kind of straightforwardness adopted. | powers out of order.

THE HIVE AND HONEY BEE. The Rev. L. S. Langstroth a writer of some note on Bees, says -Many p roots have not the slightest idea that iv ything may be seen that takes place in a bechive But hives have for many years been in use, contain-ing only one large comb, enclosed on both sides b glass. This hives are darkened by shutters, and when opened, the queen is exposed to observation as well as a 1 the other bees. Wi bin the last two years, I have discovered that with proper precautions, colonies can be made to work in observing hives, w thout shutters, and exposed continually to made tail right of day; so that observations may be made tail right of day; so that observations may be the ordinary operations of the bees. By the aid of such hiv s. some of the most intelligent citizens of Philadelphia have seen in my Apiary. the queen bee depositing her eggs is the cells, and constantly sur rounded by an affectionate circle of her devoted children. They have also witnessed, with astonishmuct and delight, all the steps in the mysterious pro-Cess of rai-ing queens from eggs w ich with the cr dinary development, would have produced only the common bees for more than three months, there was not a day in which some of my colonies were not engaged in making new queens to supply the place of hose taken from them, and I had the pleasure of exhibiting all the facts to bee keepe s who never b tore f it willing o credit them As all my hives are so made that each comb can 'e taken out, and examined at pleasure, those who use them. can obtain from t em all the information which they need, and, are no longer forced to take any thing upon trust.

Loss of Stock in Ohio.—The losses of sheep and cattle from tarvation have been very extensive throughout the northeast in section of Ohio Many a flock-matter has lost from 200 to 500 sheep, while dairymen ave lost from 30 to 40 coase each, in somlocaliales. To a number of counties the last search very general, and it will require years for so entarm ers to recover from the damage sustained in consequence of the severe drough of last season, and the hard winter which followed. It is estimated that in the section named—say one fourth of the State full two thirds of the sheep, and one half the cattle have died during the winter, a loss which is very large in the aggregate, and must greatly affect the interestof the latimers, and the prosperity of that portion of the State.

HEDGE OR LIVE FENCE.-Efforts to establish a permanent hedge of various plants in Eugland with so much success, have fulled in the dry, hot climate of the United States. Numerous plants, indigenous to our country, have also been tried with no better suc-cess, until Professor J. B. Turner, of Illinois College, introduced the Osage orange from the wilds of Texas. His success has induced other farmers upon the western prairies, and al o in the timbered portions of the country to make trial of this plant for hedging pur-poses. These experiments have establi-hed beyond a doubt the perfect adaptation of this plant to the purpose of live-fence in our climate. Owing to its pecu-liar growth, both root and branch. it is not affected by the hest and drought of our summers, as the tap rooted plants are which form the beautiful hedges of Eng'and. A tew weeks since the editor of the Louisv II: Journal visited the farm of Mr. Jam's McGrew, of Montgome y county. Ohio, for the purpose of examining a most perfect specimen of this hedge. The plants have been set four years, and the hedge is now so compact and broad at the ground that neither fowl nor pigs can pass it, and so high toat the most unruly animal would not attempt to jump it.

THE BEVERAGES WE INFUSE.-Infused beverages are druck hot, fermented drinks are usually taken cold The love of such warm drinks prevairs almost universally. In froze - Labrador a d snowy Russia, the climate m ght account for this prediction; but the craving is really de-per s ated. The practice prevale equally in tropical and in arctic regions. In Central America, the Indian of native bloo, and the ' roote of mixed Ea opean race indulg - alike in their ancient chocolate. In ou hern America the t-a of Paraguay is an almost universal b verage. The native North-Ameican tribes have their An Jachian tea their Osw-go tea their Labrador t a, and many others. From Florida to G-orgia in the United States, and all over the West India islands, the natural is d European races sp their coffee; while over the Northern States of the Union, and in the the British provinces, the tea of China is in constant nd daily use All Europe, too, has chosen its prevailing beverage. Spain and Italy delight in choco-Lue ; France and Germany and Sweden and Trrkey, in sollee; Russia, Holland, and England in tea; while poor Ireland makes its warm drink of the husks of the cocoa, the retuse of the chocolate mills of Italy a d spain All Asia cels the sume want and in different ways ba long gratifi d it. Coffee, indigeous in Arabia or the adjoining countries, has followed the banner of the prophet, wherever in Asia or Africa his false faith has triumphed Tes, a parive of China, has spread spontaneously over the h ll country of the Himalayas, the table lands of Tartary and the plains of Siberia-has climbed the Altais, overspread all Russia, and is equally despotic in Moscow as in St Pet rsburg. In Sunatr., the coffee leaf yields the avourite tea of the dark skinned p, ulation, while Central Africa boa-ts of he Aby-smian chaat as the migenous warm drink of its Ethiopian people Everywhere unintoxicating and nonnarcotic b.v. ages are in general use, among tilbes of every colour, beneath every sun, and every condition of lafe. The custom, ther fore, must meet so is quaiver-Sil want of our poor human nature Professor Johnst n's Chemist y of Common Life.

TUNNEL UNDER THE NIAGALA RIVER — William Wallace the distinguishel railroad eigiller, who his been promue t in railroad enterprises in Western New York, has su mitt dia project for lunnelig the Niagara at Budalo, for railroad and o her purposes. The work is a feasible one, and in view of the increased committed and general businessible one, and in view of the increased committed and general businessible one and in view of the increased committed and general businessible one and the Unit distance and Can da, an important one. It is proposed to be at the trimination of the Buffalo and Brant'old railwal. In bugland railroad tubered and Brant'old railwal. In bugdiad railroad tubered is a matter of common occurre ce. The Kitsby Finnel, on the London and Braniagham railway, is over a mile and half in length. There are eight tunnels on the anche ter and Leeds railway, in a distance of sixty miles, one of these at the submit, being ne mile and five eighths in length. On the Loverpool and Wanchester r ilload there are three tunnels; one of them is six housand ix hundred feet long. The Abbot Cl ff tunnel is six thousand six hundred and hund there is a tunnel th ong of Blackstone ledge three miles long.

