The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are cherked below.Coloured covers/ Couverture de coulour

Covers damaged/
Couvarture endommagieCovers restored and/or laminated/
Couverture restaurie et/ou pelliculbeCover title miasing/
Le titre de couverture manqueColoured misps/
Cartes geographiques en couleurColoured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)

$\square$
Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relié avec d'autres documents
Tight binding may cause shadows or distortion
along interior margin/
La reliure serrbe peut causer de l'ombre ou de la distorsion le long de la marge intárieure

Blank leaves added during restoration may appear within the text. Whenaver possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutfes Inrs d'une restauration apparaissent dans le texte, mais, lorsque cela etait possible. ces pages nóont pas èté filmées.

L'institut a microfilme te meilleur exemplaire qu'il lui a ité possible de se procurer. Les détails de cet exemplaire qui sont peut-ítre uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.Coloured pages/
Pages de couleutPages damaged/
Pages endommagiesPages restored and/or laminated!
Pages restaurées et/ou pelliculbesPages discoloured, stained or foxed/
Pages discoloríes, tachstées ou piquéesPages detached/
Pages détachées


Showthrough/
Tiansparence

Quality of print varies/
Qualité inégale de l'impression


Continuous pagination/
Pagination continueIncludes index(es)/
Comprend un (des) index

Titic on header taken from:/
Le titre de l'sn-tete provient:Titie page of issue/
Page de titre de la livraisonCaption of issue/
Titre de départ de la livraison


Masthead/
Générique (périodiques) de la livraison

$\square$Additional comments:/
Commentaires supplímentaires:

This item is filmed at the reduction ratio checked below/ Ce document est filmé au taux de róduction indiqué ci-dessous.


# nearoxom <br>  

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

## CONTENTS:

| Editorial-The Season and Crops-Analyals of Reports-IIay-rood, bad, iodifferent average-Old Hay-Potatoes-Other Hoota-Spring WheatWinter Wheat-Increac of Culturo-Other Grains-Oats-Bericy-ikye-Corn-Frult-Insects. ............................................................ C49 | Pagx |
| :---: | :---: |
|  |  |
|  | Creighton, Esp.; Net Annan; Thot, Johnson, Espq, M. P. P., Lockepart; |
|  |  |
| Preorts ox Crorg- | Commusicattosi |
| From II. A. Ni. Kaulback, Esq., Luncnburg ; A. Longley, Fetm, Paradiso | How to Clieck tho Exodus of our Mouth. Br J. W. Ley Oakfield. . . . . . 658 |
| E. P. Troop, Esfy Granuillo ; F. C. Rank8, 1:sq., Lower Stewlacko. . . . . 661 | Historjeal and Agricultural Ascociations of Old Barns, how Barns, Clifon. |
| From Ohaerver, Lower Horton; Donald Mickay, Eiq., Wallaco; li. Daveu- | By J. L.......................................... .................... . 650 |
| port, Eag. SYuncy: A. X, Comeau, Eisfic Clare, D, Archibuld, Eish. |  |
| Musquodovort J. W. Eatten, sath, Lo | St. Uxtatia Guano-Proposed Impritation to Nora Scotia................ 659 |
|  | Ifor to make Proluction Popular. ...........i..................... 650 |
| Eay. M. Masor; | Fruit in the Vicinly of Montrcal. From the Globe'............................................... 661 |
| Morrinon, Eng: St, Amn's; Gco. Whitman. Eage Annapolls, A. G. دlun- |  |
| Frare, Eaq., Siorth Sydney; Hon. J. MeKinnon, Antigonlahe; John B. | Hinta sbout Work. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 683 |
| , | matort or agil. So |
| From Correspondent, Truro; Firam Black, Ess ., Amherst; T. D. Dlckson, | ADT |

## the season, crops, harvest PROSPECTS.

## Halifax, 6th July, 1871.

A considerable number of the leading farmers of the Province have responded to our request for information respecting the present condition of the principal crops in the various counties, and the probable prospects of the Harvest. Their communications are published at length in our present number, and will well reward a careful porusal, their statements being, in most cases, doliberate results of painstaking observation and inquiry in the respective districts by men who know of what they write. Upon the whole, the reports indicate the prokability of as s.bundant a harrest as we have enjoyed for many years- A brief analysis may not be without interest:-

