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Published under direction of the Board of Agriculture of Nove Scotian

Paces

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The Ontario Exhibition．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 12 Garden Hinth for tho Sceson－Flowe：Garden－－Fruit Garden－

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Halifax，12th Seph， 1872.
In March last the Board of Agriculture pointed a Committee，consisting of Jos． Northup，Esq．，President，George S． مrin，Esq．，of Yarmouth，and Professor irson，to make purchases of thorough－ fed Stocks this autumn．In course of a IV days these gentlemen will proceed on airmission．Theyintend to be present at P Massachusetts State Fair at Framing－ em on 19thinstantand thereafter to visit me of the principal breeders of Ayrshire dd Devon Stock in the New England Fates．They then proceed to Hamiltor， at，whers the great Annual Exhibition to bo held this year on 23rd Sept．and llowing days．The New York State ＊ir at Elmira will be risited during the置t week of October．Opportunities ill thus be afforded of secing a very ge number of the best animals owned the United States and Canaila，and of iking edvantageous purchases．The smmittee are desinous，if possible，to fing，this season，a selection of animals perior to any that have over been brought
beforeinto the Proviace．The importation will consist of about 8 Durham Bulls and 2 Heifers， 6 Devon Bulls and 2 Heifers， 6 Ayrshire Bulls and 2 Heifers， 10 Leicester Rams and 2 Ewes， 5 Shropshire Rams and 2 Ewes， 5 Cotswold Rams and 2 Ewes．

The animals will bo sold at Halifax，by auction，between tho middle and end of Ociober．Due notice of the day fired will be given in the newspapers；bat we hope distent Societies will at once make their arrangements and commission some one in the city to make their purchasers， or else send one of their members for that purpose，After the Stock arrives there will be no time to get up subscrip－ tion lists，collect money and discuss reso－ lutions．

A discount of 10 per cent．will be allowed to purchasers from Cape Breton， and of 5 per cent．to other purchasers who reside at a distance of not less than 30 miles from a Railway Station．
The Commtttee have also been in－ structed to obtain inforibation respecting
improved Farming Implerents，and the results of their enquiries will be made known at the October meeting of the Board．

## THE ONTARIO EXHIBITION

Through the kindness of Hugh $C$ ． Thomson，Esq．，Secretary of the Agri－ cultural and Aits Association of Ontario， we havo received the Prize List of the forthconing Exhibition at Hamiltons from which wo extract the general Pro－ gramme of Arrangempl＇ 8 ：－

1．Monday，Septemarr 23rd，will be devoted to the final receiving of articlen for exhibition，and their proper－arrange－ ment．Officers and members of the As－ sociation，judges，exhibitorn，delegates， membars of the press，and necessary at－ tendants，will be admitted on presenting the proper credentials，badge，or tichet of admission．Otas persons will be ad－ milted on payment of 25 cents each time． The rules for admission will be tho same throughout the ezhibition．

2．Teesdat，24th．－The judges in all the classes will meel in their reapective Committeo Rooms at 10 s．3c，and will make arrangements to commenco thair duties．On reseiving the class books，
they will nlso he furnished with the blank prixo tickets, which they shall fill up and affix in each section so soon ns they shall have fitally determined their awards. The Firat Prizo Tickets will bo Red ; the Second, Blue ; the Lbiyd, Yellow; the Fourth, White; Extre, Greer. ; the "Highly commerided", and "Commended" Tickets, White, On completing the class, the judges will feport to the Secretary. The -main exhibitiou building will beg closed sull this day, for the purpose of affording the juiges an opportunity of disebarging their duties pruperly. Non-members admitted to the grounda on payment of 25 cents ench time. The Aniual Xreetiog of the Fruit Growers' A descinay on will take placo at the Court Howise tey po s.
 the various classè will comptete theit: a arards ag early-int the-das as penible All th, buildings aña grounds will be open to visitors. Admission the same as on Monday afid, TMeGay, 'The Annual. Meeting of the Mechauicg' Institute Association will take place at the Court House this. éfening at 7 o'clock.
4. Truzsdar, 26 ch .-Admission, 25 cents. The Prize Auimals will te exhibited in the ring at 2 P. s. The Annual Meeting of the Directors of the Provincial Agricultural Association, for the purpose of electing auditors, deciding upon the place of holding the next exhibition, and other business, will take place at 7 r. M., at the Court House, Hamilton.
The President will deliver bis address at the Annual Meeting.
5. Friday, 27th. Admigsion the anpe as on previous days, till 2 p. м. At 2 p. 3s, the exhibition wi'l be considered officially closed, after which no one will be admitted into the Crystal Palace, and exhibitors may conamente to take a awixy theít property.
6. Satubdax, 30th.-The Treasures will'cominthce paying the premiums at 9 x . Mr. Eshibitors will remove all their properiy from the grouids and buildings. Thie gaies will be bepi closed as loug as neceessarfy, anil none will be admitteती except those who can show that they have busipess to. atterd to.
A Cataloguie of all the Ėntries of Animals and Implements will be prepared, and will be on sale at the Grounds. Priće Ten Centí,

## grand provinclal ploughing митоввs.

Nutics is hereby given that it is the intention of the Council of the Agricultural and Arts Assoíiation of Ontario, to hold: swo Granid "Provincíat: Ploughing Matches, this Autumn, or sucti Cays as maÿ:be hereater decidèr upon; 'subsequent to the date of the Provincial Exhibition; one in thé eastern zond one in the reistera section of the Province.

The sum of Four Hundred Dollars will we offerentin Brizes by the Association in each locality that may bo sel-cted. Imploment imandưfaciurers suitiothers aro nviecel to ofigr suppleméntary special prizes, if they desire to do sor .
Tenliers will bo received up to list Septomber, of fiehis, of not less than 30 acres of land, for each match, the eastern to be within 20 miles of 13elvilla, or between Belville and Kingaton, and tho westorn within 20 miles of London, if practicable. Full particulars as to Prizes, \&c., will be published in due time.