The Power of Love.—Love is the spring and spirit of the universe. Thank God, it is notwith-8 uning our depravity, the strongest force in our matare. It greaters us into life; in its warm car sees we spend the childhood of our days, and through each meessive period to the grave, it appears to us in a thou-and any 1 forms, southing us with its tender wo d., blessing us with its gifts, and hightening our path with its similes.—Literary Journal.

INFLUENCE OF ARDENT SPIRITS .- In the ardour of this cru-ade against fermented liquors, statements have been made by over z-alous champions of total abstinence, watch are not qu te borne out by chemi cal and physiological researches. Ardent spirits of every variety are little else than alcohol diluted with a large proportion of water, and flavoured with a minute admixture of volatile oil, the precise action of which upon the system is not knowin. They contain none, there'ore, of the common forms of nutri tive matter which exis in our usual varieties of ani mal and vegetable food. It does not follow from this, how ver, as some have too broady alleged, that they are incapable of serving any useful parnose in the animal economy. On the contrary, it is a cor-tained of ardent spirits—First, 'I hat they directly warm the body and by the changes they undergo in the blood, supply a portion of that carbonic acid and watery vapour which, as a necessity of life, are constantly being given off by the lungs. They so far, therefore, supply the place of food, of the fat and starch for example, which we usually eat. II-nce a schnapps, in Germany, with a slice of lean dried meat, make a mixture like that of the starch and gluten in our bread, which is capable of feeding the body. So we either add sugar to milk, or take spirits a ong with it (old men's milk), for the purpose of adjusting the proportious of the ingredients more suitably to the constitution or to the circumstances in which it they are wanted, put them in a heap or basket, and the constitution of to the circumstances in which it is to be consumed. Second, That they diminish the absolute amount of matter usually given off by the lungs and kidneys. They thus lessen, as tea and coffee do, the natural wayte of the fat and tissues, and they necessary y diminish, in an equal degree, the quantity of ordinary food which is necessary to k-ep up the weight of the body. In other words, they have the property of making a given weight of food go further in sustaining the bulk of the body. And, in addition to the saving of material thus, effected, tole butter daily as could be produced by half a doz-they ease and lighten the labour of the digestive or en common cows. Inquisition got so high on the subgans, which, when the stomach is weak, is often a ject at last, that the lady has let out the secret, and most valuable result. Hence, fermented liquors, if in its travels it has reached us. She told a friend otherwise suitable to the constitution, exercise a that her cow was only a common cow, and lid not beneficial i fluence upon old people, and other weak- produce any butter, but yielded milk enough in ly persons waose fat and tissues have begun to wasts, which to re-churn any quantity of strong Goshen butin whom the process of digestion, that is, does not ter, which she buys by wholesale at the groceries, and replace the tissues as fast as they naturally waste.— converts by the said re-churning in new milk, to Chemistry of Common Life.

CLARIFYING MAPLE SUGAR.-A Vermont farmer says the following is a sure method of clarifying maple sugar. Filter all your sap before boiling, through a hopper or box of sand, which will take out, not only the stains derived from leaves, tubs, crumbs of bark, but all other coloring matter that can prevent the sugar from being pure white. We doubt whether sand can remove the coloring matter of the sugar, but the method is simple, and it will cost little to try it.

ENGLISH GUNPOWDER .- On first straying amidst the Syrian hills with a guu in my hand, I was puzied by the manner in which I was frequently accosted by the people. Some times a man would run towards me, and suspecting very naturally that I understood a little Arabic, he would carnestly repeat the one word baroot [gunpowder). Imagining he asked if I came from Berrout, I answered etwa (yes), which, of course, caused him to expect he was about to receive some of the coveted commodity. There are no words that one sconer learns in Syria than baroot and ush [powder and shot], and even the smallest quantity of our finely-ground "canister" is much desired to prime the firelocks, the Arab powder being generally as large, and sometimes larger in the grain than wheat .- Journal of Eastern Travel in Hogg's In- level tea-spoonful of soda, melted in a little warm structor.

WASHING WINDOWS --- A correspondent of the American Agriculturist gives the following improved mode of washing windows, which although not new to us, may be valuable to many of our readers :-

"The nicest article for washing windows is deerskin, as no particles come off to adhere to the glass and make it look as if washed with feathers. There is no need of any thing larger than a hand basin for washing windows. The great splashing some people make in the exercise of their art is entirely useless, and is, moreover deleterious When the water is permitted to run down in great quantities upon the giass, it dissolves the putty and soon loo-ens the panes from their setting and also stains the glass. Two pieces of nice wash leather and a bowl of suds are all that a e necessary. Wipe the glass first with the wet cloth or leather, and after it has become dry. with the clean cloth, and it will look clear, and far more so than if rinsed in a dozen pails of water."

TASTE OF TURNIPS IN BUTTER .- A correspondent at Philadelphia writes us that he had abandoned the use of turnips as feed for milch cows on account of the disagreeable taste imparted to the milk and butter. He met with the following casy method of removing this objection, and has practised it for five years with perfect success, both with common flat turnips and with ruta bagas :-slice the turning 12 hours before sprinkle over them a slight coating of fine salt. After they have lain in a heap 12 hours, mix them well together and give to the cows .- Country Gentleman.

RE-CHURNING BUTTER .- The neighbours of a certain lady in the Fourth District of New Orleans, have recently discovered something that has seemed a miracle, for months past. They knew the lady had but one cow, says the Crescent, and they knew also, that the lady's two little negroes peddled as much Crethat pale sweet delicacy, known as Creole butter, which always commands the highest of prices. She added also, that by this process she had made a clear profit, since June last, of twelve hundred d. Mars! One cow is not much, but one cow and Yankee ingenuity together are considerable. Our authority in this matter is indisputable, and the speculation is worth imitating.—Petersburgh Express.

