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# Published under direction of the Board of Agriculture of Nova Seotian 

## Omnium rersm, ex quibus aliyuid adquiritur, nihil est agriculturd melius, nithil uberius, nihal homine libero dignizus.-Cicero: de Officiis, lib. I, cap.42.

CENTRAL BOARD OF AGRICUL TULE 1884.
focornment Member.-Hon. A. Gayton, Commissioner of Works and Mrines.

Mfember for District No. 1, including the Cointies of Halifax and Lunoaburg: - Atajor-Gencral Laurie, Oakfield.

Member for District No. 2, including the Counties of Kings, Annapoles and Qucens :-Colonel WF. E. Starratt, Paradise.

Member for District No. S, inciuding the Counties of Digly, Shelburne and Yarmouth :-Charles E Brown. Yar mouth

Mfember for District No. \& inciuding the Counties of Hantw, Colchester and Cumberlard:-Ismel Longworth, Truro.

Member jor District No. 6, inciusing the Counties of Pictou, Antigonish and Guysborough :-David Matheson, Piatou.

Mfomber for Distract No. 6, including the Counties of Cape Breton, Ruchmond, Inversexs and Victoria:-John MoKeen, Mabou.

President:- Major-General Laurie, Oakfiold.

Vice-President —Isral Longworth, Trum.

Secretary and ITreasurce .-Dr. George Lawson, Helifax.

Executive Committee:-Colonel W. E. Starratt, Paradise; Istacl Longworth, Truso; the Government Member, and tho President of the Board

We regret that owing to press of matter, a number of papers and communications that we were anxious to publish at once hare to be carried over to next nmabor; which, however, is already partly in typeand will be published without delay.

At a meeting of the "Natronal Pigasumerss," held at the Inns of Court Hotel, London, on the 5th February, Lord Moreton, M. P., presiding,F. R. H. the Prince of Wales was invited to become patron. The Editing Committon was io be clected on the 27 th February and the first volume of the Fierd Book ras to be proceeded with at once. Separate Committees, consisting of Knights, Military Captains, and Noble Lords, have been appointed for the several breeds. It is cvident that porizers are socially on the rise.

I ass pleased to infurm the readers of the Jounsal that the Messes. Chase have made an impurtation uf luve stock this winter from Ontario, consisting of a Short Hom Bull and Cow, an Oxiond Down Ram and six Ewes. The stock was personally selected by MIr. Oscar Chase. He informs me they are from the wal-known and far-famed herd of G. and W. Watt, Salens. The bull is grandson of their stock bull, Reampton Hero, the cow is hali sister of the same bail. Tho bull Brampton Hero has stood at the heru of Miessrs. Watt's herd for five years, proving himself famous as a stect getter and prise winner in Ontario.

We wish the Messrs. Chase every succoss, and trust their importation will give a new impetas to the breeding of Short Horns in Cornwallis.

Respectfully submitted, T. B. Jaceuss

Cornvallis, March 4th, 1884.
W. Jarenan, Provincial Veterinary Surgeon, will visit the several Agricultural Districts of Nove Scotia, under arrangemonts made by the Central Board of Agricultura, of which notice will tre given from time to time, and he will be prepared to treat cases of Dumestic Animals suffering irom Diseuse or Accident, or requiring operations performed.
Scale of Fees (modificd under arrangement with Board) :

Visits, sdvice and prescription, 81 for first and 50 cents for each bucceeding visit. Medicines extza at reasonable mates.

Operations from $\$ 1$ up to $\$ 5$, according to nature aud circumstances.

When culled specially to a distance at places or times not advertised, the charge will be $\$ 5$ per full day, and actual necessery travelling expenses.
Infcrmation as to the arrangements for Mr. Jakeman's visits to ciae several Dis tricts of the Province may be obtained at all times on application to the Membet of the Boand for the District.

Tan Jensey Bull Litchfield 15th, presented to the province by $F$. Batchiord Start, Esq., of Litchfiuld, Connecticut, after boing quarautined at Darinouth,
was allowed to remain there churing the greater part of tho soavon of 1883 . On 3lst July, 1883. he was acilt to Trum, and kept thero until the beginning of Fobruary, 1884, when he was transported to River John. The bull did not retain his popularity in Truso, having causod the Jersey broders there several dienp. pointments. He has bern in careful hands ever sinco his arrival in tho Province, and the Hoard hope that he will prove useful among the Jersey hords at River John.

Duman 1883, the Potato Beetle appeared in several Counties of the Province. The Board at once mailed Circulars to persons in the infected districts giving full instructious how to denl with the enemy. It is belioved that vigilanco on the part of potato growers in carrying out the instructions given will effectualy prevant the spread of this pest to any serious extent in this Province. Copies of the Potato Beetle Circular may be obtained on application to Members of the Boand in the several Districts, or to the Secretary of the Board, at any time, in quantities sufficient for distribution in any localities in which tho Beetle may appeas.

The Pictou Agriculturel Society excrted praiseworthy vigilance in dealing with the intruder, as appears from the Society's Report:-"In the last annual report reference is made to the great danger of the spread, and consequent mischief of the Potato Beetle. A Committee was appointed by the Society last Fall (1882) for the purpose of taking steps to provent the spread of this insect, and circulating information regarding the best way of exterminating it. The said Committee gave the natter very earmest and faithful attention, and had a circular issued containing the best information obtainable as to its migration, food, general history, and particularly the best remedies for destroying it. These circulars were digtributed in all districte of this side the county, and it may be here stated that Professor Lawson, having received onto of them, was so highly pleased with them that he ordered a large number of them to be prinud and sent to hinn for distribution in other portions of the Prorince. Your Directors have very great pleasure in stating that the dreaded results of this pest have not been nearly so great as was feared, and they firmly believe that this resulted entirely from precautions taken through the information derived from thee circulars issued by the Committce, and they would suggest that the Society record their high appreciation of the efficient manner in which the Committee performed their work."