Huer C. Thomsón;
Sec'y Agri. and Arls Asso.
GARDEN HINTS FOB THE SEASON

## (Firom tho Gardeners Mionthity.) <br>  aROUND.

It has been for manf agay cuatomars Witith maity minds to associate excesstve heat with the eterual sum of all evils, and to julge by the closen few who.fy from the wrath to come; in every closely built city, from the sweltering heats of August to the conl sea side breezes, or to shady retreato in conotry places, there is no doubt this terrible city heat is a great trial, and may fairly be considered as one of the great recruiting agents in the constantly increasing army of lovers of country life.
But this heat which gives so powerful au impulse to country prefereuces, should teach the professional Horticulturist also its lesson ; and that is, in laying out and designing country places, one of the chief studies should be bow to make a place agreeable even in the hottest weather.
Not near enough attention is given to this matter even by many experienced men. Large plats of hard dry shadeless gravel, walks, and struggling flower bells, make up the gardening of by far too many places, the continued effort to keep ivhich in order without much compeusating advantage, makes many soon tire of what is thus miscalled " Plearure" Gardeniug.
Gardeners often express wonder that so and só with "pleu'g of monèy" takes no interest in leeping his grounds nice. Only a deep-seated love of country life, battling against discouragemente, can keep so roany in the good path that we find in it ; and this, not because there is no enjoyment in country life, but because. few study out properly the meuns to effect the good ends. Wo imitate too much the European styles of gardeniug, forgetting that our peculiar circumstauces reguire peculiä treatment.

In all suggeations for the improvement of grounas, the subsequent cost of keepin order should be studied well. This is the rock whereen so many strike. Walks
anl ronds aro particularly expensivo to mainenin, and olould never be mado unless there is movident necessity for thow. Shudy grass walks, thith másses of flowering stribs on each sida, and kef , mown a few times a year, nre as pleasurable pdrts of a pleasure ground ne call well bo provided, yet wo very seldom see thom employed.
Rustic arbors, as they are usually made, are very mean things for summer cotufort. They are to close and hot. They suit European climates better. They should be open all. round.
Tho best arbors, howeyer, are made by the weeping ash, grafted high; Buid spread out well, but not allotrid so have their branclee hang too low down A circulation of air all routhtis essential to the comfort nfan arbor.
So many fall inlote fith trise conitry, and about this time make up their-minde to permanently reside, that these general sjggebtiong way haye, gome yalue. Wo frill now give some more particular direc tions for garden work, whicls may help those who have already commenced.
In preparing the grounds, it should be remembered that $£$ lss and irees are not only required to grow therein, but that they must grov well. The top soil of the lot is often covered by the soil from the excavations, trusting to heavy manuring to promote tertility. But this is a too slow and expensive process. The top surface soil should, in all cases, be saved, and replaced over the baser soil. Also, where it is necessary to lower a piecc of ground, the top soil should be saved to place over again. The deplh of the soil is an important matter, both for the trees and the lavin. It ghould be at least eighteen inches deep. In shallow soils, grass will burn out under a tew days of hot sun. In a soil eighteea inches deep a lawn will be green in the driest weather. For the sake of the trees, ulso, the ground should be not only deep, but rich. If from thirty to forty loads of stable manure to the acre could be appropriated, it would be money well- spent. Life is too short for it to be an object te wait too long for trees to grois, aud planting large ones is an expensive, as weli as unsatisiactory business A tree in a rich and deep soil will grow as much in one year as in five in a poor one.: So in preparing a lawn, it is fortunate that while aiming at the best effects, we are helping our trees also. It is generally better to sow for a lawn than to sod, where much of it has to be doue. The edges of the road must, of course, be sodded, the halance neatly raked aver aod somn. The best kind of grass to be emploged in seeding is a dispatell pointi, and it will, no doubt, depend in a grieat measure on the locality. In Philadelphia and northward, the perennial rye grass is excellent. It commences to growp -very early, and
bas a peculinr lively, shining green. South of Philadelphia it is very liable to get burned out in summer, and tho Kentucky blue grass wouldi bo much better. It is much the best to have but one kind of grass tor a lawn, provided it is suited to the locality. A mixture of kinds is apt to give a spotted and variegnted churnctor, not at all pleasing. Some peoplo tike to see white clover growing thickly in a lawn, and others ohject to auy thing but green. However, if a good grass rako is employed freely in summer time, the heads of these flowers may bo kept from expanding. Where there is a prospeet of a month of growing creather, lawns may stlll be sown with grass seed, -tho clover, whore used, to be kept till April or Murch next. A small quantity of rye should he thinly sown with the grass, which, hy the sliade it affurds, will prevent the gruss from being thrown out by frost. The rye must of course be closely cut in the spring, to allow the grass to get ahead of it.
It is somewhat remarkable, that with the great love of cool slandy spots which our climate excites in all of us, more nttention is not given to making towers of living trees than is customary for us to do. We have "sumbier houses" in abundance, but these are saldom cool. If they are roofed, the heat radisted from the under surface anakes it, very hot, unless the sides are open all around; andif the sides are thus open, the sun at all hours, except mid-day, trespasses on our enjogment. Besides this, as a matter of taste. summer houses, as we generally see them, are sadly out of character in relation to their surrounding. In some of our best parks, where there is indeed a great deal more than mere pretension to landscape gardening, the "s summer houses," as they ars called, too often mar the effoct of the whole thing.
The green masis is in keeping with other trees, and the crowding necessary to accomplish the desired shade, can often be turned to the very best account. This is especinlly the case when weeping trecs are employed. The pecaliar drooping hahit comes into play in numerous ways in the hands of a good landscape gardener. Of the fast growing things of this king, and where the pasition is not particularly choice, there are few things more useful than the Heeping Fillow. For more select places we suppose there is nothing botter than the Weeping Ash. Indeed, taken all in all, it is one of the best trees of this kind wo have. The branches can be trained over wires, and thus we can make the room beneath the tree as extensive as one coula wish. For very large spots, a half dozen or so cau be used. Set in one circle, and the trees about twenty feet apart. Such on arrangement would make a delightful croquet ground, $\rightarrow$ or a place for parties or
picnics-entirely in the shade, yet with an abundance of room and air all round. The Kilmarnock Weeping Willow, if grafted high enough, would make a very pretty shade for one or two persons; but as they generally are, they are not worked over five or six feet high; and thus we have to be sutisfied with them as the lovely little ornamonts twe see on our lawns.
Recently we saw a very pretty thiug formed out of halfa dozen Japan Catalya -Catnipa Koompferi. These seem to grow only from fifteen to twenty feet high, and the bratches form a dense mass overhead. appearing is: leaf ws if the whole surface thad been closely sheared. When not too closely confined, the whole stem pushes out leafy brapches. A half a dozen of these set out by themselves, and trained up to singla stems, will make one uniform mass of foliage if left to iteelf; and gothic arches, or arches of any'bthibr form, can be cut betweens each pair of trees. The leaves around euch iree stem can be left two or three feet wide if desired;-"arid the whole can be made to have a remairkably unique effect.
The plajpting season' will soon come around, and now is the time to look about and select the desirable kinds, and to decide on the proper places to set them.
It may be well to repeat what we have scid in substance before, that the latter end of Augnst is one of the best seasons of the year to transplant evergreeng. The young growt of the past season has got pretty woll hardened, so ss to permit of hut very little evaporation,-and the earth being warm, nes roots push with great rapidity, and the tree becomes established in the ground before caol qutumu winids bégin. The chief difficulty is that the soil is usually very dry, which prevents much speed with the operation; and the weather being usually very warm, the trees have to be set again in the ground almost as fast as they are taken up; so that, it is not safe to bring them trom a distance. It is as well, therefore, to make all ready in auticipatian o: rain, when no time may be lost in baving the work pushed through. Should of speil of dry weather ensue-which in September aud October is very likelyone good watering should be given, sufficient to soak well through the soil and well about the roofs. A basin should be made to keep the water from running nivay from the spot, aud to assist its soaking in After being well watered, the loose soil shon'd be drawn in lightly over the watered soil, which will then aid in preventing the water from drying out soon again.
As sgon in the fall as bulbs can be obtained, they slould be planted-though this will not generally be the caso till Octobar,-but it' is as well io bear 2 it
mind that the earlicr they are planted, the finer they will fower.
Towards the end of the month, and in September, overgreen hedges ohonld ro: ceive their last pruning till the next summer. Last spring, and in the summer, when a strong growth required it, tho hedge has been severaly pruned towards the apor of the wedge-bike form in which it has been trained, and the base has hnea suffered to grow any way it pleases. Now that, in turn, hass comp under this sliears; so far as to get it into regular shape and form. It will not be forgutien that. to be very successfiul with evergreen hedges, they ought to have a growih at the base of at least four tiet io dianeter,