INDIAN LIGHT BISCUIT .- A quart of Indian meal a pint of sitted wheat flour ; a very smill teaspoonful of salt; three pints of milk; four eggs.

Sift the Indian and wheat meal into a pan, and add the salt. Mix them well. Beat the whites and yolks of the eggs separately. The yolk must be beaten until very thick and smooth ; the whites to a stiff froth that will stand alone of itself. Then stir the yolks gradually. [a little at a time] into the milk Add by degrees the meal. Lastly, stir in the beaten white of egg, and give the whole a long and hard stirring. Butter a sufficient number of cups, or small deep tins-nearly fill them with the batter. Set them immediately into a bot oven, and bake them fast. Turn them out of the cups. Send them warm to table, pull them open, and eat them with butter.

They will puff up finely, if at the last you stir in a water .- Extract.

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WHITEWASH FOR OUTHOUSES AND FENCES -W. find the following in some of the agricultural pap rs. credited to the Scientifle American. Credit should have been given to 'Downing's Country Houses," from which it is taken :---

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As this is the season of the year when considerable white washing is performed, and as we have been inquired of for a good whitewashing receipt by numbers of new subser bers who have not read our receipt in a former volume, we present it again, knowing that a good story is never the worse to be twice told :-

Take a clean barrel that will hold water. Put into it half a bushel of quicklime, and slack it by pouring over it boiling water sufficient to cover it over four or five increas deep and stirring it until slacked. When quite shocked discolve it in water, and add two pounds of sulphate of zinc and one of commou salt, which may be had at any of the dinggists, and which in a low days will cause the white wash to harden on the wood-work. Add sufficient water to bring it to the consistency of thick whitewash.

To make the above wash of a pleasant cream color, add 3 lbs yellow o hre.

For fawn color, add 4 lbs. umber, 1 lb. Indian red, and 1 lb. lomblack.

For grey or stone color, add 4 lbs. raw umber, and 2 lbs. lampbtack.

The color muy be put on with a common whitewash brush and will be found much more durable than common whitewash.

FOUR SPANISH PROVERES -- What the fool does in the end, the wase man does in the beginning.--Vol taire defined a physician as an unfortune te pen leman. expected every day to perform a miracle namely, to reconcile hear h with intemperance. The most insignificiant people re the most apt to sneer a others ; they are sife from reprisals, and have no hope of sising in their own este m but in lowering their neighbours. - All vice stands upon a precipice; to engage in any sinful course is to run down the hill; if we once let loose the pr pensities of our nature we can not gather in he mins and govern them as we please, it is much easier not to begin a bad course then to stop when begun.

TO MAKE JOHNNY CAKE -Having used the follow ing receip f r making Johnny Cake, we consider it excelle t and worthy an insertion :- 1 pint meal ; 1 pint flour; 1 pint sweet milk; 2 eggs; 1/2 tea cup sugar; 2 t aspoonfuls cream tarter; 1 tea poonful sup c soda. Stir be cream tartar in the flour, and the soda in the milk Bake in tins in a quick oven. -S. S., Milan Ohio.

MOWING MACHINES VS. SCYTHES-Now let us compare a little, the two modes of cutting grass. I ay laborers, hired at \$1 per day, will probably mow in medium grass 1/5 acres to the hand; that is, it will cost \$5 or \$6 to mow 8 acres, and 25 cents (ach hand for bourding will be \$1,50 more, which, added to \$1,50 makes \$7 for mowing 8 acres. Now hire a man with a spay of horses and a machine to cut the Sacres, at 50 cts per acre, and he will cut it in a day -\$4,40, and \$1.0" more will pay their boarding. making in all \$5.00, and the grass will be spread better for curing than a man will spread it after the 5 hands, which, in the estimate, will make \$3,00 advantage to the mover. At that rate, the machine will pay for itself in 40 days' mowing, beside - saving so much hard labor .- Jos. MOSHER, in Ohio Farmer. | intimated that the next two numbers, completing the

Editorial Notices.

To CORRESPONDENTS - We regret to state that the letters of one or two correspondents, and particu arly one on the subject of unburnt Brick Houses have been m'slaid o' lost. If our friend, the writer of the last, thinks the matter of his communication of sufficient importance to reproduce it, we shall be happy to insert it next moath. Mr. Farme's communication on the subject of the dispute between the Ingersol Branch Agricultural Society, and the County of Oxford S ciety was, by n istake, not put in type until the forms were ready for press. It will appear next month. Mr. Jone's remarks on Stawberries, will receive attention in our next.

DEVON HERD BOOK.

We beg to inform our realers that a parcel of these Books are now at our office, and copies can be sent, to those who wish them, on application. The price is \$5. See the advertisement.

IMPORTATION OF SHORT HORNS INTO CANADA

We are informed that Mr. GEO. KOBSON of London, C. W., has recently purchased some very fine animals from the excellent and well known herd of Mr. L. P. CHAPMAN, of Clarkville, Madison County, N. Y. Two Heifers, Fashian 2d, and Fashi an 3d, are descendants from Mr Vali's celebr ted milking family of short horns; the " Willey" Fashion 3d, has brought a beautiful roan bull calf. Fashion 21 is a very superior milker. Mr. Robson has likewise procured from the same herd, a Bates's heifer colf Agati 2d dam imported Agati, and sired by Halton, (11552.) A'so an ther beifer calf, Duchess, (514) Dam Duchess, and sired by Halton.

It is pleasing to see most exce lent blood introduced into Canada, and we have no doubt that Mr. Robson will meet with that degree of encouragement which his erterprise deserves.—B.