## THEIAI CROP-GOOD REPORTS.

Hay is our most valuable crop in Nova Scotis, and upon its scarcity or abundance chiefly depend our meat and dairy produce, and the comfort and success of our
farmers.. J. B. Dickie, Esq,, reports from Colchester, "the largest hay-producing countr in the Province," that lay is likely to be good; and another correspondent, in the same district (Truro), whose name would have given additional weight to his communication, speaks even more encouragingly; the hay crop, he says, is sufficiently advanced to warrant the fullest assurance of great abundance. From Lower Stewiacke, E. C. Banks, Esq, writes that hay bids fair to be a fair crop; and F. R. Parker, Esq, Shubenacadie, also reports hay to promise well, and that crops gencrally will be equal to the best of years. In Cumberland there is every appearance of unusually good hay crops. Hiram Black, Esq, reports from Amherst considerably over an average crop on the uplands, whilst the rains and marm weather will secure the same result on the English hay marshes, the benefit resulting from the overflow by the Saxby storm being now apparent. At Wallace, according to Donald Mackay, Esq, the hay crop promises to be heavy ; and in Parrs-
burough district, J. D. Dickson, Esq, especially notices the hay fields as much better than at this time last year. Dr. C. C. Hamilton writes from Cornwallis that the hay crop promises well, the recent rains thickening it up very much. From AnnapolisCounty we have also good reports. In the district around Paradise, Arard Longley, Esq, states that the hay crop promises to be abundant; avd in Granville, E. P. Troop, Esq, of Brookdale Farm, says: the hay crop bids fair to be more than average. At Annapolis, Geo. Whitman, Esq, says that grass upon some of the marshes is not as good, but on the uplands much better than last year, and promises a fair yield, both in quality and quantity of kay. In Antigonish County the meadows are described by the Hon. John Mackinnon as splendid, all nature smiling with the unprecedentedly beautiful weather. In Pictou Connty also, James W. Patton, Esqe, Lower Barney's River, describes the hay crop is promioing well ; and D. Matheson, Esq, Picton, reporta favourably of all creps.

In Halifax County the grass did not start oarly, but the recent rainy, cloudy weather brought it on in a remarkable manner, so that on the Peninsula and in Sackville there will certainly bo an average if not a heavy crop. In Musquodoboit, David Archibald, Esq., writes that the growth of grass was very much retarded, and, in many cases, the low lands damaged by freshets in May; but the recent rains have recovered the crop, which is likely to be an average one. In Cape Breton, Henry Davenport, Esq., rrites from Syduey that grass most likely will be a heavy crop. A: G. Musgrove, Esq., says that at North Syduey, whilst other crops look well, grass in particular is heavy for the time of year; and from the other side of the Island G. C. Lawrence, Esq., Port Hood, writes: Hay promises a good crop, should the present weather continue another week or tro. At St. Ann's, Co: Victoria, John Morrison, Esq., says there is every promise of a good crop.

## HAY CROP-BAD. INDIFFERENT, AND AVERAGE.

In Hants, Alfred C. Thomas, Esq., reports from Windsor, that in upland hay fieids when the oxeye daisies and yellow buttercups are deducted, the hay can be put into the barus with very little physical labour, that poor dyke will be almost a failure, good dyke an average crop. Of Lower Horton, "Observer" gives . somewhat similar account; the grass on good uplands is good, but on dry uplands and old meadows the crop will be light, and the grand Pre which was flooded in 1869, will yield only a light crop. In Lunenburg district, H.A. N. Kaulback, Esq, reports that the grass is as yet very short, but it is thickening and improving, and with favourable weather in store there may be nearly an average crop. From Mrabone Bay, B. Zwicker Esq., writes that the hay crop is later than last year, although this season wo have much finer growing weather, (for an explanation of this paradox see his communication.) Digby Co. appears to have suffered much from the spring drought. Anselm M. Comeau, Esq, Clare, says that hay in general will be light, and that aithough there is abundance of rain now, yet the ground was so parched in April and May, that the grass cannot grow much. In Yarmouth there is better promise. Charles E. Brown Esq, reports that the recent abundant rains
have improved the prospect for an averago crop of hay; cutting, where light, had begun when he wrote ( 26 th June). Wo fear the hay must have been very light that required cutting so early.

## old har:

Several of our correspondents speak of the great scarcity of hay this spring, which caused serious incouvenience to many farmers; this fact explains to us why the price of hay kept up 50 well at a season when it is apt to fall. It appears that there is very little old hay in the country because our farmers are wintering more stock and find a ready market for their surplus hay.

## POTATOES.

In Yarmouth potatoes look very well; a few Early Rose were exhibited (205th June) fit for the table; at Mahone Bay they are very promising; in Lunenburg, they look very well; in Paradise they look well in high land, but in wet soils 'he seed has rotted or been destroyed by wire-worm; in Granville they look remarkably weil; in Annapolis more potatoes have been planted than usual, and there is every prospect of an abundaut yield. . At Windsor potatoes were put in early, and have a fair chance this year; in Lower Horton they have come up well; in Parrsboro they were planted early and have come up well; in Wallace, they look healthy; in Irvso they are very fine for the season, on favoured soils, but generally rather late; in Stewiacke they are of a fine healthy colour; in Shubenacadic quite a quantity of Early Rose has been planted; in Lower Barney's River potatoes are all coming well, and no complaints of rotting as last season; in Antigonishe, the crop never looked more promising. In Mrusquodoboit, potato raising is rapidly extending, and although planted much later this year than formerly, yet they lave come up robustly, with scarcely an instance of failure in cuttings. In Cornwallis, which is our great potato county, a greater breadth has been planted than last year, chiefly of the Prince Albert, but also considerable quantities of Earl Rose and other new kinds.