The Boand suggest to other Societies thmughout the Province the propriety of

Watohing with cars for the advent of the Putato Westle in hiver districtes, and of adopting with alacrity tho proper remedies.

## LIST OF GRANTS TO AGRICUY.

 TURAL SOCIETIES FOR 1883.

Christmas Inland Agri. Society...... $\$ 57 \leq 0$ Sydney Minet \& Littlo Bras d'or Soa 6301 Sydney Forks Agri. Socieky.......... 6505


Sydney do $\cdots \cdots \cdots \cdots \cdots, . .$.



| Canning Agri. Society | \$ 02 54 |
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| Kentrille do | 6515 |
| Somerset do | 7557 |
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| Bridgowater do | 7401 |
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| River John do | . 4493 |
| Lorne do | 3788 |
| Pine Tree do | 54.3 |
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| Caledonia Agri. Soristy................ $\$ 8200$ <br> Livcrpocl do ................ 19200 |  |
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|  | \$356 00 |

Richmond Courty.
Malijar: County.
Lower MLusquodobeit Agri. Soclety ... 8730 Yppor do did do $\quad . \quad 8309$ Mnlifax Co. Agri. Socisty . . . . . . . . . . 7780 Dartmouth do .................. 10231

Hants County


| Whycocomagh | Agri. Society.........\$ | 5851 4468 |
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| Canbo | do |  |
| Lemoine | do | 3423 |
| R. Dennis | do | 4255 |
| Strathlorno | do | 9303 |
| N. E. Margarce |  | 4255 |
| Nabou and Por | ort Hood Agri. Society | 6383 |
|  |  | 40000 |

Kings' County.


## Shelburne Courly.

Shelburne Agri. Socicty ............... 89800
Barrington W. P. Agri. Society....... 10800

## Vietoria County.



Yarmouth County Agri. Socioty...... $\$ 25000$
In view of the small amount of grant which it has been in the power of the Boand to assign to Societies in eeveral of the countics where a lango number have been established, the Board havc renewed the rocommendation, contained in their Report for 1882, viz: That the County Grant to Agricultural Socioties should be increased, with a viow to their greater efficiency, and that the number of Societies in a county should be limited, for the reasons set forth in that Report (page $x \times x i$.) In reference to this matter the Clements Agricultnral Society, in Annapolis County, reports as follows:"We sincerely hope that the recommendation of the Central Board to the Legislature to increase the county grant to Societies, with a viow to thoir greatar efficiency, may meet with the consideration it deserves. That the multiplication of Societies in counties be in some way restricted, is greatly desir a Aunapolis has now seven Agricultu: IlSocieties, and the small amount received by each from the grant is quite insufficient to materially conserve the interests of Agriculture in our County,"

At last meeting of the Board Mr. Brown called ettention to the small proportion of grant available under the present terms of the Act for large County Societies. Thus, whilst in several counties the grant amounts to about two dollars for every dollar subscribed, so that the four Societies in Halifax County subscribe a total sum of $\$ 207$ and obtain grants to the acmount of $\$ 400$, yet in Yarmouth County, where the County Society subscribes $\$ 425$, more than tivice that of Halifax, and annually carries on an extensive County Exhibition, the grant amounts only to $\$ 250$, or little more than half that of Halifax. County.

## So the Lditor Journal of Agriculture:

## Windsor, N. S., Feb. 12, 1884.

Drar Sip,-I he e not written for your Journal for come time, but I hope you have still room for an old correspondent. I intended to have applied to the House of Assembly for a small grant to enable me to present tro or three farmers of standing, as evi ince bofore the Committes on Agriculture on the Drainage Queation; also at the same time to nave read a paper in furtherance of the stuma object; but circumstances have
altemi my plame, and I must rest content with my present action. I assume this work myself only on acomint of the position I have held as a writer on the subject, and frem the practical experience that I have had in the work itself; the advocacy of it has ceased to be to mo by any means a labor of love, not on account of any defect in its usefulness or desirability that experienco has shown; the reverso in fact, as my main object in producing impartinal ovideuce was not to show that it (the drainage resultz) had excet led my most sanguine expeotions, but because the continued opposition, or worse, apathetic indifforence, shown by those whose intelligence, education, and position should make thom its greatest adyocates, had disheartened me. To bring this aiticle within the compass of your Journal it will be necessury for me to condense as much as possible, and, as I have to cover a considerable extent of ground theoretically, this is a somewhat difficult operation, to accomplish which it will be necessary for me to confine myself to statements made entirely on my own practice and experience, at the risk of egotisn and the annoyance of making ones own affairs somerhat public ; but $\bar{I}$ confess that I feel extromaly loth to abandon a scheme that I have taken so prominent a part in advocating, (I mean the passage of a Drainage Act), and which every year convinces me more and more of its desirability. It is nacessary for the instruction of my readers that I should show concisely what my farming position was about ten years ago, after lanving completely drained and subduel my own little farm of sixty acres, as I thought that I could work to advantage by largely increasing my area, even at the risk of borrowing money for working capital ; this I failed to accomplisa, as I was fairly told by the Halufax capitalists that I wrs ahead of the times, although no doubt right in my ideas. I was then of course involved in numerous difficulties, and only my little farm left in my hands, without stock, capital, implements or anything to work with, and, to make the niatter worse, a large portion of the best part of the farm was in fallow, that is, ready for grain and grass seeds.