JOURNAL OF TRANSACTIONS OF THE BOARD OF AGRI-CULTURE OF UPPER CA-ADA. Nos. 1 & 2 vol. 1 Toronto : Thompson & Co. 1855.

For some time past a strong desire has been expressed that the Board of Agriculture should publish periodically its transactions, incorporating therewith the Prize Essays which are annually obtained, and a condensed statement of the condition of each Agricultural Society receiving Gov-roment aid, compiled from the annual Reports, which by law, have to be prepared and sent to the Board. The two numbers already published contain a history of the Provincial Association from its commencement, the establishment of the Board, a synopsis of the various agricultural statutes, bringing these matters down to the Provincial Show at Hamilton, in 1853. It is

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first volume, will embody all matters to the termina tion of the present year, and that in future the information and papers composing the journal will be of greater and fresher interest. In compiling a work of this kind, a duty involving no inconsiderable deal of care and trouble, different opinions will obtain as to the extent in which the materials are to be abridged. A sort of medium seems to have been adoptedcomments without becomputations and the ing too lacouic so as to leave an imperfect inpression after perusal, are sufficiently dif. fuse for all practical The work purposes. is not intended to interfere with the circulation of such periodicals as the Agriculturist, most of its articles being too long, and in other re-pects unsuitable to our pages. The subscription for the year is one dollar; sufficiently low when it is considered that the annual volume will consist of not less than 640 octavo pages.—B.

This very valuable work was originally published by the Society for diffusing useful knowledge, and was written by the late lamented Rev. W. L. RHAM, a parish Clergyman in Berkshire, who was, we believe, a native of the Netherlands, and occupied in England during a period of many years a prominent position as a writer on agricultural subjects. Mr HUTTON, the indefatigable Secretary of the Bureau of Agriculture and Statistics, informs us in the preface, that the work was strongly recommended to the Bureau for re-publication in this Province, by ReBT. S. ATCHESON, E.q. "It contains a fund of information, valuable to the whole country, but especially to the Lower Province, from the similarity of the habits, character, and circumstances of the peop'e to those of the natives of Flanders,-a similarity extending in many instances, even to the soil, extent and nature of their farms. "

The work consists of seventeen chapters-one of which we were enabled by the kindness of Mr. Hut ton, to publish in the Agriculturist, a few numbers back. A large edition both in French and English has been printed for distribution. Whether it can be procured of the booksellers we are not informed ; but from the large numbers printed for gratuitous distribution, their will be little or no difficulty we presume, in any person interested in the subject, obtaining a copy. We are glad to perceive several signs of increased activity in the Bureau, in promoting the public good, and the present attempt to diffuse far and wide amongst the tillers of the soil, so excellent[ond in many respects opportune a work, is an evidence of sound judgment and healthful progress, in the most important direction.-B.

CHAMBERS'S JOURNAL, July, 1855. A. H. Armour & Co., Toronto.

This part completes the third vo'ume of this worldrenowned periodical. We have no space to particularise. Suffice it to say that the Mes rs. Chambers never give insertion to a single ar icle in their Journal that is not worth reading, and many of their papers possess high literary and scientific merit, adapted to the wan's a d tastes of the thinking portion of the community. Rational amusement combined with sound instruction, characterises every number of this truly popular periodical, which ought to find a place in every well ordered family. The Edinburgh edition, which is greatly superior in the "getting up" to the Ame ican repriot, can be obtained monthly of Messrs. Armour & Co. of this city, or of any of the principal by ksellers in the Province, within about a fortnight after its publication in Britain, at the remakably low charge of ten shillings per annum -B.

This monthly serial is of much convenience and utility to all per ons who may be in some way or other,-(and who now-a-days is not?)-interested in books. Each number contains a list of publications with their prices attached of all works issued in in the preceding month in Europe and the United States, with a number of reviews and notices of the more important works. To Clergymen, Schoolmasters, Officers of Mechanic's Institutes, and we may also a 1d, of Agricultural Societies, who must not in the present age lag behind other bodies in these matters,-" The Canad an Literary News Letter " will be found of much service. The publishers we are informed will forward it to individuals interested in books and literary subjects, upon receiving a prepaid application, without charge. A pleasing fact this, showing that the Book-trade has reached a status in this Province to which it was an entire stranger a very few years since.—B.

THE ANGLO AMERICAN MAGAZINE for July. Toronto: Maclear & Co., 1855.

This No. completes the seventh volume of this interesting native production. The present number is embellished by a portrait of Mr. Robert Stevenson, the world-renowned Civil Engineer, and an engraving of the Tubular Bridge over the St. Lawrence at Montreal, for the Grand Trunk Railway. These productions are highly creditable to Mr. Maclear's establishment, affording the most satisfactory evidence of the rapid progress which this department of art is making among us. The literary articles, of which there is a good variety, will be read with interest.—B.

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OUTLINES OF FLEMISH HUSBANDRY, AS APPLICABLE TO THE IMPROVEMENT OF AGRICULTURE IN CANADA. Quebec: Republished by the Bureau of Agriculture, 1855.

THE CANADIAN LITERARY NEWS LETTER. NO. 6 vol. 1. Montreal: H. Ramsey. Toronto : A. Armour & Co., 1855.

MORTON'S CYCLOPEDIA OF AGRICULTURE—parts 27 & 28. Blackie & Son, Glasgow, Edinburgh & Lon don. Toronto: Maclear & Co,

These two parts complete, his original and valuable wo k, making two h-indsome volumes, il u-trat d with upwards of a thousand Engravings in wood and steel. The work is "got up" in the Messrs. Blackie's best style, and its pages are envicted by the contributions of a large number of the best practical agriculturists and Scientific men, the United Kingdom can produce. Altogether it is unquestionably the best exposition of the condition of Britsh Agriculture, both in its science and practice, to be found in the English or any other language. To the enquiring and improving farmer it will form an invaluable acquisition, and may portions of it may be consulted with pleasure and advantage by the general reader.—B

Market Review.