When White Lillies, or any other spring-flowered bulbous plants have done nowering, aud the stems died amay, they should bo taken up and re-set; the disenso in Lilies often meét with, is probably caused by their being too long in onio place.
Host of what is to be done now in thit department consists of the routine dutié of neatness,-tying up, pegging down, ret moving faded blossoms, coilectiug and ded. stroying insects, etc.

Many suffer their flowers to produce seed, but this injures the flaworing. If it be particularly desirablo to save seed of some things, allow only just as much to ripen as wili be needed. In some caseï, cutting off the flowers as fast as thej fade doubles the season of flowering:

Auriculas, Polyanthus, Pansies, Daisied and other of these carls fowering, half hardy plants, commence their root growth nbout the end of this month, when the time has arrived for ceplanting. Good fresh, and yet half decayed, sod from \& pasture field, is the best to grow them in. Those who bave the advantage of pota apd frames, can re-pgt also at this вeason.
frujt gard ans.
Another and most bountiful year is highly encouraging to the fruit groper. He must now take care that exhaustion does not follow. Tbe wise archerdist has thinned his fruit at an early stage of growth, and will now be looking round for material to fertilize them with. It is not too late to do it yet to ndvantage. We should sadacice-dress with insaíre, compost, or rich materiale, any time ber tween now and frost; but the earlier the betier. There is not much use ip putying it on after the soil is frozen. Raing waah its best portions amay. As to kind of manure, it makes little difference. If tho surface is not disturbed mach, tho riches the surface soil the betier. We have noticed but little difference between animal manure and mineral. Some of the best and healthiest treeg ve know, stañ near the manure heaps in Sarm yarda.

A little lrimming is usfal to mogt trees at this घéason." Tho Blactiberry
and Raspberry may bave their tops shortened so as to leave the canes about four feet. Some do this carlier in the season ; bal the buds aro apt to burst if done too soon. In like manner, pear and apple trece that grow well, but produce no fruit, are benefitted by baving, say half of some of the yotugg growth cut back. The buds then left are very likely to form fiower bads, in place of growth buds fur next season. Many take out the old shoots of raspberry and blackberry after they have done bearing, and we havo in times past recommended it ouraelves ; bat on forther observation, we see very little good, if not positive injury. The partial shade the old steme make, seems rather beneficial than othorwise ander oar hot suns.

## VEGETABLE GARDEN.

As soon as your vegetable crops are past kitchen use, clear them ont. Never suffer then to seed. In the first place, a sced crop exbausta the soil more than two crops taken offin an edible condition; in the next place, the retuse of the kitchen is likely to produce degenerate stocks. Good seed snving is a upecial art by ittelf, always claiming the earliest and best to ensure a perfect stock.

Celery will require earthing op as it grows, to get it to blanch well. It is not well, however, to commence too early, ss carthing up tends, in a slight degree, to weaken the growth of plants. Take care, also, not to let the soil get into the heart in carthing, or the crown is apt to rot.

As fast as Endive is desired for salad, it shonld be blanched. Mratting thrown over is the best for this purpose, as the plants are not so liable to rot as when pots or boards aris employed.

Its cold or mountainous regions, Melons are hastened in the ripening process, and improved in flavor, by a piece of tile being placed noder the frait.

Keep weeds from your cnapost heaps, as they exhaust the soil, and bear seecas for futare brow-sweatings.