The farm was advertised for sale to cover any pecuniary liabilitics, about the first of July, and, as there were certain reasons which made it doubtful whether a sale could be effected, I requested tho parties who had advertised it to postpone the sale for nbout two months, to give me an opportunity of seeding the land with grass and grain. This very reasonuble request was refused, and the result was exactly what I anticipated, the rich drained land became imnonse thistle beds, the object of censure to every
passerby ns the final result of the so called Einglish farming, aml, owing to tho extremely disadvantageous position in which I was placed, where I hat not the control of the farm myself, although seven or eight years have transpired I have only now come to the last of these fields in rotation, so that you may easily inngine, sir, what the loss has been to we for want of the few facilities that are given in every en called civilized country. I wish your readers to fully understand that I imply consure to nobody, cortainly not to privato individuals or companies of any kind, for I believe that the disad. vantages that I have labored under are what every one must expect who takes an advanced position in any thing, and it is only by these personal, nlthongh unwilling sacrifices, followed by judicious and intelligent legisintion that the benetits of civilization are extended to the multitude. I have a great horror of the man that is never appreciated, or thinks that ho is not, so that should any of you feel inclined to drop the mper from a lack of interest in my doings, I can assure you that I shall onl- refer to them as necessary testimony to the advantages to be gained by following a like system, avoiding what was evil and improving on that which was good.

I will not enter into details as to how the farm has been managed for the lust seven or eight yise, or since the time beforereferred to; of course things werenot satisfactory to me, there was neither sufficient capital nor skill to do such a farm justice, however I managed to exist and keop up a tolerably good sotation, which is everything-and the thorough drainage did the rest, or in fact I should almost say everything, as aven the rotation could not have been kept up without it. The way I maunged nay be useful and amusing, as it was cortainly not accomplished by any royal roak, as the farm was let on the balves. I. had nothing but my share of the crop for oxpenses, and, to save any deterioration of the property, I annually provided artificial manures in sufficient abundance to complete tho root crop, about four acres; this, if it did not procure the heariest yield, at least ensurcd a certain purtion of the farm being cleaned and worlied every year, the great secret of sucerss on a farm. Sometimes losses occurred from downright bad farming, and often from want of pluck, but that the main object was gained, that is the kceping up of the actual, not imaginary, value of the property, I will procced to show from incontrovertible testimony. Ong little episode in connection rith my farm experience, and which is worthy of notice, occurred last March, my halfvorker, or partner I suppose you cal it, gave me about a week's notice to quit,
and worre still, taking all the menure awny. Now I don't winkt to rivmik any further on this than that it appears to bo getting to bo a common custorn, and certainly does not tend to induco that fecling of tegpect and contidencos which the fatioing community should have for ono another. To many in my position tho harm done might have bees rery serious, $n$ s, having feon hitherto unsuccessful, thoso intorested pecuniarily in my operations wenld hardly be inclined to allow me much latitude; howover, fortumately, on account of tho reputation that the farm had neçanixed, entirely on account of the dmining, I had innmediato applications aud selected a partner having at lonst as much working capital and skill ns ono could oxpoct. Of course wo morked under disadtrantages, Our barn yand manure was limited, and $I$ had ro time to take the depth of ny new ma.u but $I$ still determined to stick to the old test and maintain tho fertility of the soil at any sacrifice, so the barn-yard manure was supplemented with an increase of artifical manure to kcep up the rotation, and a soven acre moving field was thrown out to pasture to be only halis etcocked. And in tho fall a good swarth of grase could bave been cut on any pait of this field. I dwell somowhat on the operations of this year, as the value of the farm is made by applying the annusl return to capital, this year being taken as the standard, as I know that iny this method I cannot bedeciived in the future but can ulwess calculate on an increase. The crops were all light and prices realized small, and I am confident that by more careful farming from fifty to seventy per cent. could be easily added to the total yield with iat small increase of working expense. Still the whole farm having been worked one time or another, every acre contributed its share, and the total result wses suffcient to yield me, clear of expanse, a return of nearly six per cent. on double the sum that I originally paid for the farm, which, being in a settied locality was prety high. Now I can either lease or rent the farm to good marshes at any time, reserving the honse and a cortain quantity of land for mysolf, so that in spite of the opinions of outaiderg the farm is worth to me, ns long as I reside ari it, at least three times the original cost, courting nothing for em. bellishment, dec, in the way of ornamental trees, and which the paseerby can easily imasine has been a larre item. Of course I shall not be foolish enough to give a lease, based on such farming as last yearks. Our failures last year vere partiy unavoidable, partly the result of the penny-wise, pound.foolish system. The seasson was too dry for superphosphate, and great loss occured by not uttending to the roots in time. My new
partner mathor opened his oyes to tho benofits of machinery whon ho found us runisisg out ous superphosphate at tho ato of one ton fer diom, and withont. any handling, for which i im indobted io your recommondation to Mesara Gowor \& Co. So much for the so called Euglish arystom that I buar so much about, but really do not know what people mean wheo thoy say you can never make Engliah farming pay ! never mako our peopla take up English idean, and so on. Diy endeavor has bean to grow ciops in the most cconomical nad practical way, I don't cans whether tho ideas are borrowed from tho English. Americans or Chiness for that mattor, I certainly gare the Norm Sicotian system so much in rogue at that time, (marsh mudding and other methods), a fair trial, with tho result that my capital was uearly all sunk before I had laid a siugle daxic of accomplisbed anything that could be said to add to the permanent value of the farm, and yet I find on referonce to my books that in 1863, when the working expenses of the farm were far greater than those of lest year, the cash seturns wore only onsofifth. I hope your readers will not for a moment imagine that I am attempting to show that farming can be muda profitable in Nova Scotíc, that mine or any certain style of farming should be adopted to the exclusion of all others. No business or enterprise can bo called a success uniess the opemtor can show a clear dividend of at least six per cont, and also command his original capital in toto at a short notico. This I certainly cannot do. There are also many farmers to whom I mast tender the pulm, at least for making money on a farm, if not by what would legitimately be called farming, as they have commenced without any capital. My object has been to put a plain statement of facts befare tho public, so as to remove if possible many deop rooted and existing prejuciices, which I iolieve ta be inimicol to all progression, not oniy in farming but in everything.