MARKETS, &c.

TORONTO, August 1, 1855.

Harvest having commenced in all parts of the country adjacent to Toronto, the usual supply of produce brought into the ma ket by farmers has been much less than formerly, and a general dullness pervades the market. The wet weather with which we were visited during last week, it was feared, would do much to injure the growing wheat c op; but we are happy to hear that the damage was not so great as was anticipated—at least in the neighbourhood and that, notwithstanding the long winter, the weevil, the Hessian fly, and the rainy season, the fall crop in the vicinity of Toronto wil be an average yield. Spring crops, too, generally look well, and, promise an abundant return.

FLOUR.-The flour market has been poorly supplied. and prices have remained firm. Sales have taken place, for immediate consumption only, at \$9 for good brands-and that figure can be real.zed for all that will be brought in. There has been but very little farmer's flour selling at retail in the market, and none at all for the last four days; but it would probably bring \$9 @ 91/4 for good kinds. There is hardly any milling going on in the country at present-the mills are nearly all undergoing re pair for the fall trade-while ome are en'arging and increasing their facilities for grinding. It is said. that the market for new flour will open at \$9 perbbl, and will be readily bought at that. It may be the case with the first lots offered; but as soon as the supplies come down from the west, and reach the Atlantic cities, t at figure will hardly continue to be paid. It is likely that new flour will come in by large lots, as soon as it can be thrashed and ground, so as to realize present bigh prices. The price of flour to-day may be quoted at \$9, and is held firmly at

that. Spring wheat flour, of an inferior quality, has been purchased at \$3 per bbl. from farmers' waggons. The shipments of flour for the month foot up to 5990 bbls, the greater part of which has been in store for some time. There are not over \$30 bbls, in store here at present.

WHEAT .- The granaries within forty miles of Toron o appear at last to be exhausted, and it is a matter of surprise that the supply has lasted so long. There has been no wheat of any kind in the market for the last five days, and there will not likely be much more of the crop brought forward. The supply has been gradually diminishing-there being only 11.-788 bush purchased in the month of July hardly as much a swas brought in each week of April and May. The average price for the month may be said to be 9s 4d per bushel; and whether that figure will be offered for the new crop, it would be impo sible at present to say. The demand, however, is still active; and, as in flour, the first lots offered will likely he matter will soon be tested, bring a good price. and probably we will have samples of the new crop offering within the two nextweeks The shipments of wheat for the month amount to 12,882 bu helsmainly to Oswego and Cape Vincent There is very little in store at present, and it is probable all that is here will be required for milling purposes.

OAT:-Have been scarce, and, but for a small lo^t brought down from Chicago, the market would have been bare. 'I his lot sold at 3s 3d @ 3s 7d per bush. There have been only a few loads brought in by farmers, and were so d at rather a higher figure. There were some offering to day at 4s, but were held too high to sait buyers—they only bidding 3s 6d \$ bush. The new crop is heading out finely; and as there is a good breadth sown, large supplies may be soon expected. Prices will probably improve until the new crop comes in.

HAX—Has been ra'her plenty, and an active demand makes business brisk. Old, of good quality, brings from \$25@30 per ton, and new \$15@25. The samples of the new crop already brought in are rather inferior—it being probably injured by rain, and brought in for immediate consumption, as it would "heat" if allowed to remain long in the barn. During the past mouth, 144 loads of hay have been purchased on the market. This month is the dullest in the year, and is not a criterion of the amount usually bought.

Wool.—This staple is still poorly supplied, and although the demand is active, prices have not improved. That b ught during the week has been got for 1s 1d @ 1s 2d F lb. Farmers are too much engaged at present to bring wool forward, and no great amount may be expected until after harvest.

POTATOES-Of the old crop, are no longer to be bought on the market, they being among the things that were. They have been succeeded by plentiful supplies of the new crep, which generally are of **a** good quality, and. as a sample, promise well for the whole yield. They bring from 6s @ 8s per bush, and are in demand.

BUTTER-Has been better supplied during the week, but is still in great demand, at 1s @ 1s 3d p r ib.

BEEF-Is s ill plentiful, and prices have declined. Good beeves were bought at \$5½@6½ per cwt. du ring the week. Milch cows b ing \$27. and cows with calves \$30. They are plentifully supplied, and are not in demaad. Calves tring \$4½@ 5.

NEW YORK MARKETS-Aug. 1.

FLOUD – Market firm, with better demand Sa'es 6,000 barr ls at \$7 87 $\frac{1}{2}$ @ \$8 25 for common to straight and extra State, and \$8 @ \$8 62 $\frac{1}{2}$ for mix d to fancy Western. Canadian-Sales 1,200 barrels at \$8 25 @ \$9 62 $\frac{1}{2}$

WHEAT advanced 3 @ 5 cts per bushel. Sales 1,000 bush. at \$1 78 @ \$1 85 for red southern, and \$1 95 @ \$2 15 for white do.

RYE held higher.

CORN 'ower Sales 40,000 bushels, at 834c @ 874c 'or mixed Western.

OATS steady-58c f r State and Western.

CHICKENS-Bring 38 4d @ 3s 9d per pair, and ducks 2s 6d, and are not plenty.

CHERRIES-Sell at 6d, and black currants at 5d per qrt., and are in demand for preserving.

Eggs-Are also more plenty, and bring 11d @1s 2d p.r dozen.

PROVISIONS.—Pork firmer. Sales 400 barrels at \$19 68 @ \$19 75 for mess-\$16 621/2 for prime.

STOCKS active and better. Money p enty and easy at 6 per cent on call, and first class paper. Sterling exchange dull at 110. Eric R. R. 52.

LARD unchanged.