## other roots.

It is too carly in the season to predict results respecting most root crops, but the indications are thus far satisfactory. In Colchester, roots could not possibly give better promise, and a good crop of turnips is anticipated from the favourable weather; in Parrsboro turnips have come up rell, and have not suffered from the fly; in Cape Breton, root crops are coming array vigorously. But in Yarmouth root crops, cabbages, cauliflowers, \&ec., have suffered from insects even more than usual; we have the same complaint from Annapolis, and in Halifax county there is a
similar infliction. In North Sydncy township, carrots are replacing turnips on some farms, as they are not liable to fly, and are thought to be better for stock. In Truro, also, there is less ground in turnips than formerly. The turnip crop reguires so much hand labour that in many parts of the country potatoes are takingtheir place for feeding purposes.
spring wheat-wintea wheat-hichease of culture.
Tho Board of Agriculture has every reason to be satisficed with the progress that has been made in the extension of Wheat Culture in the Province, to which their attention has now been directed for some time. Since the importations of Seed Wheat were made, there has been a steady yearly increase in the breadth of wheat sown by our farmers, the soil has been better propared for it than formerly, and the results in most cases are so satisfactory as to lead the farmer to determine upon a greater breadth of wheat land next season. In Colchester, this year, there is one-half more wheat sown, and on and near the Shubenacadie IRiver, four-fifths more, than in any one year during the last ten years; it promises well. In Cornwallis, the Spring Wheat sown is fully above average, and, so far, it looks well. In Paradise more than rsual has been sown, and it looks well. In Pictou County the crops (accorling to D. Mfatheson, Esq, a very competent authority) are the largest ever connmitted to the ground in the County, several farmers having sown from 20 to 30 bushels of wheat, and there is cvery promise of a largely =emuncrative harvest. At Barney's River this crop presents a fine appearance. In Stewiacke wheat is doing pinely. At Truro grains of all kinds look well, and fall wheat, although uncovered during the greater part of the severe winter, sustained ro injury. At Amherst wheat is doing well. It is not sown exextensively in Mrusquodoboit, but looks vigorous and healthy; in Windsor very little somn. At St. Ann's, C. B., wheat is more generally sown, and is very promising.
other grans-oats, barley, whimer rye, indiax corn.
At Amherst a large area of oats was sown, and, allhough put in late, they are coming on finely; so also is barley. Oats have been largely sown in Cornwallis, and look well, but corn is iate. In Sterriacke, oats and barley are both doing finely. At Mahone Bay grains are promising; winter-rye very good. In H:ants carly-sown eats on the dykes have been rashed out to some extent by the rains, and thus attracted the attention of the crows, which our cerrespondent thinks an expensive lind of poultry, but generally the early-sown oats are doing well there; barley not so much sown as it
ought to be. In King's county grain is short as yet, but has a very healthy appearance. In Anampolis less grain has been sown than formerly, and an average yield is expected. In Musquodoboit, oate althongh sown Jate this year, give great promise of an abuadaut yield; barley is fully equal to former years. Buckwheat coming up well. In fower Barney's River early-sown oats and peas look well; in Yarmouth grain is promising. In Paradise Indiun-corn is backward from wet and cold, but buckwheat, barley and peas look well. In Grauville, also, In-dian-corn is rather late, retarded by the nights being rather cool; barley and oats look exceediugly well. In Parrsborough grains oi all kinds look well; in Wallace they have a healthy appearance, and a wuch Ja or breadth sown than in any previous year. At Syduey, C. B., cereals aro healthy, good in colour, and strong in shoot; but at North Sydney barloy and oais are reported as backward.

## fruit.

Horton-Few blossoms on the trees, and prospect of a light crop. Windsor -Apples about an average; small fruits promise well. Granville-Fruit, to all appearance, will be in excess of last year. Yaradise-Apple crop will probably be light, in consequence of cauker-worm, and other fruits light also. AnnapolisApples blossomed abundantly, but late frosts did injury, and the crop is not expected to exceed average. AmherstThe small orchards will give a poor yield, and the plum and cherry crops will be very small. Pictou-Apples a fair crop, cherries und piuns deficient, strawberries abundant. Luuenburg - Fruit blossomed abuudantly, Mahone Bay-Apples promise well, plums short. YarmouthAbundant bloom, and good prospect of fruit, except of strawberries and raspberries, which have suffered from the unusual severity of last winter. Sydney, C. B.-Prospect of abundance of fruit, especially small fruits, currants and gooseberries being very heavy, and strawberries blooming well.

## insects.

On the Halifar Peninsula, and throughout the greater part of the county, the littie turnip beetle has been unusually destructive to early plants, cablages, canliflowers, tomatoes, ground cherries, cucunbers, melons, \&EC. The cut-worm also has been more prevalent than usual. On the Peninsula the Mangel crop may be regarded as a failure from the insect injuries received,andseve:al farmers have ploughed up their fields of Miangels, and re-sown with turnips. The Gooseberry and Currant Worm has been comparatively weak and few in uumbers this season, so that small fruit is doing well. The tussack caterpillars, so abundant during the last year or two, in and around Halifas; have al-
most cumpletely disapppeared. The parent of this caterpillar, tho dancing Yapourer Moth, wo have ouly seen one individual of this season, a male. Later in the season, however, we may 'have a small crop of these omnivorous caterpillars.

## OBITUARY.

At Mahone Bay, on the 27 th ult, in the 4 Jth year of his age, George Duncan, lisq, neerclant, leaving a widuw and fuur children to mourn has loss of a loving husband and father.

Mr. Duncan was for several years the active Secretary of the Mahone Bay Agricultural Suciety, and we regret to hear of his decease.