The reader cannot fail to observe, aftor a careful perusal of the foregoing, that draining might be made ta play a very important part in the farming carcer of any intelligent farmer, but unfortunately there is the reverse or dark side of the picture, which can only be removed by legislation, to accomplish which has been the object of the writer in this and previous papers, also in his little pamphlet (English and American Farming). Although on axtremely wet lind, where the fertility is completcly locked up, drainago by itself sometimes accomplishes wonders, it is unwise to urust to anything more than the mechanical effect groduced on the soil, and, as the operation is an expensive one, the advanced farmer may in the present backward state of our
farming institutions, finit himedf in the samo position that thice cats srere aftur drawing the chestntit firm the hot asles. This is the more unfortmate, as, althourih this ovil might not orim, still the knowledge that it is not withust the range of possibility is enough to thomp the cournso and onthusiasm of the veriest giution of farming. The cost of inuinage is tot :0 greak but that its bencitits may he brought within the mascre of almost anyone, previded always that the pagneoit be arranged for, as is douse in Ontario, by annual instalments inf tu twenty years.

February 24th. I finl by your posial card that I matrot comcluate :to once, this I am sorry for as I feel that I have frow done the subject half justicu. My objrist has been to show that tho improvisg farmer, that is, he who mileus two bladus grow where only ons did formenty, is entimly unsupported, while mure prodicere receive every encouragement; this is the more unfortunate, as it is not tire case in the adjoining Proriates of ald Canada, the real weffare of firning is, I am convinced, dependent mure on go.rd legislation, taken in the righl rirection, than anything else. The estiblishment of schoors and farms may be illvisalle, but no amoust oi education will maka a man a good farmer without exprriente, it is a dangerous matter learning yuar drill before the enemy. The mere growing of large crops I found to be :a cinule matter under my system, in fitct too much so, as it tempted me beycuil my depth. The passage of a good Dirineage Act would, I believe, in a great monvure move than supply she want of mudel farms, as, in all probability, some lealing intelligent farmer would set an exnmple which his neighbors would beonly tor rilad to follow, so that every locality mighs have almost a model farm at their own lour.

My operations have certainly suvolutionized the ideas of many farmers in this district, and it was for this reason that I wished to present them personally before the Legislature. I have no relson to alter my ideas in the slightest dugree as to what means should be taken to make farming a pecuniary success. Aud I stilk stick to inc old doctrine, as expressed in my little pamphlet and endorsed by the best authorities, avoid locking up your capital as murh as passible in permanerra investments, puch as drainage, buildingr. \&ic. All the skill and knowledge in tho world will not prevent the Ontasso farmer from working at from 50 to io per cent. discount directly lie enters llu Maritime Provinces. These obstructions can only be removed by legislation.

Your obedt. servant,

## Alfred C. Thomas

Pleaso excuse the rast part as it whs written in a great hurry.

20 the Editor of the Journal of Agricuiture :
Silh--I have just finished hauling in my last heap of turnips from the field where thay havo been stored, and find that as usual they lave kept badly. They had sprouted badly-80me of the sprouts being five or six inches in length, -and yet they had frozen considerably, especially on the top and along the north side, showing that thoy had felt tho oxtremes of heat and cold. This is the secoud winter that I have tried storing in the field, and I am far irom being satisfied with the results My manner of storing was this: I dug a treuch about a foot in depth, six tees wide, and loug enough to hold 260 bushels when piled up for covering, perhaps twenty feet I mado three rintilators one inch by four insido, with slats placed one end on the ground, and piled the turnips around them, they running about a foot above the top of the heap.

The tumips were dug the last week in October and first week in Novamber, covered immediately with a thin layer of straw and about two inches of dirt. On the 29th November they wore covered with a layer of fine spruce boughs and about eight inchos more dirt. Last yeas I covered them with a much heavior coat of dirt, but as they heat so badly I concluced to give them less covoring this tume. I have tried storing in the house cellar right from the field but they almost invarisbly heat and rot. i have tried putting them in a building for a week or two and then storing in the cellar, with mucls better zesulta, but where one is raising them in large quantities this cannot well bo done.

I have been thus particular in describing my method, hoping that some of your readers who are more experienced will show me through the "Journel" wherein I have missed it, and point out 2 remedy.

I have learned to grow turnips without difficulty but have yet to learn how to kieep them. I have also leamed that they are profitable feed for all kinds of stock, and that with good straw thoy will make good beef, and am fully convinced that we ought to grow more of them to feed on the farm, and grow 'ass potatoes for export.
Cornw Uis, Feb. 7, 1884.
[Wo hope some of our readers will give H. and others the benefit of their experience in the sioring of turnips. -ED. J. A.]

Comzon seed meal, such as is not fit for feeding, is being sold and used as a fertilizer. About 300 lbs. per acre is the averaga quantity recommended. This meal has been used extensively in Connecticut and Massachusatts during the past two years by tobacco srowers, with, it is said, satisfnctory results.

We reprint a portion of the Directors' Report of the King's County Agricultural Society, as wo think it is duserving of a wider circulation among Agi:culurists than it can attain in the Journale of the Heuse of Assembly :-