SUFFOLK PIGS, (Directly from Imported Stock.)

THE Subscriber offers for sale, a few of these incomparable ligs, singly, or in properly selected pairs.

PATRICK R. WRIGHT. CASTLETON FARM, Cobourg, .W., July, 1855. S-tf.

FURE DOWN SHEEP.

JUST Received from England, a fresh supply of the latest improved breeds of Soi TH DOWN SHEEP, of the Hampshi e and Sussex hereds, selected with much care and expense, by my son in England, from the best flocks of Dorset's, Hant's, Mr. Jonas Webb's and the Duke of Richmond's.

JOHN SPENCER,

DORSET FARM, Whitby, July, 1855.

TO BE SOLD,

The Property of the East Zorra Agricultural Society :

A Fine Agricultural Stallion

16 hands high, dark dappled bay with black mane, tail, and legs by Old 1, de, out of a leveland mare. He is fire years old this month, and has taken 6 list and 1 second puzes at different shows. For particulars apply to the Secretary of the East Zorra Agricu turat Society, Woodstock.

Woodstock, Ju y 18th, 1855.

GALLOWAY BULLS FOR SALE.

THE Subscriber will offer for sale at the Provincial Exhibition, to be held at obsurg, 2 PURE BIED BULL CALVES, from imported ows; also, 4 IMPORTED CHEVIOT RAMS, to be seen at the premises of the subscriber, near cobourg.

Cobourg, June, 1855.

WILLIAM RODDICK.

8-3

une, 1855.

7.

DAVY'S DEVON HERD BOOK,

OW ready, a LARGE SUPPLY of both 1st and 2nd vols bound in one book, and containing all the subject connected with the Devon records, of both England and America up to the present time; also as a frontispicce, the beautiful engraving of the cel-ebrated picture knows as the "Quarely Testimonial" which is a full length portrait of Mr. Francis Quarely, now living, at 91 years of age. It is also illustrated with two animals, Prize-winners in England. Price, S5. can be had by enclosing the amount to B.P. Johnson, Cor. Sec. of N Y. State Society, Albany, N.Y., Luther Tucker, Ed. of *Country Gent*, Albany, N.Y., Sandford Howard, Boston, Mass., D. D. T. Moore, Ed. of W.G. & S Register N Y., A. B. Allen, Ed of American Agriculturist. N. Y., Samt. Sands, Ed. of American Furmer, Baltimore, Md., A M. Spangler, Ed. of Progressive Farmer, Philadel hia, Pa., Lee and Redmond, Eds. of Southern Cultivator, Augusta, Ga., and Wm McDougall, Ed. of Canadian Agriculturist, Toronto. C.W. It gives me pleasure to state that Mr. Davy has solicited Mr. S. Howard, of the Boston Cultivator, to collect pedigrees and illustrations in this country for the 3rd. vol. and has authorised M. II. to obtain information as to any and all mistakes which may have been made as to the recording of American animals in Davy's 2nd. vol, and such corrections will be made in the 3rd. vol. The Plan proposes that a copy of all the pedi-grees and illustrations collected by Mr. II. as the Editor in America, shall be forwarded to Mr. Davy, and a copy of those collected by Mr. D. will be sent to Mr. H. in this country. The whole matter will be published in America for our use, and in England for their use, by which means an American and English Devon Herd Book will be united, ond the price reasonable, as the expense of English printing and duties will be saved. This concert of action has been brought about by Mr. Davy's good feeling and liberality towards this country; and I am only the instru-ment th ough which Mr. Davy acts; and from this time forth Mr. Howard will receive all communications on the subject, as will appear by reference to his adverti-ement.

All Editors who will give the above th cc insertions, will receive a copy of the 1st 2nd and 3rd vols. L. G. MORRIS,

Agent for J. Farmer Davy's Devon Herd Book.

ENGLISH CATTLE

IMPORTED ON COMMISSION,

BY

Messrs. THOMAS BETTS & BROTHERS.

OF LIVERPOOL AND HERTS, ENGLAND,

EMBRACING

Pure Blood Horses; Short Horned Cattle; North Devons, Herefords, Ayrshire and Alderney Cows; Pure Bred Southdown, Cotswold and Leicester Sheep; Suffolk, Essex and Berkshire Swine;

HADHAM HALL,

BISHOPS STORTFORD, HERTS, ENGLAND, Residence of Messrs. Betts & Brothers,

Two Miles from Bishops Stortford Station, on the Eastern Counties Railway, and 32 Miles from London.

MANY of the best breeders of Stock reside within a few miles of Messrs BETTS' residence, such as the celebrated breeder of South Down Sheep, and the gentleman who has taken the first prize the last two seasons at the Royal Agricultural Society, for the best entire farm Horse; also several noblemen and gentlemen who keep the pure bred Short Horns.

Gentlemen will agree with us, that it is better to employ a professional agent in the purchase of stock, they being likely to know where and how to select the best cattle at the lowest price.

Messrs. Betts will always deliver with the cattte an authenticated pedigree.

As soon as they are purchased, information by the first mail will be given, stating the price, and the time they will leave England for America: also the receipt from the owners of the Cattle.

To secure importers against losses that are liable to occur to cattle on scabord, Messis Betts beg to inform gentlemen they can be insured when desired, against all accidents and disease, from the day of purchase in England till the day of delivery in America, on application to our agent.