## Reports on Crops.

Lunemberg, June 2G, 1871.
Mr. Editor,-Agreeably to your request, I send you the following observations on the prospects of the crops in this County:-Spriug opened carlicr than usual in March, and the alternate warm rains and sun-shine, which continued until the beginning of May, promised early work for the farmers. But the month of May ushered in a spell of cold NorthEasterly winds and ungenial weather, with sharp white frosts and deficiency of rain, which continued during the month, retarding vegetation and the work of the husbandman. Aud hay becoming scanty, many farmers had great dificulty in finishing their spring work. Up to that time the prospects of good crops were anything but promising; the young grain plants, particularly on heavy soil, looked sickly, patchy and thin, and the grass stunted. But potato and other root crops made fair promises, and now look very well; and the fruit trees generally put forth abundance of blossom, and now seem safe to yield an average return. The weather this month has been every thing that we consider good, delightful rains with reasonable warmth and sun-shine, the customary remarls during this month being:This is fine weather; the fields generally now promise a fair yield, except the grass, which is yet very short althoigh rapidly thickening and improving. It has yet nearly $s$ month for maturing, when, I believe, the weather continuing favourable, it will not be much under an averago crop, although many of our best farmers shake their heads in doubt about it. This County used to export large quantities of surplus hay, but the lumbering business now takes all of it, and last year, although the hay crop was very abundaut, yet some engaged in the lumbering business got hay, this spring, from Cumberland County. Cattie command unusually large prices, beof and everything. else the farmer has to sell bring high prices and find a ready
market. All branches of trade and business were never more flourishing than at the present time, high prices for everything and money freely circulating. I an \&c.
II. A. N. Kallibaci.

## Paradise, Junc 26th, 1871.

Dear Sir,-In reply to your favour of the 21st inst., requesting me to furnish you with information regarding the state of the crops in this district, I beg to hand you the fullowing, embracing the result of my observations upon the sulject referred to. The hay crop promises to be abundant. Wheat luoking well-swore than usual sown. Rye, very little sown, that little promises well. Indian Corn, backward, too wet and cold for it Buckwheat, barley and peas, looking well. Potatoes, on high land looking well, on low land or wet soils, the seed has rotted or been destroyed by the wire-worm. Too early to speak with much certainty regarding turnips, mangelwurtzels, carrots, etc. The fruit crop, apple crop especially, will probably be light, partly in consequence of the devastations of the cankerworm. Currants have suffered by the ravages of the currant-worm. The plum and pear crop will probably be light, Cherries promise pretty well. I am \&c.

## A. Lonaley.

## Brookdale Farmy, Granville, $\}$ June 27th, 1870.

Dear Sir,-I am in receipt of your favour of the 21 st inst., and am happy to inform you, that from all I can see and hear concerning the crops in the Western part of the courty, there never was 2 more promising appearance at this season of the year. The hay crop bids fair to be more than average. Wheat, but little sown. Indian corn, not quite up to the season, owing to the nights being rather cool. Barley and oats leok exceedingly well, potatoes are looking remarkably well, and should the weather continue favorable no doubt there will be an abundani crop. Fruit to all appearance will be in excess of last year. I am \&c.,

> E. P. Tnoor.

$$
\left.\begin{array}{c}
\text { Lower Stewtacke, } \\
\text { June } 26 \mathrm{th}, 1871 .
\end{array}\right\}
$$

Dear Sir,-In reply to yours of the 21 st inst., $I$ am happy to say that in this locality crops are looking better than was anticipated a few weeks ago. Owing to the backwardness of the spring everything is somewhat later than last spring, but crops in general are now looking well. The hay bids fair te re a fair crop; wheat, oats and barley are looking fincly; potatoes too, are a fine healthy colour, and if seasonable showers continue through the season no doubt a fine harvest will be the result. We have had some very fine showers of late, which yas improved the
appearance of the country very much indeed; and the furmer can now look forward to the coming autumn with a fuir prospect of being rewarded for lis labour. I am \&c.,
E. C. Banis.

Lower Horton, June 2Gth, 1871.
My Dear Sir,-Yours of the 21 st inst., came to hand. In reply would say, that the spring was cold and backward, but a very large breadth of land has been sown and plauted; the grain is short as yet, but has a very healthy appearance; potatoes came up well ard never looked better; corn, although late planted, is looking well; the fruit trees showed but very few blossoms, probably owing to the frosts in May, and there is a prospect of a light crop of fruit; the grass in good uplands is good, on dry uplands and old meadows the crop will be light; the grass on the Grand Prè, which was flooded in 1869, will be a light crop. The country seems very prosperous here at present. All kincs of farm produce have found a ready market at good paying prices during the last year. Breef cattle have been in yood demand throughout the county at high prices. A large quantity of hay has been pressed and sent from here to Halifax and Boston, at good paying prices. The county here is looking beautifully at present. I am \&c.,

Observer.

## Warlace, 27 th June, 1871.

Dear Sir,-In reply to your notice of the 21 st inst., I veg to state, thatt the appearance of the crops in this district is very good, I may say better than usual. The hay crop promises to be heary, and the grain crops have a healthy appearance, and the favourable scason enabled farmers to sow a much larger breadth than in any previous years; potatoes look healthy, but the breadth under that crop is not so large as in former years; turnips and buckwheat are about being secured and the season so far was all that could be desired for farming operations. I am \&c.,

> Movald Mrackay.