The past season, notwithatanding the partial failure of the potato crop, owing to an unusuaily wet spring, has been a fairly prosperous one for the farmers within our district. The soil in Lower Horion, for the most part, contains a large propurtion of clay, and many farms are insulficiently dreined, and during a rainy spring such land dries very slowly, and seed-time is greatly delayed. This was the case lnst spring, and sowing and planting, hoeingand haying, were crowded so closely together that the farmer could scancely overtake them, and in some cases potatoes were planted too late to be hoed more than once, and the blight killed the growing tops, and the crop was lug green, and was light in consequence, and more or less diseased. The average would probably not exceed one hundred bushels per acre, and the market is dull at 25 cents. The potato crop in this locality is largely relied upon for ready money to meet current expenses, and this shrinkage will be injuriously felt. Other crops have yielded fair returns, however, and every other article of produce whicl. the farmer has to sell is commanding a good price, and there is every reason to return thanks to the Giver of all Good Gifts for tho health and prosperity with which yo have been blessed during the past year. We will now consider the Grain crop. A much smaller area of Wheat was sown than in tho past two or three years, owing to a retum of the weevil and the uncertainty of the crop. With some farmers this crop was a total failure, while others harvested a fair roturn. But a small quantity of Barley, Rye and Buckwheat is raised here, tho great staple grain crop beivs, Oate. This Grain will come up to the average, some acres on th Grand Fre yielding fifty bushels, and the businn weighing over the standard. The bulh oi the Grain crop has been threshed and gamered (Dec. 4), three twohorse machines in this neighbour hood having threshed about 12,000 bushels, the proportion of all other varieties to Oats being about oue-fifth, and the larger part of this fifth Wheat. The total Grain crop within the bounds of the Society would probably reach 25,000 bushels, and, deducting a fifth, we have 20,000 bushels of Oats, the product of a strip of the Township some twelve miles in length hy four in breadth. Now, applying this yield in a somewhat reduced ratio to the whoie County, and the neighbouring Counties of Annapolis and Hants, we have a large quantity of Oats, and considering their superior quality, and the nutritive properties of (intmeal
as an article of diet, it is a little singular that there is not one mill in the three counties for the manufacture of Oatmenl. Ae far as your Lirectors know, lictou and Colchester are the only two counties in the Prnvince where it is manufnctured. It way be that it pays the furmer here better to sell his Onts for 45 or 10 cents a buehel, and buy his meal in Ontario os the United States, at 4 or 5 cents as pound. We would call the atter.tion of the Society to this matter. The (lat crop is sure and abundant, and can be cultivated and harvested with less expense and labor than almost any other crop raised, and we think oatmeal could be as profitably manufactured at home as wheat flour. Many are ignornint of the value of Oatreal 88 a jucd, and the way to cook it to make it palatable. The meal should be coarse, and a large quantity of water used, and after the first stirring is should be left undisturbed, and boiled quietly nearly two hours. The great secret is to cook it thoroughly. Many labouring men think the day's work caunot be well begun without a breakfast of fish or meat, and potatoes and bread: but Oatmeal contains a larter proportion of albumen or nutritive matter, fat, starch and salts than wheat flour, and excels every other vegotable substance in uniting a large quantity of the four alimentary groups. Peas and beans are a little riches in albumen, wheat in starch, and corn a fat; but in producing muscle, which is the same thing as producing strengt' or labor-power, it surpasses all other a. acles of food, and at a less cost. A table. as been prepared which sherrs that one pound of labor-power from potatoes osis 94 cents; fine flour 54 cents; unbolted 44 cents; corn 17 cents; beans 15 cents; while from oats it only costs 13 cents. It is, therefore, the laboring man's diet, par excellence, and, as it is casily digested, it is also excellent food for children, and it should be a regular article of dict on every breakfast table. The Scotchman's oatmeal has become proverbial, and where can we find a more hardy mee, or one endowed with more shrewd common-sense and brain-power! The Scotch both eat and drink it ; and, indeed, during the heat of summer there is no drink equal to ontmeal and water for guenching the thirst, fand cooling and refreshing the tired laborer. It is no wonder the horse thrives on oats ; but we think a part of their nutriment is lost by not grinding them. We now come to the Hay crop, the most important crop grown in this valley; for the farmer depends chicfly upon hay to minter his stock, and upon his stock to make fertilizers for his land. In a few years ensilage will probably be made to largely suppiement the dried grass of our dyke land; but at present there are only two silos in the county. It
was fearod early in the senson that the Hay erop would be a failuse, bat thoso fears proved grotndless, and the barns are well filled with May and Staw. The crop was bolow the average, howaver, good dyke outting ono and a hulf tons to the acre, and prorer quality not more than a ton. 1)uring the latter part of November the high tides broke thr dyko in seveml places, and flooled the outskirts, but the gaps werv promptly stopped and very little damage done. In view of the unusually hightides of the past fow years and the frequency of breaks in tho dyke, would it not bo wise to give the whole dyke a thorough inspaction nost spring, and make all the weak places strong?

We next come to the Orchard, which is mpidly growing in extent and importance, and Fruit is beroming a large source of income to the farmers of this valley: Cherries are not counted here; Phums were a light crop and the price high; Apples, the fruit of the Annapolis Valloy, and the crop ahove all others in the near future, were far below the average yield, but they were large, well-coloured, and very uniform in size, and there was a ready sale for them at figures which fully compensated for the sizortage. The carly, zoft vorieties, inciudug the Gravenstein, sold ter the Boston markel at thre and four dollars per barrel; the long-kecping varieties have been lay, oly held for the London market, and iseve already been shipped, (or soon will,) so that they may reach the Christmas market. Orcharding is becoming more and nore popular, not only with farmers, but also with professional men and men of wealth in our cities, who have un eye to a good investment, amd cin also appreciate the pure, cool, health-restoring atmosphere of our garden valley in the summer months, filled, as it is with the beauty and perfume of the pink and white blossoms in the flowery month of June, and later all aglow with the red-cheeked and golden apples among the green laves. There is not a spat of earth on the globe hetter adapted by soil and climate to the cultivation of the variots kinds of Apples than this valley; and every acre of it, from the Aunapolis Basin on the ve t to the Avon River on the east, might be profitably planted with treces There is no doubt that money mvested in this way would pay as large profits as orange grves in Florida, and be surject to none of the risks of stock in Mexical silver mines. There is now a permanent market across the water for all the surplus Apples we can mise, fruit stcamers afforl safe and rapid tiansit, rith reasonable freight charges, and the facilitics for storage ond shipment at both ends of the Windsor and Annapolis Railway, are now firstclass. Our Apples camot be surpassed
in size, color and quality the world over. This was proved by the reoption with wheh C. R. H. Starr's oollection was motat the Horticultum Exhibition lately held in Englaxd, and the notice it received from the Press. Thurs is every prospect, thorufore, that fruit-ruising is destined to becomo tho leading industry in King's and Annapolis Countios. There is very littlo change in the varioties planted. The Gravenstein deservedly holds ito place in the front rank; but these is a tendency to plant nore of the long-keeping varicties, and not so many varictios in one orchard. The Ban Davis has become quite popular within the last year on account of this quality. It will keep sound with ordinary cans the year round, and is bright and of good flavor a year from the time of gathering. Next to the Apple comes the Pear, which is a most delicious table fruit, and would repay a much larger cultivation than it has at present. The crop was abundant, and sold readily. The Bartlett is hardy and prolific, and usually brings five dollars a barrel in our own markot.