Commi si in Charged.							
Horse,	each, \$39						
Bulls or Cows,	((
Ram or Ewe,	" 3)						
	he same owner, each, 2						
Ten do	" 11						
Twenty Ewes,	"						
	he same owner, each, 22						
Ten """	" " " 11						
Expense of keep and at	ttendance from the time of purchase up						
to the period of s	sailing from Lonson or Lave pool,						
i+ctudi-gRail	lua. expenses, &c., as follows:						
Horse,	each S10						
Bull or Cow.	" 25						
Sheep or Swine.	" 15						
Expense by Sea on Board the Steamers.							
Horse,	each, \$125						
Bull or Cow,	" 105						
	" <u>25</u>						
Sheep or Swine,	ل یز 						
	ross the Atlantic on board the Steamer						
provision for 20 days.							
Horse,	each, \$35						
Bull or Cow,	" 25						
Sheep or Swine,	" 8						
- ,							
Expense by Sailing Vestels.							
Horse,	each,						
Bull or Cow,	"						
Sheep or Swine,	" 18						

Keep and attendance by Sailing Vessels, provision for 60 days Horse, cach, 570 Bull or Yow, " - - - 50 - 50 " _ · Sheep or Swine, -15

We have been permitted to refer to two of the largest import ters of cattle into America, Geo. Vail, Esq., of Troy, and of Lewis G. Morris of Mount Fordham, N.Y.: as regards our rate of charges, both gentleman deem them very reasonable.

If gentlemen prefer, the stock will be selected and purchased-by charging five per cent. and travelling expenses. All other bills, such as fitting up of the Ship, provender, passage and attendance, will be rendered on delivery of the stock in America.

A full and complete list of the best stock to be disposed of in England, will be kept with our Agent,

JAMES M. MILLER. 81, Maiden Lane, New-York City.

Parties favouring Messrs. Betts with orders, will please make use of the following Table of Specification :

Breed.	Horso.	No. of Bulls required.	No. of ows required.	About the age required.	Il to come by Steamer or Sailing Vessel	If insured.
Horse,		Ewes.				

Short Horns, Devons, Herelords, Aytshire, Anterney Cows, South Down Sheep, Cotswold, Leicester, Lampshire South Down Sheep, selected and imported on commission to any part of America, by Messrs HIOS, BETTS & Co., Laverpool and Herts, England. Circulars, containing the prices of all kinds of Stock, and the expenses to America, also gaing the weight and quantity of wool of all kinds of Sheep, can be to circle by applying personally or by letter to our agent J. M. Miller, SI, Maiden Lane, N.B.-A. Model of a Patent which, for future will prevent all

N.B.—A Model of a Patent which, for future will prevent all accidents occurring to Cattle, can be seen at 81, Maiden Lane, N.Y. and at Liverpool.

In answer to numerous enquiries respecting the prices of the best stock in England, such as should be imported to America, can be obtained at the following prices:

			- S.		ş.	S.
	Thorough Bred Horses, from	n -	1.00	to	210	12).2
ļ	Short Horn or Durham Bul	1 -	1 Ю	"	150)	7.0
			213			
1	Do yearling Bul					
	Do do lleife	- r -	175	"	4 0	25)
	Herefords Bul			"	- Š Ū	5 0
1	Do Cow				6 0	
			30		\$10	
	Do Cow				500	
1	Ayrshire Bul				3.9	
į	Do Cow					
ł	Alderney Bul					
1	Do Low					
1	D0 C0m	3 -	101			
1					1111	l weigh Will shear n killed of washed
i						
	Cotswold Sheen Ran		700	+~		dressed wool
			100	10	30	13 lbs 125 12to15lbs
	Do Ew				1.0	31
	Leicester Sheep Ran					12 lbs 10
			2)			25
			1-1)			112lbs 125 6 to 9lbs
	DC Ew					30
	Hampshire do Rar	n -	75			120lbs 1 0 6to16lbs
	Do Ew					
	Swine Boar					
	Do ₂ Sow	s -	- 15	"	40	25
	Merino Sheep from Spain					
•	Mules from Spain.					5

THOROUGH BRED SHORT-HORNS.

THE Subscriber offers for sale, 3 Thorough Bred Short-Horn Durham Bull Calves, descendants of the celebrated Bull, "Bellville," champion of England, Ireland and Scotland.

> RALPH WADE Snr. Spring Cottage, flope.

May 22, 1855.

JUST PUBLISHED,

The Journal and transactions of the Board of Agriculture of Upper auxida, No 1, Vol 1st, pp 160 Toronto: printed and published by Thompson & 'o, for the Board of Agriculture This work will be issued in quarterly parts, four of which will form a volume The first part embodies the transactions of this Provincial Association from its institution in 1846, down to the commencement of the year 1851 The next number will con-tain an account of the further proceedings of the Association and the Board of Agriculture, Frize Essays, Abstract of county Reports, &c

Reports &c The work will be sent free by post for 5s per annum All communications and remittances to be addressed to the Secre-tary of the Board of Agriculture, Toronto. Λll

TORONTO, May 1, 1855.

5.

UPPER CANADA STOCK REGISTRY.

To Owners and Breeders of Thorough Bred Horses and Cattle.

THE BOARD OF AGRICULTURE FOR UPPER GANADA, having de-determined to open a REGISTER, at their Office, in this dity, for thorough Bred Horses and Cattle, Notice is bereby given, that any person designing to avail humself of such register, can do so under the restrictions herein mentioned, farnishing duly certi-fied particulars to this office; and can obtain a certificate of the same, which shall be held as officially correct in all future trans-actions relating to the stock so registered. No Animal shall be periodiced unless a slow and distingt acce-

No Animal shall be registered, unless a clear and distinct con-nection be established, to the satisfaction of the Board, both on Sire and Dam, with the British or American Stud and Herd Books.

Where the Animal to be registered has been purchased by the person desiring to register, or has been imported for breeding purposes, a correct statement must be given of all particula before a certificate can be issued.

It is desirable, in order facilitate the taking of entries or the Provincial Exhibition at obourg in October next, that per sons deshing to register stock should do so at an early date, as all animals for which Register certificates shall have been given will be entered without further inquiry. Owners of stock are re-commended to keep Duplicates of Pedigrees.

G. BUCKLAND. Secretary.

Office of the Board of Agriculture } Toronto, March, 1855.