## Stdeey, June 17, 1871.

Mfy dear Sir,-I need hardly repost the fact, because it is noticed in the last lournal. After many conversations on the matter, some visits and letters addressed to different gentlemen interested in farming, the "Norih Sydney" is once more on its feet. I am heartily glad of it, because in no part of Cape Breton county is there such a body of intelligent well-to-do farmert, so placed that they can without inconvenience meet and act together. Mutual co-operation is the very life-blood of a Society.
As far as the season has gone, I can only say what is already known: it has been the most backward I have seen. Within the last few days there has been
a marked change for the better, and everything looks well. Grass, most likely, will be a heavy crop. Cercals are licalthy, good in colour, nnd strong in shoot. The same may be said of all kinds of roots; although somevhat backward, vigorous-looking. Turnips generally are just going in. Of fruit there seems a prospect of abundancs; the trees are blooming well. Currants and gooseberries very heavy, although the grab has shown. Strawberries are very full of bloom, and altogether the prospects are good.
But labour. This is now the drawback. Wages running up; farmers and their sons by hundreds, may, thousmands, leaving their farms to the women, and seeking employment at the collieries and railways springing up in every direction, and the cry-out here is for more hands. Can nothing be done? If it go on, we must have Chinese or Coolies. I am, \&c.,
H. Davenpont.

$$
\text { Clare, Jaa. 26, } 1871
$$

Dear Sir,-Yours of the 21st inst. is at hand, and I am sorry to state that the crops in this district look all but promis-ing-everything looks backwards. Hay in general will be light; I believe on account of the drought in the spring. April and May were very dry, but now we have abiandance of rain, but the ground was so parched and the roots dried up that it cannot grow. Potatoes and grain are only in intancy, and it is hard to tell what they will do.
I am, \&e. ., Ansely M. Coneau.

## Musquodoboit, June 1871.

Dear Sir,-I beg leaye to forward you the following respecting the crops prospects in our community:-

Wheat-Though not sown extensively, where sown, looks vigorous and healthy. In consequence of the lateness of the Spring season but little was sown in April, the proper time for sowing wheat in order to avoid weevil, but even the late-sown looks pronising.

Oats.-Although sown much later this year than on the preceding one, yet give great promise of an abundant yield.
Barley-(The value of which for feeding purposes is just beginning to be understood here), looks, for the season, fully equal to former years. Its stoutness of blade and deep-green colour as it waves in the breeze give a favourable indication of a good return.
Buckzoheat-the seed-time for which is just closing, looks, where it has made its appearance above ground, well for the season of the year, and will compare favorably with the past.

Potatoes-As a crop, cultivated pretty extensively. Owing to the uncertiainty in the culture of turnipg, farmers are
obliged to embark more largely in the
potato crop, it being the only root that they can raiso profitably for stock-feeding purposes. The potato this year has been planted much later than formerly, yet the appearance of erop at the present time is quito up to the senson of the year, they haviug made their appearance above ground, after planting, in so much shorter tine than in years gone by, showring a stout robuat stalk with a rich green foliage with scarcely m instance of failure in cuttings.
Hay or Grass.-This crup, the great staud-by of the farmers, was much retarded in its growth, and in many cases the lowlands damaged, in consequence of the prevalence of frosts through tho month of May, yet the late rains lava done much in the recovery of this crop, and should they continue for tivo or threo weeks more will make the crop an average one.
The hay and oat crops are most important to our farmers, a ready market for which is obtained at home, caused by the extensive lumbering business carricd on in the castern part of the county. These crops, including the potato, are an almost certain source of wealth to the industrious farmer; the increasing prosperity of our country, as felt by all who take a lively interest in it, make for these crops a quick sale and ready market;-the increasing and healthy tone of our markets generally throughout our Province for all kinds of agricultural produce speak well for our country's prospects and future welfare. And, dear sir, in conclusion allow me to say that we believe that one of the grand incentives to our agricultural prosperity is the lively and determined interest taken in it by our Board of Agriculture. Much thanks are due to you and the gentlemen with whom you are associated for the great interest you have manifested in the agricultural welfare of this country. The inportations you have made in improved breeds of cattle, sheep aud swine, as well as grain, In: ve tended very much to our present prosperity, and your arduous endeavours for our welfare have contributed largely to the present tone of agricultural prosperity in the Province. Iam, \&c.

David Archibald.

## Lower Barneys River, June 22, 1871.

Dear Sir, —In reply to your note of June 15 respecting the state of the crops in our district, I would beg leave to state that wheat sown last of April and first weeks of May presents a fine appearance. Early-sown oats and peas also look well. Potatoes are also coming well, and no complaints of rotting like last season. Hay crop promises well. On the whole there has not been better prospects for the past two or three years. I am, \&c.

Jas. W. Patten.

## Yarsioutis, June 26, 1871.

Dear Sir,-Your circular respecting crops received. Within the last month abundant rains have improved the prospect for an average crop of hay. Cutting, where light, has ljegun. Potatoes look well. A few Early liose have been exhibited for the table. Grain promising. Fruit trees of all kinds show a very abundant bloom, and with a favouraule season will bear largo crops. Root crops, with cabbage, caulitlower, etc., suffer from insects even more than usual, repeated sowings and transplantings being necessary to replace blanks. The small fruits show the unusual soverity of last winter. Many plantations of strawberries and raspberries are so much hurt that the crops of fruit will be small. Covcring and protection from cold winds are indispensable to successful fruit-growing. Cias. E. Brown.