Vick's Floral Guide- We have roceived a copy of "Vick's Fioral Guide," and, as the firm adds five dollars worth of flower seeds to every editor, it is but meet that every editor, as suprome guardian of the public interest, should look the gift Guide in the mouth. We do not wish to be singular in this respect, nor ungrateful, and therefors commend Vick's Floral Guide, and Vick's regetable and flower seeds to the attention of our readers. We might have some qualms of conscience in doing this were it not that the Guide is one of the most tastefully got up Annuals issued by any seed establishment in America or Europe, and the seeds sent out by Vick, which wo have purchased and grown for many years, besides receiving occasionally as an editorial sop, are always fresh and of first rate quality. Wo have never heard auy one grumble about Vick's sceds, which is the highest compliment we can pay them. The kind hearted old gentleman has gone to his long home, and -e are glai to see that his sons are doing honor to his memory by maintaining the honor of the house.

We ought to add that the book contains three beautiful colored plates, ifull of illustrations, printed on the best of papor, and is frited with just such information as is required $b_{y}$ the gardener, the carmer, those growil, plants, and every one needing seeds or plants. The price, only ten cente, can he deducted from the first order sent for goods. All parties any way interested in this subject should send at once to James Vick, Rochester, N. Y., for the Floral Guide.

Suesp require cato ; moro in fact than wa generally bentove on them; 80 mugis in fact that the now purchasing of $a$ flock of thorough-breds does not warrant the orlinary farmer in dubbing himbelf a full-fledged brecder of thomugh-breds. Tho writer has had some experionce in pure bred sheep; and has discovered how difticult it is to obtain anything near that point of oxcellence, in physique, and general dovelopment of frame and wool productiveness, of the imported sire and dnm. There are, no doubt, many causes for tho degenericy; but our olimate and country have nothing to do with it. Ono great cause is, want of management, and our not understanding tho laws of watering sufficiently, to improve or keop pace with our point of departuro-the imported parents. Noither is it quite reasonable to suppose that wo should. There are things that cannot bo learnt in a day, weok, montiz or year, no mattor how olearly the system may bo oxpleinod to us, and the art of watering animals, with a vier to improve in both sire and ram, is one of the things; but no matter how clear the law may have been to us, it requires years of continued experienco-exporience to learn something in connection with tho whole, and nothing but that experienco can give. This can be applied to lots of other things, ontsido of the successful raising of thorough-bred sheep. Whon wo hear of shuep weighing from $\mathbf{3 0 0}$ to 400 pounds weight, (alive) as we often do in Loicesters, Cotswolds, South Dorns, and particularly the Hampshires, the weight is not attained by the ordinary means of feed and care, but from the day of lambing to the day it carrias off a red ticket in the show ring, with it has been a continual feast of all the good things lambs and sheep fall heir to ; so that whon we see an oxhivition pen of bread backed, heavy fleeced four hundred pounders, we may be sure that they have been got up for the occasion; end woe be to the amateur breeder who buys from tho lot to start his floolk from, and great will be his disappointment if ho expected when buying them, with his care, he would be able to raise up a fook like theso he bought to commence with.

Tho above experience is my own, bought and paid for; so that up to date I am a failure as a breeder of theroughhred sheep. Still, I intend keeping on; and in time hope to learn that littlo somethiug, that I mentioned before, that is so hard to get: und then I hope to bs as successful as others have been before me. under similar circumstances; and that some day I hope to be ablo in truth to call myself a breeder of pure blooded sheep.

Although it is sach a difficult task to
keep your flock of thomugh-brole :ip in tho race of jainily competition, it is nut such a difficuit tusk to improvo upon our natives, and bring them up to an astonishing point of oxcellence in a yory short time. It is with pleasury that I have it to any that great improvement in sheep hus been effected within the uircumference of the New Glasgow Agricultural Soviety during tho past fow yeare. For instance, tho flock of Mr. Alox. McKay, (Squire's son) is worthy of notice. They are undoubtedly good. 1 sm satisfied he can show fifteen to twonty owes, ons to two yeara ald, that will clip to-diay, if put to tho test, from tivelve to fourteen pounds of unwashed wool; and I am safo in enying that five years ago, it would have troubled him to havo produced one to clip eight pounds. Last summer he sold lanks that at four months old drassed thiriy-five to forty pounds of meat. I myself saw a flock of one hundred sheep last season, and I have good reason to know there was not a solitary one in the lot that would produce as much meat as Sandy's lambs, and some of them were as many years old as the lambe were months, I have taken Mr. Mckay's flock as a sample. These are othys the samo; and, although not in sufficiently large numbers, yet enough to prove to us that py using thorough-bred rams with our native stock, we can produce that class of sheep, so much sought after by the buyers for the markets of the old world.

The above is a fact I would like to bring before the notice of our County Councillors, fearing that in making their award to the District Exhibition Fund they overlooked it.