DRAINAGE AND SEWERAGE PIPE MACHINE

CHARNOCK'S PATENT.

BY this Machine, Drainage and Sewerage Pipes of all descrip-tions, as well as perforated and other Brick, Flooring Tiles &c., are molded with the greatest facility and precision

A man and three boys can turn out from 5, 0 to 1°, () feet of pipes per day, according to sizes; and if worked by horse, steam or water power, a proportionate increase will be obtained.

This Machine is in extensive operation in England, where, in addition to the testimony of numerous Tile Makers, as well as that of the first Machinists of the day, the following Prizes have been awarded to it.

By the Yorkshire Agricultural Society, at its annual

meeting, 1845, as the first Tile Machine with a con-- £500

tinnous motion, By the same Society, the following year as the best Machine of the day, By the Lancashire Agricultural Society, at its annual --1000

meeting,1845, By the Iligaland Agricultural Society, at its annual - - - -Silver Medal

meeting in 1846, as the best machine ----- 500

At the meeting of the New York State Agricultural Society, at Sarato a (1553), a working model of this Machine was awarded the Silver Medal and Diploma; and at the Fall Exhibition the same year of Lower and Upper Canada, held respectively at Montreal and Hamilton, the same Model was awarded a Diploma from each Society. It was awarded the First Prize and Diploma at the recent Exhibition in London anada West.

The price of the Machine is $\pounds 5^{0}$, (half each and remainder at six months), with five Dies for Pipes. Brick and other Dies at a moderate charge.

The Patentee guarantees the effective working of the Machine.

All orders to be addressed to

JOHN II CHARNOCK,

Drainage Engineer, Hamilton, C. W., the Patentee. Hamilton, March, 1855.

SPRING STOCK OF IMPLEMENTS.

THE Subsc ibe s beg to info m Ag icultu ists and No ticultur-tists, that they have eccived large and varied asso tment of FARM & GARDEN IMPLEMENTS

And would solicit a call f om pa ties about to pu chase, at No. 77, co ne of Yonge and Adelaide st cets, To onto They have on hand a quantity of the most imp oved Lap Fur ow Ploughs, which have of late been so much in demand Reaping and Mowine Machines on the most imp oved p inciples, will be for sale in their season

MeINTOSH & WALTON. Toronto, 1st May, 1855.

TO BREEDERS.

THE Thorough Bred Short-horned Bull, "Jons O'GAUST," Second, Bred by John S. Tanqueray, Esq., Ilendon, Mid-dlesex., England, imported by Frederick Win. Stone of Guelph, October last.

This very superior Young Bull will be kept at the Subscriber's Farm, Farmham, Puslinch, five nailes from Guelph.

Terms for Service-Thorough bred, Five Pounds ; if grade, #8. Parties wishing it, can have pasture at a reasonable rate. No risk by subscriber.

His sire, "John O'Gaunt" (I 621 English Herd Book), was sold in 18 3 for \$4,10.

FREDERICK WM. STONE.

Guelph, April 24, 185 .

COMBINED REAPER AND MOWER. Manny's Patent with Wood's Improvement.

Manny's Patent with Wood's Improvement. THE Undersigned are now manufacturing the above Ma-chinery which has been thoroughly tried through the functed states, and have given entire satisfaction. In the fre-quent trials made with every machine that has any claim to reputation it has proved the best in the tollowing points, viz. Its perfect adaptation to uneven surfaces—its means of adjus-tability to various heights of cutting—its lightness of draught to field upon its own wheels, and changed from a reaper to a mower, and vice versa—the construction, for strength and du-rability—and its capacity for doing busines. By means of suspending the frame to the axle of the wheels free joint and lever, the driver is enabled at his will to elevate or depress the cutters from one to fifteen inches from the standing grain to allow the team to pass, so that the wholes field may be cut without removing any of the grain. Miner with two setts knives, \$13 . We are also manufac-turing Burall's Reaper, price \$120; and Ketchuni's Mower as improved, price, with two setts of mowing or reaping from ten to fifteen acres per day on smooth land, as well as can be done with scythe or cadle. H. A. MASSEY & Co.

H. A. MASSEY & Co.

Newcastle, May 6, 1855.

THE CANADIAN AGRICULTURIST.

TS PUBLISHED MONTHLY, at TORONTO, Upper f anada, and devoted to the improvement of *Agriculture Hothcul-ture F* on Mechanics, and to the advancement of the Formers intervise x_e eraly 1 teomences its SEVENTH Volume this year, 1855. Each number contains 32 large octavo pages.

The Agriculturist is Illustrated with Engravings of tattle, Implements, Farm Houses, Farm Buildings, &c., and is the only Agricultural paper printed and published in Upper Canada, Receiving as exchanges the leading Agricultural Journals of the United States and Great Britan, the Editors are able to select and lay before their readers every thing of value that may appear in these papers.

The *Agriculturi*: contains, beside Editoral and Miscellaneous matter, Reports of Farmers' lubs Essays, Proceedings of the Board of Agriculture, Prize List of the Agricultural As-ociation, Information and Hints to Agricultural Societies, Sc. Sc. It is strictly a ANADIAN work, and should be taken in by every Far-mer who desires to improve himself, or who feels any pride in the admension of the courter. the advancement of his country.

Professor BUCKLAND, of Toronto University, continues to assist as Editor.

Some of the most intelligent Practical Farmers in the Province are contributers to this journal.

The Agr culturest is not a second edition of the Genesee Far-mer, nor of any other foreign publication. It is a home produc-tion and asks no man's support under a false name. It is a true not a spurious Canada Farmer.

TERMS

Single copy - -

*. The Agri ultrist is not liable to Postage.

Newspapers inserting the above will do us a favour, and entitle themselves to a copy without exchange

WM. McDOUGALL.

Publisher, Toronto.

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