## BEET-ROOT SUGAR.

On several occasions we have called the stsention of our readers to the efforts heing made in Europe to extend the production of Beet-Root Sugar. The following article, which we extract from the Canada Fiarmer proves a useful resxme of much that has elready beau published:-

If appearances are not deceptive, the production of beet sugar seems destined to be one of the important jindustries of the future; both in America ajid Britaiu. In the former country Professor Goessman, and in the latter Mr. Crookes, have
recent? endeapoured to show that it is quite possible to grow sugar-bects with profit,and the evidence, though still scauty, scems amply to bear out this assertiou. During the year 1867 beet-root sugar to the valuo of oue million six hundred thousand pounds sterling was imported into Britain, and there seems to be no reason why this large demand should not have been supplied from home sourcee. It is by no means requisito for the successfal prosecution of this branch of agriculcure to grop monster roots. On the contrary, tho weight of each root should not be more than two pounds, because the Jarger roots are watery and poor in sugar ; uor should the roota fall ghort of one aud a quarter pounds in weight, as the smaller examples are frequently woods. The juice should have a specific grapsty of from 1.060 to 1.070 , though sometimps, when very rich in sugar, it rises to as much as 1.078. The percentage of sugar in the roots varies consideraly, the, minimum quantity being 9.62 , whilst the maximum is 13.47. The next number below this maximum is 19.19 , and is of interest as representing the amount of qugar found in red beet manured with London servage. Feligot obtained as muct as 18 per cent. from some Freuch beete, and some American spicemens have produced nearIs the same percentage-an amount, therefore, considerably ahead of the best English samples. In Ireland from sixteen to forty tons of roots may be grown to the acre, so that very satisfactory resnlts might be anticipated in that country. On the experimental farm of the Massachusetts Ágricnltural College, on the other hand, the amount of roots raisel per acre fell short of twelve tons; but there were opccial disadvantages and difficulties to be allowed for in this case. Calculating from the average vield of a five-hundred acre farm, it is estimated that the producer should possess machinery capable of working up oue hundred and fifty thousand pounds of heet-root every twanty-four hours for fire mouths. Such a factory would require nearly à thousand cubic feet of water per hour, and the first outlay for its establishment is calculated at momething over tifty thousand dollars. The prolits arg calculated ai nearly twen-ty-fivo per cent on the outlay, with six and a-half per cent of sugar increasing the profit seven and a-lialf per cent-so that if eight per cent of sugar could be obtained the profit upon the original oatlay wonld not be less than forty-eight per cent. By the concreting process of Mr. Frjer, as applied to the raw juice, the refinery can now be carried on during the whule year, iostead of only duriag crop-time; and the spent beet-root pulp left after the extraction of the sugar woula appear to be a valuable food for stock. Indeced so far as chemical analysis goes, this pulp, when mixed with other materials, should prove
a more usoful food for cattle than ordisyary mango!ds; but this point can only bo properly established by a series of properly couduated comparative experiments on feeling. As regards the Uuited States, it has been argued that the cultivation of beet sugar can never prosper, since the difference in tho price of American ant European labour renders hopeless all competition with foreign producers. This argument is vigorously met by Professor Goessman, who remarks ns follows:-
"Althougt duly recognizing the great weight of this poiut, for which the farmer rebta the succes, of the enterprise in the end, I believe that its influence as an obatacle is frequently overrated and based upon somewhat obsolete assumptious. The gover̃ument tax of from $\$ 40$ to $\$ 50$ per acre on sugar beets in Germany and France, as wall as our bigher prices of sugar, will go towards covering our more expensive labour. The interests of the Louisiana augar planters and the augar beet cultivators of more northern sections of the country are the same, as far as a proper protection of their industry is coucerned; and the public opinion, in view of the requirements of the governmeats, is apparently prepared to accord to them, for some time at least, this advantage. Great improvements in agricultural implements and in modes of securing the juice have reduced labor by hand to a considerable extent. A short enumeration of the most conspicuous instances may place this statewent in its proper light. Various seeding machines, improvements more or less on Garrett's famous seed drill, are used in planting the seed, in four or more rows at once, and at any desired distances from twelve to twenty jaulhes apait, According to the size of the machine, oneor two men, with one or two horses or oxen, may seed from eight to sixteen acres per day; the same implement can also be moditied by replacing the seed boxes pith suitable lonives to be used ay cultivators, to clean the space between the rows of plants, and to cover the roots. Ploughs wilh two linives are used to break up the soil on theth sides of the rows of beets, to loosen the sai' ur in such a manner, without lacerating them, that children may do the harvesting of the roots. In fact, the whole poork in the field, after the soil is ouce groperly broken up, calls for no extraordinary labour. A. good deal of the work can bo done by boys. Machines do the washing, the grinding or cutting and general haudling of the roots to the centrifugal apparatus. The task of handling the pulp of beet roots for the press requires, comparatively speaking, a large supply of hands to do the business counected with that process, but Robert's diffusion method dispenses with a large number of the bands formerly required in the press room-nearly one belf."

## BEET SUGAR SUPPLEMENT.

Cost and expenses of rabour, and general ebtimates of one of the great beet qugar factorieb of ed-hupg.-This is copied from Crocky's work on Bett Sugar, which is the best and most relinblo work yet pablished in English. The reader will see that the allcrances for Wages and Salaries are most literal.

The Factories work day and night, and the wages are reckoned at four shillings sterling per shift of 12 hourn, which for the old country is very high. 'The amount of Beet roots worked up in this Factory is twenty thousand tons in a season. The following ia Mr. Crocky's language and figures:-w With perhaps the exception of two or three men, no skilled labourers are requfred in New Beet Sugar Works, as most of the operations are of a simple mechauical nature, exsily taught to inexperienced country hands by a competent superintendant and his overseers.

The only skilled hands really needed are, an Eugineer, au hydraulic pump man, a defecater, a sugar boiler, and a bone black burner. Ot these the defecater and sugar boiler should have already had some experience in a Beet RootSugar Factory."

We have added as a separate item, the necessary additions to be made for the extra salaries to be paid to specialists in the various depariments.

The calculation is based on a campaign of 100 working days.

Waghiva and pulpisa.
Transportatiou and washing of the Beets
14 men 2 shifs per 24 hours, 8800 sterling.
days labour at \$s..................... . $£ 66000$ PRESS DEPARTBIENT.
28 men 2 shitts per 24 hours- 5,600 days
sat is....................................... 112000
Sack washing and draining; 8 women 2
shifls, 1,600 dsys at 4s................
shilts, 1,600 days at 4s.........
8 men par $2 s$ hours-equal to 800 days
lsbour at $45 . . . . . . . . . . . . . . . . . . . . . . . . . . ~$
scossa.
6 Mren for 24 hours, 600 days at 4s...... $£ 14000$