Sir,-It is the business of this letter to point oft the growth of crops, the scason, and the general prosperity of the country, but especially Colchester and Northern Hants. The Spring came in rather slow, owing to the cold winds and 1ains. Nany farmers had commenced to grumble and complain of the season which, I regret to say, is too much the case, as if they were the whole people or the world, but after the wet weather had passed away nothing was more stitable for farming operations, being quite cool enough for work, which enabled many farmers to do more in the same time; and, as crops have been more productive for the last two or three years, and prices average much higher thau usuai, gave great encouragement to the farmer to cultivate more ground this year than he has for many yoars past; and it has been done in a better manner than heretofore. There has been one-half more wheat sown, and on and near the Shubenacadie there has been sown four-fifths more than there has been for any one year in the last ten years. The general talk and enquiry was for seed and quality, and still there was plenty, owing to a good crop last jear.

## APPEARANCE OF CRORS.

By all appearance hay will be a good crop, for the frequent rains have just done what the farmer might expect, and all grains look admirably well, being, as I said before, better managed in the putting in by manuring and otherwise; and as to Roots, nothing in the season can be better adapted than the present and latter rains, being what roots required to distribute the gases of the manure through the earth io feed the plants, and therefore you will see the potato, the turnip, the carrot, and the mangold all coming up and looking wull, even if not forward. I might say that there is quite a quantity
of the Early Rose planted, so that after this year they will be one of our common potatocs. Thero has been a much larger quantity of land sown in wheat, oats and harley, more potatocs, turnips and other roots than heretofore. As a whole, the crops promise at the present, if not above the average, at least to be quite equal to the best of years, and this quite gladdens the farmer's heart and makes him rejoice in his country, while some are leaving, for what reason they do not know. Therefore the furmer has everything to encourago him and to make him feel thankful for a gool season, good crops and good prices. Every article that he has to sell, from the fat ox to the lamb, buther, etc., will be plenty, and prices rule higher than they did four or five years agc. And while the farmer prospers all others must do likewise, let them be mechanics, labourers or having machinery of any kind, who has more work than he is able to do, with very remunerative prices. On the whole the country looks very well, and never more prosperous.

> I remain, \&c., Colchester Fammer.

## Windsor, June 21, 1871.

My dear Sir,-I received your letter, and would have answered immediately, but knowing that the way in which my own farm is worked would prevent my taking my own crops as a fair standard, I concluded to wait until I could take a roam over the country with some experienced farmer, but the wet weather prevented it, and I see that I can no longer delay my report, but I have taken every advantage offered during the limited time allowed to get the opinions of farmers from different sections of the county, and I have come to the following conclusion, after combining their opinions with my own observations :-That the upland hay -when the ox-eye daisy and yellow buttercup are deducted-can be put into the barns with very little physical laberur; that poor dyke (this $\frac{1}{l}$ know nothing about, but take the opinion of others) will be almost a failure. Gcod dyte an average crop. I wished to exploro the dyke to ascertain as nearly as possiblo from personal observation to what extent the failure of the grass can be attributed to overflowing (Saxby's tide), but the time allowed me is not sufficient; but I hope to make future observations. The first piece of oat land that I came across this year attracted my attention in a peculiar way. Walking across the dyke I noticed some red land fairly black with crews (rooks, I beliere, properly.) On examination I found the seeds washed out by the rains and fairly exposed to their depredations. I don't know who owned that dyke, but am inclined to think that they were about the most expensive poultry he ever fed, unlers the wonderful fertility
of this class of land will cause the grain to stool out. From farmers to the uorth of Windsor-that is, in Wentworth direc-tion-I hear the samo complaint of early sown oats not being half covered; in the other direction I think the general opinion is that the carly-sown will do well. Barloy is not extensively sown, which I believe to be a great mistake, for if farmers would only be a little more careful in the quality of their seeds, a ready market would soon 'e found. While on this subject, I cannot help remarking that a vessel could be loaded at Windsor and firstclass malting delivered in Liverpool, G. B., for about what it costs to take it to Halifax.

Wheat.-Very little sown. I have not scen a single field, although it may be sown to a greater extent than I imagine.

Potatoes, I think, had a fair chance, as the dre weather in May enabled them to be got in early.

Turnips on light land ought to stand a fair chance, as the weather has been favorable; but of course this is only anticipation.

Mangolds are a crop in little favour in Nova Scotia, and I believe in a great measure from a want of knowledge on the part of both the farmer and the seedsellers. Ten pounds of seed, at least, should be sown to the acre, and new varities come out every year which can be cultivated with so much more profit.

Fruit.-I think small kinds of fruit, such as cherries, plums, etc., promise well. Apples, I think, will be about an average crop.
A. C. Thomas.