Now to finiah. There are, say, 5000 farms in the County. Let us say there are seven sheep on cach iarm just for argument. Bake tinat would gire us a twat, in shecp in $_{4}$ of 35,000 Ist 4 supprios ve have 35,000 , trambs next spring, olf stiok ; that of the lambs te kill 10,003 , the reminining 25,000 te allow for jearlings. We will make up a statement in their behalf.-. Supposing them to be natives, it would about as follows: 25,000 yearlifys ewes, shecityl, average clip of unwashed wool-each, six poundes. 150,000 pounas, ist 18 cents'per pound: $\$ 17,000$; 10,000 lambis killerl, weighing each 30 pounds dressed mant: $\$ 18,000 ; 10,000$ laubs-8kins, washed, 20 cents each: 83,000 : This would give ns for the year $\$ 38,000$. Norr, let us taki 35,000 improved grades bnd from the first cross, and divided into wool and mutton. 25,000 fleeces of rool, suth as Mr. McKay's sheep yield, or a little less, syy, ten prounds of unvashed wool to the ficece : 845,$000 ; 10,000$ larmbs weighing 35 pounds dressed meat: 821,000 ; 10,000 lamirbkins, 50 cents: 85,000 .

In tho second year, from impmped breeds, it would bo to our credit: 871,000 ; by tho old system it would bo: 838,000 ; adding to our yearly income as farmers: $\$ 33,000$. If 1 am right in my calculations, and $I$ think $I \mathrm{am}$, it would be woll for the gentlemen, who gavo such an adverse opinion in the County Council, on exhibitions and there being a benofit to the farmer, to study theri up, and the causes of the improvements thint havo been mado so fas in our flocks.

The above is possible, and nould bo a probable fact in the near future, if two would only bestir ourselves, and work sharply. It would be woll for us to inform our representatives in the County Council, that, wialle we admire retrenchment and care in not allowing us to be drawn into financial difficulty, wo would like them to expreise their retrenchusent on some things of :2ss vital importance to their constituents than the cent nud a fraction avard made to the District Exhibition. At the first blush of thought, Short Line Railways and laind dnmages may seem of more ituportance to waste time on, than does the slow but sure and truo methods of exhibitions to improve the first and lasting industry of a country; and from the present appearance of things-full factories and no markets-agriculture is the only sure source of labor to look to for a fow years, unti! our glutterl markets of manufactured goods are emptied.-FABYER Joun in Euslern Chronicle.

On 22nd January Dr. Fowlis, Cairnes Lodge, Cupar, Scotland, opened his silo, or, to speak more correctly, displayed his silo nud eusilage, as practically it has been opencal for several weeks past. A Jarge number (nearly 100) of the principal farmers of the district and soms proprictors assembled, on Mr. Fowlis' invitation. Previous to iuspacting the silo they met in tho house, where the Doctor read a very able naper on ensilage in genoral, and gavo a description of his silo in particular. We note the following particulurs regardiag the silo. The Cuirnes Lotige silo is of the most simple and inexpensive character, and is simply duy $=2 t$ in a bank close by the steading. One end is flush with the ground, and the other end made up to the levcl, ine soil exeavated being used for that purpose, and the made-up purticns bsing lined with a few battens. This is the only outsido expense incurrad, the excavating being dono by the farin hands during slack time in siunmer. The soil being of dry firm clay, no building or cement was used, though we believe it is the Moctor's intention to brick a part of the silo before next season. A drain 18 inches
deep was hide beiow the iloor, and 3 feet deop on each side to catch surface water. The silo is 14 feet long, 9 feet wide, and 7 fect deep.

Clover afterzath wrs the aubstanco usel, and the silo contains twenty-hireo heaped cartloade, estimated to weigh a ton each. Tho silo was filled at threo separate fillinge, with a weok's interval ec. 1 l time. Light cartloads of dry grass wero first put in, and when this had sumk sufficiently soven loads of suakiag wet grase, and then six hiads nearly dry; and litterly other two were added. It is stated that in all 14 feuc of firmiy trampled grass were put into the silo, and now, as a result of the grent pressire and fermentation, this has sumk to 3 feet of firm ensilage. The grass was not chaffed, but put in as it came from the field, spread in thin layers and well trampled, eight people being employed, and also a horse when nea: tho top; 1 ton of sailway slecpers, 2 ton of pigiron, and 15 inches of earth were then put on, and the silo allowed to sottle. After three months it was opened, on January 2nd, and the dairy cows have used it since. The corrs are very fond of it, and to-day, when feeding on it in tho open paddock, they wore offered whole turnips, the bunches were placed on the top of the ensilage; but they put them all out and stuck to the ensilage. The yiold of milk has increased about 15 por cent, and the cows are in nice bloom. The quality of the butter is most excellent, equalling, if not surpassing the very beat summer make; being rich in color, soft in texture, and very pleasant tasted. When a portion of the silo was uncovered ro-day, thero was but the very faintest trace of mould, and the wholo had a dark brown color and a rich, malty fluvor. It was stated that the portion put in wat was hardly su good, but there was little ezparent ditirrence.

Much interest was evinced by those present, and although doubts were expressed as so its gencral use here, where turnips sre so successfully grown, still everyone seomed to regard the present experinient as a very successful one: and everyone apprecinted the teu and scones, with the excellent butter, the produce of onsilage, with which the Doctor entertained his visitors. W. Monton in Agricultaral Gazette.