Monte jus, (that is steam pump men)................. 40 0
Preparation of Carbonic Acid, (i. o. from
the Charcoal. ...........................
$40 \quad 0 \quad 0$
FILTRATHO:
3 yen every 24 bours, at $4 s . . . . . . . . . . .$. CONCENTRATIOM.
a lfen every 24 hours, at 1 s............... 8000 joilina.
ji Men every 21 hours..................... $80 \quad 0 \quad 0$ Cixstallization asd centhifugals.
1,500 days' labour......................... 30000 oentration of stensi.
2 shifs of 3 men, 600 days, at $4 s \ldots \ldots . .12000$ breaking axd packizg.
5 Men at 4 s................................ 10000 SER IM THL YANDS, ETC.
5 bfen at is............................... 10000 masagement.
1 General Superintendont and two over-
secir ................................. 800 0 820 0

## RETRAB.

Carpenter, Pumber, Smith, 3 men..... 30000
Extra pay ski!led labourers. .............. $600 \quad 0 \quad 0$
General total cost of labour for onc year's
Camprign.............................. 5 5,100 00 The quanity of coal consumed in such an cstablishment as wehave deseribed, would averago 600 toms, which, at $16 s$.
per ton, would cost.................... $450 \quad 0$
The bona blacks, 30,000 lbs., would cost yor the first outlay $2 \frac{1}{2} \mathrm{~d}$. per 1 lb ., $£ 312$ 0s. 9d., but in succeeding years would only amount to replacing the waste.

The lime used would amount to 4,500 bushels, and $£ 280$ 0s. 0 d.
The ccst $15,000,000 \mathrm{lbs}$. of Beet root to bo woiked up into Sugar would at 123.
per ton be.................................s.s00 0 ANNUAZ EXIRRSES.
Summing up the nbove we calculate that the yeari's expenses will amount to:
 Coal
Boncblack Waste............................................................. 0
Lime.. 230
Purchase of iect rcots.
Add 20 pur cent. for incidental.
We haye \& total of. . . .......... $£ 12,620 \quad 0 \quad 0$
To which has to be added Taxes and In-
surance, which we have computed at. . 40000 Iuterest on capital invested ............. $960 \quad 0 \quad 0$

Braking a Grand Total of........ $£ 13,980-0$ The total cost of erecting the works for
the above factory, is given at.......is13,157 00
This factory is fitted for the manufacture of Sugar from Beet roots, for the produce grown on 500 acres of ground, which ought to produce at least $1,200,000$. One million two hundred thousand pounds of rav Sugar.

## zesilization.

I he products to be realized in our example of a Sugar Manuiactory would be as follows:-
Sugar from 15,000,000 lbs, of Beets
at 8 per cent ofSugar,-tho Sogar
being sold at 24s. per cwt. (of 112
lbs.)..........................................4,400 00
2,400,000 lbs. pulp calculated at $\frac{1 d}{}$.
per lb...................................620 0
5,000 gallons of molasses at $40^{\circ}$ Baume
nt 18. per gallon.......................... 250 0 0
Residues as fertillizers.................... $200 \quad 0 \quad 0$
Deducting annual expenscs and interest
as above. . . ........................13,980 00
Leaves \& net annual profitof......\{8,490 00
There is every renson to believe that with careful management the quantity of sugar vill range as high as 10 per cent, instead of 8 yer cent, which we have taker as our basis.

In such a case the net income would be $£ 24,470$. \%. $0 . ;$ and the net annual profit £10,090. 0. 0 .

Other authors make their calculations on an ontirely different hasis,-and arrive at results equally favourable, though somewha: in detail.

That the above is not too sanguine a view to take of the probable gield is shown by the fact that duing the season of 18681869 in the Zcllvereign, $2,500,000$ tons of beet root produced 207,500 tons of sugar, a retura of 8.40 jer cent.

The foregoing quotations speak no doubt of laud in the highest state of fertility, and which has been manured for years in the most scientific manner, and also, there is no doubt, of Innd which has been specially selected for tho purpore, and which by ropeated crops of lieet root very well manured with the refuse, and the results of the cattle futtened, has been brought into the most favourable state possible for the crop.

One of the most remarkable features of the growth of the sugar beet industry is, the constant!y increasing crop and yield per acre which the proper culture of that crop produces, not only in the amount of roots grown per acre, and their richness in sugar, but also in the coustunt it:crease of other crops paricularly wheat throughout the district.

## HIGHLAND AND AGRICULTURAL SOCIETY OF SCOTLAND.

The nnnual meeting of this fiourishing and influantin Society wns held at Kelso under very favourable auspices. The wenther, which had been somewhat threatening, gradually improved, and the stock and implements were all placed on the ground in excellent condition.
The original type of Shorthorn was found in the valley of the Tees, but ther good qualities were much developed loy the Alessrs. Colling, whese cattle were specially remarkable lor their rapid and lage growth, cumbined with aptness to fatten, symmetry, good temper, mellow handing, and gay colors. They have gradually acquired a worh-wide celebrity, and have. .1 a large manner displaced the Hereford and other breeds, once umrivalled south of the Tweed. To keep the breed of the Durham, Teesvater, or shorthorned breed pure is an object of great importance, and at the Highland and Agricultural Society the first prizes are always given to bulls and cows of this stock.
There were 16 bulls shown in the aged class, and among them were three that had been conspicuous at the Cardiff Show of the Royal Agricultural societt:
In the class of aged cows there were ten animal shown, all of good quality, and the 1st prize was taken by the Duke of Buceleuch; the 2nd and 3rd going to Northumberland. For 2-year-old heifers the Duke of Buecleuch was again 1st; Mr. Jobn C. Toppin, Muggrave Hall, Penrith, 2nd; after which same the Marquis of Tweeddale and Lord Kinnaird. For year-old bejfers the Duke of Buccleuch again stood foremost of 16 competitors, and this whole elass of stock looks very promising.
Polled Angus, or Aberdeen cattle, are not reared in the district where the show wa : held; and the show was not very large, but the quality was unexceptionable. The exhibiters were all, or niearly all, from the noith of Scotland. The 1st premium, for bulls of any age, was carried off by Sir Thomas Gladstone, of Fasque, and this award was universally approved. There were seven 2 -ycarold bulls and eight jeanolds. A couple of 2 -year-olds belonged to Mr. M'Combie, M. F., both of which were commended. For cows of any age Mr. M'Combie carried off the Ist premium, with a beautifu! cow, Chamer, aged ine years
and fiyo months. Sir Georgo McPherson Grant, of Ballindallock, took the 2nd and 3rd prizes, and nother of his animals was commended. In 2 -yenr-old heifers thero were also sols:u excellent beasts. Of tea year-old heifers Mr. M'Combe sihowed three, one of whicin took the first prize, and another was communded.