## Port Houd, June 26, 1871.

Dear Sir,-In answer to your enquiries I beg to say that owing to the cold winds and large quantities of rain falling during the month of May the crops were iate in being put into the ground, but the fine weather with occasional showers during the present month, is making up for lost time, and the crops throughout the county are looking well. Potatoes are coming up, and look healthy and strong. Hay promises a good crop should the present weather continue another week or tro. Turnips are only sown in small quantities, and farmers are only now putting them in, although in my experience I have found that they should be sown by the 15th of June. I am, \& c y

## Geo. A Lawrence.

$$
\text { Noel, June 26, } 1871 .
$$

Dear Sir,-Yours of the 21st came duly to hand, requesting me to furnish. you with a few remarks on the state of the crops in our district, which I will endeavour to do as briefly as possible. In the first placo I may say that we have had a very cool ard dry season for putting the seed in the ground; that vegeta-
tion was very backward till about the tonth of Junc, when wo were blessed with a very copions and refreshing rain, which caused the grass to start rapidly. Wo have had very seasonable showers up to this date. The Grass makes a good appearance at present, and bids fair for a medium crop. Wheal, which has been considerably more sown than formerly, looks exceedingly well at presenc. Oats promise well. Potatoes are also coming well. I have not heard of any rot. Tho appearance of Fruit is not at all encouraging at present. Canadian Fifo Wheat was in great demand this spring, peoplo from all directions applying for it for seed.

> I am, \& \& .

Robr. Faulaner.
Pictou, June 29, 1871.
I am happy to say that the agricultural prospects of the encuing harvest are of the most encouraging character. The spring was somewhat backward and cold, but well adapted to labour, and the crop, from all I can learn, the largest ever committed to the ground in this county, severay farmets sowing from 20 to 30 bushels of wheat, which was got in in a very good condition. There have been pleatiful rains ever since, and the crops, with the exception of the lowest grounds where there may be a surplus of moisture, exhibit a most flourishing and hopeful appearance, and anless some unlooked-for blight or mishap takes place, the farmer may fairly calculate on a largely-remunerative harvest.

As regards Fruits, apples promise a fair crop. Cherries and plums are likely to be deficient. Strawberries, except where injured by the hail-stones of the 4th and 17 th, will be abundant; and from the general appearance of the face of nature, everything seems calculated to iuspire in the breast of the husbandman feelings of gratitude and thankfulness to the kindness of a benignant Heaven.
D. Matheson.

## Mahone Bay, June 27, 1871.

Dear Sir,-I herewith give you a brief statement of the prospect of the crops in this part of the county. So far everything looks very promising; the weather has been all that could be desired during this month; the hay-crop is later than last year, although this season we had much finer growing wexther than last. The way I account for it is this: the winter of 1870 was one of the mildest we ever had, and there was very little frost in the ground, and the grass took a very early start, although May of 1870 was even colder and much dryer than last. Last winter was one of the coldest we ever had, and very sudden changes of thaw leaving no covering of snow. Consequently the frost penetrated very deep,
leaving the ground long cold before the grass could take a start. But I think there will be a very good crop of hay, but late haying. The griin and potatoes look very promising. The winter-rye is very good. There is also a prospect of a good crop of apples. The plum, I think, will be short. Some of your readers may differ with me in the statement of the weather, but what I state is correct. I have kept a regular journal of the weather ior the last seventeen years, and can certify to every day.

Yours, \&e., B. Zwicher.

## Soutir Gut, St. Ann's, June 24, 1871.

Dear Sir,-Notwithstanding the unfavorableness of the first part of the season for agricultural operations, farmers in this district have succeeded in putting down as large a quantity of the different kinds of seeds as in former years, if not larger. Wheat, in particular, has been more generally sown, and in larger quantities. Although May did continue wet and drizzly throughout, yet nothing appears to have perished in the ground, and the genial rays of the summer sun during the last two or three weeks, accompanied by copious and refreshing showers, have produced extraordinary results. Grass and grain fields have assumed a blooming aspect unasually rapid. The gloom which had settled upon the farmers' countenances during the month of May has now wholly disappeared, and, instead, they begin to reflect the cheering aspects of their fields and meadows. Should the season for fructification prove as favourable as the present prospects, the result will certainly be an abundant harvest. Fruit trees promise good returns.

## Jony Morrison.

Ansapolis, June 26, 1871.
In consequence of the cold weather in April and May the whole of the crops in Western Aunapolis, with few exceptions, are later this year than usual. Grass upon some of the marshes is not as good; but on the uplands is much better than last year, and promises a fair yield both in quality and quantity of hay. Less grain was sown than formerly, but from present appearances an average yield per acre may be expected. More potatoes were planted than usual, and although late, they are looking well, with every prospect of an abundant yield. The same may be said of turnips, mangolds and other root crops. Squashes, pumpkins, melons and cucumbers have all suffered by the squash-bug. Many plants were saved by sitting dry ashes, lime, or dry earth on the leaves when wet, and some by tobacco in liquid, not too strong. Corn is poor, and not likely to be an average crop. The show of blossoms on the apple-trees was more
than usual, but many trees were injured by the late frosts, and the crop of apples is not expected to exceed the average.

Gzonge Whitras.