Ir the question, what is mill? were put to the first hunured decenily-dressed people whom one chanced to meet in astreet lle probabilicy is tha' they would nuster in gome such fashion as this: "arilk is a whito linuid, which is proluced by cows and other anmale, and which is usen for mixing with tea and coffee, making puddingor, teeding babies, and other domestic purposes." And underlying this sufficiently practical detini tion we should probably find, if we pursued the inquiry further, the impression that milk
as it cones irom tho cow, is a liquil of pratty uniforss compoaition, which the owner of that accommodating animal obtame from hor in much chesmine way at we obtain wat fiom a pung, with the somewhat importantiliffurence that purchusing nad mainfaining the cow is consiilorably greater than that of matiog and trerping n purnp. But is both catos tho funilamontal illea would probably be that ailk freroolates through tho cow as vater dones tirough tho puinp, by Rome mysterious process of hature, aml without any njercial inferiention on the part of the proprictor of the nnimal, excapt where, as, is sumutimes tha coses bu confumes, no doubt in a fit of tuniforary abutraution, the proiluce of the cow with the inon tal with that of the thors co-ily quadruped, and thereby proluces an $r$ sult of which, untortunately for hion the law is apt to tako disagreeable cognizance. dhe hundredeh person to whom the ahove query was put might probably ruply in some such mannor as thas:-" Nilit is an oleo albu:ninous ligad of organic origin and variable comporition, which is valuable for nutritive purprases in consequente of its containing all the clements of a perfect diet in ant onsily digestible form, and in proportion to the anoun of these eloments which it consains; it is manulacturul by furnuers and athers with the sid of machines, which are called cows, out of gruss, oil cake, roots, anil other forms of vegetable raw material, and the consumer generelly receives what the tr-tater manufactures tor him in the eame happy igor-ance as to whether he is cetting vatuo for his zonoy that the farmer hisaself ofter exhitits in regard to the cost at which the produces the milk." Sueh at any rate would be the sort of detinition of smilk which would bes given by anyone who appreciated the precise nature and origin of this most anciunt of diutetic mecessariss, and the very closes anulogy which it bears, in regard to sts proluction, to b asil, checese, calico, cluth, and othar articles of daily use, the quality and valne of shach is knomn to vary hargely according to the way in which they ure «unnufactured.

Ifet us commence, then, with the consumer. Let us refresh our inmmories with a brief survey of the composition and character of milk, so that we may see what ane our reybiranents in regard to there points, and how we misy asure ourselves that we fre obthining what we want.

In the tirst plase it is woll to note that, taking milk of average quality, 870 parts out of a 1010 (2.e nearly 90 per cent.) are uere water: or, to put is in ancother way, a pint of tulk will cuntain only ahout 2 oz of water froe nutritive material, or 1 Ib arwirdupuis of sucl material per gatlon; which, at the orinary prices painl by the consumer-is... 4e. per quart, gives lod. per lb. as the cost of the watir-frec consfitucnts of milh, anil enables us to conprure it in this respeet vith mosat Nam aswuming 100 per lb as the price of an orilinary j jin, yuch as a leg of mutton, and all wing 20 per cent fur lunt, stin. and oflore constibuents which are prectically morthless for nutritive purjexex, and then taking into account tho fact that even where the whole of the nutritive natiter is retained in the process of cuokinge nearly 75 per cent. of whint is left to us is utere water, wes shail find that the cost of such meat, when it comea to be applied as suitable coateral for the purpose of alimentation in our bodies is something over 9s. per lh. of
waterdry constituents. Kegnrded from this point of vien, milk comes out very favombly In comparison with muat but, of coursu, the value of this ertimato requires to be circoked by nn examination of what these eratnrofice conatituents in each case are Or tho 23 parts of waterdiy thaterials whioh are containes 311 every 100 by woight of ordinary cows' mulk, a li the more zhan four consist of fat (butier). abous the amme quantity of albuminuid substances (chtefly casern), hearly five purts are fugar, had but half a part is coinposed of various ailts; or, to put is in an ensily-remambered form, the saccharine, Hibuninnod, and fatty conatituents are pre. arent in hbout equal proportions, the sugar benteg a little in excers of the chuesy elument, and the latler a little in excess of the butter. So that, puting the salis-whosu actual cost, if purchased in another form. weuld be very trifling-out of the tuention, it wo mere to mix alry cheose, white sugar, and fat (auch as beuf dripping or lard) topether in equal proportons, we should have a compound whese nutritive value would pretty nearly eq al that of the water-iry constitiments of milk at 16 il. per 1 b . Now cheese contains $n$ liste more thas one-thlril its wuight of wator, so that wo miny take it when deprived of this elennent to be worth 1s. pur Ib. ; and assuming 4d. as the price per pound for sugar, and 8d. for tlat of beef dripping or lant, we find that the total cost of our ailk substitute would be 2s. per pound Ilence it is clear that we havo in milk a much ciseap er food compound of that composition than we can obtain in nay cther syay But in discussing the nutritive value of milk, and especually in comparing it with muat, it is necessary to bear in mind that however well suited it may be, from the large relative proportion of fat and sugar whuch it coplains, fir the nutriment of young alimals in which these elemente are required to aupply the demanis of growth, it is not so well adapted for that of aluits, especially where the conditions of the strughle for existence involve the noccasty fur constar:t repare of the waste whioh takes piace in the albuminoid or muscular elemente of the borly. T'o supply 23 uz. of materficee food, whicl is, according to l’arker, one days allowance for an alult, about 11 pints of milk would have to be consument, which would reprosent not only an excessive amount of sater 10 swallow. but iar more fat than could bo usefully cuployed by the syotem.

When we turn to oar pound of water-l!'y meat-stuff, wo find that invtead of its anntainmg 38 per cunt. at 5 ... there is onl; nbuat 20 per cent., though this will, of sourse, vary with the amount of fat that may be uxidently combund with the meat, and that nearly the wholy of the sesidue is albumanoid matter, the amount of salime material being a lathe in cxiess of that of pilt It follows, therelore, that taking these frents into consuleration, milk, louked at an an exclusive food stuff for an adult ammal, is very litte, it any cheapur, than maat at lud. per lb. But makn we: ecoullect that by supplementing the deficiency af albuminoid material in anilk by corresponding material derivel from the vegetabie world, as we do, for instance, by combining bread with it, we can easily sec how, at a comparatively small satditional cust, we can so modify milk as to make it the basis of a diet which is far cheaper than animal food nud equally nustitious-Agricultural Gazetle.

## davertisements.

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