Of Gallowny cattlo there wras only a modium show, but anong the exhibitors were most of the well-known breeders of that class. Prominent among the prize-takers was the Duke of Buccleuch, whose Drumlanrig estates are suitablo for this class.

Ayshires were numerous and offair quality. For the best bull, Sir Michal Shaw Stewnrt carried of the prize. In the secoud class, the Duke of Buceleuch camo in for the second premium.
There was also a gooll representation of Highlanil cattle, which have a grand nppearnnee on their native hills, but seem out of place in a showyard. Some animals of great size were exhibited as extra stock.

The show of horses was good, and of Clydesthales in particular there was a splendid shovr. Mr. David Riducll, Kilbovie, Duntocher, Dumtries-shire, was the most successful exlibitor, and in the first class showed a noble animal, "Prince of Wales," which has on all oce:sions distanced all competitors. It is a magnificent horse, and has splendid action. It is a brown horse, six years old, bred by Mr. Fleming, Knockdon, Maybole.

## manures.

We find in the Truro Sun of the 8th of August, a suggestive and useful article on the subject of Manures, from the haud of a gentleuan who writes under the name of "Cloverdale:" His commutication is specially intended for the farmers of Colcliester, hat contains so much common sense in addition to its special suggestions, that we have no doubt many of our renders in ollur Conuties will be glad to peruse it:-

In previous articles I have endeavored to draw the attention of your readers to the quality of the soil in this part of the Province, aud to the necessity and method of thorough drainage. I hope they will at this time accompany me in an examination into the nature of ordinary farm manures. I wish to point out to them, that by the most certain laws of nature, our hest manuses are liable to wholesale waste, aud are continually wasted, through undue access of air and water; and that these, alhough chief agents in producing regetation, become, to the neglectful fars mer, subtle and unscrupulous thieves, that bourly bear away his property into the ambient atmosphere, or by drain, brook, and river, to the hungry ocean.

A book might very well be. writun to our farmers, about their manures; I, however, intend writing only an article or two on the subject for this paper. I shall not trouble tho farmers with many statements about making manures-only about saving what they do make. Nor shall I self them to read tabular lists of
chomical coustituents, or bothor thes it wilh the abstractions of scionce, or a $k$ them to do what they cannot do, or to wo any muro than they now do, or to understand any diffentit thing, or,above all, lay out nay monoy.

When our forefathers came to this country they found the dykes mad marshes pretty much as the Frencla had left them. By a vory short inferenco they found that the intervals, if cleared, would yield grass; and many strips of what they called mendow through the country also yielled grass supposed to be proper food for cattle Then, by squatting about in such districts as these, they cut what grass naturally grew, fed their cattlo in such shape as generally cuabled them to exist, and, with such a resifuum of masure as they found behind their barns in the spring of the year, they raised crop enough to exist in a homely and primitive mauner. Some of them weat a fishing.

The uplands during this time have been worked about as well as the people lonew how to work them. The Highlanders cultivated these lands after their manner, the Dutch after theirs. And perhaps the Nova Scotia people at present know, as much about farming as they did in Eutope fifty years ago.

But within a century the science of chemistry has groivn from iafaucy to its present stature. Within fifty years it has been applitd to farming generally throughout sorae paris of Western Europe and some parts of America. But in Novi Scotia people do not yet much understand scirntific farming. With the most of them uplund is still upland in its originally wet and uncultivuted state; the farmers still struggle to exist on the old water-grass farms of fify or a hundred years ago; and they still endeavor to raise crops with the manure as they find it behind their barus in the spring of the year.

Young, Dawson, aud others, have written on the subj-ct of manures, but to little purpose. Our farmers are pretty well up in the imporiation and exchange of seells and hreeds They have done creditably in fruit. They are A 1 in politics. But they don't save their manures.

Natural manures, as they, are produced on the farm, are very perislable. Our business is to arrest them, that is to arrest them from perishing. To perish means. that they become transformed into something else, or they are carried off not wholly changed Further, our business is uot to allow them to lie in stagnation, as some parts of them will do under certaia circumstances.
Our natural barn and house manure we find in two forms-the solid and the liquid. The solid manure loses only a minor proportion by sun, air and water in the course of a single seaspn, if retained in a heap. The liquid manure is destroyed very quickIf and almost wholiy, if unprotected from.
the elements here mentioneli, nad the most valuable part of the manure is the liquid. In order, then, to save, preserve, retain, or arrest the liquid manure, we mnst have some means ot either onclosing or absorbing it, and getting it mixed with the soil with as littl's loss as possible. It must be understood here, however, that the urine is to undergo certain chemical changes, requiring the presence of perhaps, sun, air, nud water, which, if my opportunities of observation have been fully useful to me, will be provided for in a simple process of absorption that I shall describe. '
In Britain, they have $n$ method of collecting the urine in tunke under the stable, afterwards carrying out and mixing with a larger quantity of water, aud applying it to the soil. An objection to such o method in this country would be the interference of frost. Aguin, the retaining vaid would require to be very skillifully contrived, to ensure against loss by evaporation; tor, where air comes in, water will evaporate, and take with it ammonia and carbonic acid, and other constituents, in the form of gas-in fact nearly adt the valuable porion of the manure.

What I imagine notr to be most necess sary to preseut to the attention of the farmer, and which I think goes yearly alt the way towards remedying the great loss of liquid manure, is the application of an absorbing medium. And in making this suggestion I know that.I adilress priucipally the furmers of Colchester, shose circumstances are of this character that an absorbing material can ba easily obtained by most of them, the most of them are in very bad need of the like, and a good absorbent would very completely answer their purpose.

The best absorbents I know of in this country are two-black swamp muck, and earth containing a large portion of clay. Having seen them both tried, I know them both to answer well, at least so far as I observed their operation. Some farmers have their huldings on sandy or gravelly ground, and have no convenient access either to clay or swamp muck. I should think they ought to try the British method, on some scale or ocher. I have been told llat it is used to some extent in Nova Scotia, and very successfully.

When a farmer works mostly clay soil, some evideuce leads to the belief that if he has the right kind of swamp muck convenient, he cau make the best combination by its use. When dry, and placed. as a receiver direcily under all parts ot the stable, or, as some are in the babit. used as bedding for the cattle, pigs and sheep, the capillary structure $n f$ it seems as it pere to drills in the liquid, with all its richness; and the original muck is to a more or less extent itself a fertilizer, especially on clay ground. But I am not propared to say that the muck is quite as
retontive as the clay, although I have seen this compost act very poverfully in fetching a crop of timothy and clover after first sowing down-better, in fuct, than the first crop after clay compost.

I flid that this present artic?s hns already grown too long. Before conoluding I wish to impress upou the farmers his general rule: do not let your green manure touch gromid. Let thero he at lenst threc feet of absorbent under the liquid portion. I havo this summer seen two feet and a-half saturated completely to the botom. In this instance the material was clay earth, but not a very stiff clay. Perhaps two and a -hnlf or three feet of stiff clay earth, well dished on top, would save the snost of a winter's urine, under a atable. Of the black mud I would put at least as much.

## CROPS IN PICTOU.

The Eastern Chroniclo says that "for sonie weeks past the wenther has been broken and somewhat unfavorable fur haymaking. However, the greater part of the hay throughout the country has been secured, although some of it has been considerably davaged by the rains. So far as we can learn the hay crop in this County falls below the average. The grain crops for most part look remarkably well, as do the root crops. We have not yet heard of the potato blight making its appearance. Very little grain has yet been cut, in fact, very little ripe graiu, eacept in a fer localiiies, is to be seen throughout the couistry. Clear, dry and warm weather is essential to the ripening of the grain crops. Tuesday was a dark day, threutening rain, und on Tuesdas night about ten o'clock, heary rain began to fall, and continued all day jesterday without intermission, thoroughly saturatthe ground, and flooding the streams in all directions."

## THE EARLY ROSE POTATO.

Here is an English opioion of the Early Rose Potato as a forcer, from a correspoudent of the London Gardeners' Chronis cle:--

For the information of Mr. Stevens (p. 974) and others, let me say that I think the Early Rose will not only be a good forcer, but it is my opinion that it will ultimately banish the old Ashieaf, note become so uncertain as a cropper, from cultivation. I have grown it these two years both from home-grown and imported American seed, and find it one of the finest earlies we have got, white and dry as flour l' Eastiyear was notia nair dest of its quality,as nearly all our Potatoes were cut of on July 9 , and the tubers never ripeued for wan: of leaves; hence, what Mr. Stevens calls their "soggy" condition. I imported tiais ceason a quastity in lourbi
rols, aud on trial found thom excelient. My present crop is also fine, and, as Mr. Stovens found with his, havo turned out both white and dry, in fact,itis the whitesttleshed Potato I know-andi I have 20 sorts this season uniler trial, and during many years in which I havo tried something over 200 sorts I have not found another so purely white and promising. I will, however, dissent a little from Mr. Stevans about cooking Potatos "slowly;" for I find from long experience, that the Iaster a Potato is boiled the better, that is, boil fast till they are neariy cooked, pour off the water, and let them staam until fully ready, then take off the cover to let them dry, giving them a shake or two, so as to separate them a little; then if there is any goodness in your potato, it will show it. Your lany readers will owe me their smiles for the above recipe.

## YARDIOUTH COCNTY SOCIETY.

## Yarsiouth, 17th Aug., 1872.

The seascn has been a most uufavorable one for agricultural prosperity, through which the Society will probably not show any advance for the year. A severe winter, with extreme steady cold and trequent heavy snow storms, almost from the lst of November to the 1st of March, and then another winter on top of all this. No spring,-not half the the usual crops got in; a wretched season for hay, seldom two fine days in succession; no fruit, although there scemed abundant bloom; insects destructive; cluh-foot unusually prevalent, destroying whole crops of cabliage, cauliflower and turuips. Per contra-we have had since June a greater average here than for the last few years, so that with no frequent rains vegetable growing has been wonderful, and crops of all kinds early and good. No appearance of potato blight yet, and the crop is vearly maturedEarly Rose quite so, selling to-day at 75 cent per bushel. This is by far the most popular and most valuable variety in cultivation in this county, and we have experimented ou varieties pretty thoroughiy. It is extra early, enormously productive, good size and slimpe, and, in good soil, of excellent quality. If the county's Society had done nothing else since its organization than introduce this variety of potato, there would be a large balance to its credit to-day against all its expenditures.

Charles. E. Brown.
minutes of yarmouth co. agmicelcultural societt.
After long corresponience, and additional.expense through the loss of the "Emperor," the two Alderney Bulls, "Tyler" and "Past Tyler," were shipped at Boston in the schr, "Minna," on Saturday, 1st Jane, and arrived on Monday,

3rd. in good condation and were placed in chargo of Geo. S. Brown until Snturday, 8th, when, having been duly advortised in tho Herald, thoy were offored at public auction, by Messrs. Wm. Lavs \& Co., on the usual conditions:"Purchaser to be a member of the Couris Saciety, and to givo bond to keep for breeding purposes for lireo years."
" Jast Tyler" was much allnired, aud considered without question by far tho handsumest specimen of the breed wo have yet hat in the county, atill there seemed no disposition to pay what might be considered a near approuch to his value. His breeder assured us that there was no better blood in the Uuited States, and that at breeders, for the market value of such animals, he was well worth $\$ 300$. He had cost, with expenses, about $\$ 100$, (bills not all received), and was bought by Charles E. Brown for $\$ 42.50$, with but little competition.
"Tyler," the one year old, sired by the same bull and a troo year old imported heifer, less attractive in appearance, being small and apparently lad not received as good care and feeding as the other, wne bought by Johin Cann for \$29.

## Canrles E. Brown.

8th June, 1872.
Necrelary.

## COLCHESTER COUNTY AGRICU1TURAL EXHIBITION.

under tile adspices of the agricultural socirties of tile county, oren to the competition of the provisicr of nova scotia.

1. Exlibition to bo held on Thursilny, 26th September, or, if unfavorable, first tollowing fine day, in and near the Drill Room at Truro.
2. Premiums to le afvarded to competitors for articles of their own growth or production, or three months possession in case of stock, except auimals imported for breeding purposes.
3. No person shall be allowed to enter for exhibition mure than one specimen in any one section of a class, unfess the additional aricle shall be of a distinct named variety or pattern from the first, this rule not to apply to animals, hut to apply to all kinds of grain, seed, vegetable products, fruits, manufactured articles, \&e., \&e., in which additional specimens would necessarily be precisely similiar to the first
4. No person shall act as a judge in any section of $a$ class in which he is an exhibitor.
j. No person will be allowed to interfere with the judges while in the discharge of their duties. Exhibitors 50 interfering will forfeit their right to any premium to which they might otherwise be eutitled.
5. An entrance fee of ten cents will be taken at the Drill Room door from non-
exhibitors and non-subscribors to Exhibition Fund at 11 a. m., whon the publio will be ndmitted.
6. All entrios of live stock must bo mado in writing, nud handed to the Secrotaries on or bufore the 15 th day of Septemier, and all other entries in writing not hater than the 20 th day of Suptember, after which nothing will bo ontured.
7. All stock will be roceived oll the day of exhibition from 7 till 10 o'clock, n. m., alter which none can bo received, oxcept animals coming by trains, and draft, carringe and sadule horses, which will not be required before 1 o'clock, p.m.
8. No animal can take tro prizes, and all stock atal articles exhibited must bo tuken charge of by their owners, the Committed giving their assistance in providing the necessarypuccommodations and doing all in their poiver to elsure safoty.
9. Stack, etc, cannst he removed from the grounds without the consent of the Managers under forfeiture of any prize awarded.
10. Entrance fee $\$ 2$, inclusive of any sums zulbscribed by competitorsto exhition funds.
11. The Committee reserpe the right of withholding prizes in cases where there is do competition.
12. All cattle must be accompanied by a rope to fasten them securely, and no provision will bo made for stock, etc., not entered for exlibition.
13. All bulls must be ringed and securely fastened, with keepers at hand.
14. A! sums of mouey, etc., subscribed to exhibition prize fund, shall bo paid tise Treasurers of the exhibition not later than 1st day of September next.

| Whr, Blatr, Chiarman, |  |
| :---: | :---: |
| Samuei Rettie, |  |
| Adam Dunlap, |  |
| War. Sutherland, | Central |
| Was. N. Dickson, | Fxhibion |
| Ec. Blanchard, | Committee |
| A. C. Page, M. D. |  |
| John Brack, |  |
| I. Lonawortir. |  |

Iotrael Longworth and William N. Dickson. Secretaries and Treasurers of Exhibition.

## LIST OF PREMIUMS.

| Best | Stallion of any age or breed, 860 On | $\begin{aligned} & \text { 2nd. } \\ & 400 \end{aligned}$ |
| :---: | :---: | :---: |
| * | Brood raare und colt - 500 | 300 |
| " | Yair of team horscs - - 500 | 500 |
| " | Single draft horse - . 300 | 200 |
| ${ }^{*}$ | Pair of carriage horscs-first prize a Silver Watch, given hy W. H. Pollock, Esqr. worth 1600 | 400 |
| 4 | Carriage horse not one of a pair, a gold chain, given by Caleb McCully, Esqr., worth | 200 |
| " | Sadilo horso - - 300 | 300 |
| " | Colt 3 years old - - 300 | 200 |
| " | Cols 3 years old - - 300 | 200 |
| " | Colt 1 year old - . . 300 | 200 |
| " | Sucking Colt - - 200 | 100 |



Best Bull 2 years old and upwaris $\$ 300$

|  | Bull under 2 years | 300 |  |
| :---: | :---: | :---: | :---: |
| " | Bull Calt - . . s | 300 | 200 |
| " | Dilch Cow - . 5 | 500 | 300 |
| " | " 3rd best |  | 200 |
| " | Heifer, 2 ycars old : - 3 |  | 2 3 |
| $"$ | " 1 ycar old . - J | 300 | 200 |
| " | Heifer calf - - . 2 | 200 | 100 |
| " | Fatcow - . . . 5 |  | 400 |
| ' | Pair fat oxen . - . 12 |  | 800 |
| $"$ | Single fat ox, not one of a pair -: |  | 400 |
| ${ }^{\prime \prime}$ | Pair working oxen - . 6 |  | 400 |
| " | " 3 ycars old stecrs - 6 |  | 400 |
| " | ic 2 ycars old stcers - - 3 |  | 300 |
|  | "1 ycar old stecrs - \& |  | 300 |
|  | $"$ Stecr calves - . 4 |  | 300 |
|  | Siecr calf - - 3 | 300 | 200 |
|  | 6nEEP. |  |  |
|  |  | $18 t$. | 2nd. |
| Best | Ram 2 gears old and upwards \$4 |  | 300 |
|  | "1 1 year old . - 4 | 400 | 300 |
| 1 | " lamh - . 4 | 400 | 500 |
| " | Pen of 4 eves, 2 years old and |  |  |
|  | upwards - - 6 | 600 | 400 |
| 4 | Pen of 4 ewes, 1 year old - 6 | 600 | 400 |
|  | " " owo lambs - 4 | $4{ }^{4}$ | 200 |
|  | swine. |  |  |
|  | Pure Bred Chester White. |  |  |


| Best | Boar of any ago . . | $\begin{aligned} & \text { lst. } \\ & \$ 300 \end{aligned}$ | $2 \mathrm{nd}$. |
| :---: | :---: | :---: | :---: |
|  | Spring pig - | 300 | 200 |
| $\because$ | Sow of nay age | 800 | 200 |
| ${ }^{\prime}$ | Litter of sucking pigs - | 400 | 300 |
| " | Boar of any other breed | 300 | 200 |
| $\because$ | Sow " " - | 300 | 2 CO |
| " | Spring pig of any other breed | 400 | 300 |
|  | Fat hog of any breed - | 500 | 400 |
| * | Litter of sucking pigs of any other breed | $400$ | 300 |
|  | FOWLE. |  |  |
|  |  | 1st. | 2nd. |

Best Coop of fowls of any improved

" Coop of chickens of any brced $300 \quad 200$ GRAINS AND BEEDS.
Best Bushel Wheat $\quad-\quad \$ 200 \quad 100$
 moors and vegetables.

[^0]

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[^0]:    Best Bushel early potatons 1st. 2nd.
    Best Bushel early potatoos . 200100
    " " table potatocs, lato - 200100

    - Collection potatoes, now varie-
    ties, 1 doz. cacla kind - 200100