## N. Sydnex, Jume 2G, 1851

Dear Sir,-I am sorry your note did not come to hand until Saturday eveaing, 24th, and as you wish a reply not later than 28th June, my information I could furnish would be late for the Journal. But I would say in answer to your request that crops in this township gencrally look well; grass, in particular, is heavy for the timo of year. Wheat is but sparingly sown, aud that not carlier than 10th of Junc; so I cannot say much about it. Barley and oats look backward. Potatoes look well; though lato planted, they have come up well aud are growing rapiäly. Turnips are not cullivated to any extent, except by a few. Some farmers are giving more attention to the cultivation of carrots, as they withstand the fly better, and are thpught better for stock. There is every appearance of an abundant fruit crop.

Our Society, I lope, is going to work well. Since my Jast communication I have received additional names, with their subscriptions, making a total of fify-four members.
I think before the annual mecting we will likely number over sixty.

Yours, © $\mathrm{c}_{n}$ A. G. Mifsgrove.
Trero, June 23, 1871.
Dear Sir,-In reply to your note of 21st inst., would say,-That the general appearance of the crops in this county is very promising. A dry May and a wet June keep the farmers in merry tune, is the old proverb; and accordingly we farmers should be quite checrful, as the season in this respect has been all that could be desired. About the usual crop has been put in. Hay is likely to be good-the bottom being thick and well set. Grain looks well-potatoes are coming up, and so far, prospects seem favourable. This county being the largest hay producing county in the Province, the success of that crop is looked to primarily. I am, \&c.,

## Jonn B. Dichie.

## Antigonish, June 19, 1871.

Dear Sir,-Your favor of the 14th duly received. To comply with your request I submit the following remarks :Owing to the late cold, wet weather in the first of Mlay, and hay being scarce in many localities, the spring work was rather backward. To make up for this the last half of May was never more favourable, it being dry and generally cool. The crop was put in the ground in first rate condition; and though not on the whole very early, still all in good time.

Very littlo of wheat was sown in April, but generally the late wheat was sown carlier than in former years, owing to the favourable condition of the ground and the beautiful weather with which June set in. Tho potato and oat crops were put in the ground in good time, say between the 15th and end of Mray. Owing to the abundance of rain and the unusual heat of the weather at this carly season, the crops never looked more promising. The meadorss look splendid, and promise, if this weather is to continue, to give an abundant crop. All nature seems smiling with this unprecedentedly beautiful we:lther. I am, \&c.,

> Jons McKinnon.

## TRURO.

The farmers in this vicinity have the most cheering prospects. Spring was tardy in making advances, and the warm days during the season have been fewer than usual; but through the abundance of rain which has fallen during the past three weeks, vegetation has been most rapid and luxuriant. The fields are now clothed with beauty, and are smiling with promise.

It is rather early in the season to predict definitely the character of the harvest. The hay crop, however, is sufficiently advanced to warrant the fullest assurance of great abundance. The haying season will probably be earlier than usual. In determining the time to cut their grass, farmers will do well to remember that an increase in the bulk and weight of the crop may not secure an increase in the nutriment. At a certain stage the stalk is full of saccharine and nutritious juices; at a later stage these are converted into woody fibre, which as food for cattle, is little better than a basket of chips.

Grains of all kinds lock well. The extent of ground in wheat is considerably greater than usual. Small fields of winter wheat in the neighborhood of the village of Truro present a most promising appearance. Although uncovered during the greater part of a severe winter, it sustained no injury. It is beginning to ear, and will need to be harvested early in August. It is proper to remark that these fields are upon green-sward, ploughed and sown the first week in September.

On favored soils potatoes are very fine for the season; yet generally they are rather late and less promising. It is said that there is considerably ecss ground in turnips than in former years. This is said to be mainly owing to the continued wet weather during the sowing season. Ants are very numernus, doing great damage in some gardens to the strawberry plants. If any correspondents of the Journal can recommend an exterminator, they will confer a favor. The cheese factory in Onslow-about two miles from the village of Truro-is making a good be-
ginning. During the few weeks that it has been in operation, it has produced about a ton of tine looking checse.-Com.

## Aminast, June 2G, 1871.

Dear Sir,-In reply to your note re:specting the crops, I beg to state that the upland grass promises considerably over an average crop of hay; warm weather following the late timely rains will secure the same results from the English marsh; while tho Broad leaf exhibits the unmistakeable benefits of the "Saxby flood," and is almost insured against a middling crop. Oats, though the backward spring caused their late sowing, are coming on finely, large area sown. The sume may be said in roference to buckwheat, barley and wheat, though not a great denl of the latter sown. Though too soon to speculate upon the product of the root crop, still there is nothing to prevent a heavy yield but an unjpropitious season. Our small orchards will not probably return an average yield, this will particularly apply to plums and cherrics. Altogether the prospects of the crops aro highly encouraging to the country, and alreaciy offer assuranco of gratifying rewards to the efforts of the agriculturists. I am, \&c.

Hiram Black.
Parrsnorovgh,'June 26, 1871.
Sir,-From such accounts as I have been able to gather, there is a prospect of good crops throughout this district this spring. The hay-fields are more esprcially noticed as much better than at this time last year. Early in the season grass came on well, but in ths upper part of Parrsborough and in Upper IIaccan encountered a drought which continued for a fortnight, and vegetation seemed almost to cease. Fears were entertained by all persons in those sections of the country that the crops would be a failure. On the 12 th inst., however, we were favoured with $a$ heary rain, dispelling our fear of the failure of crops. Since then the weather has been showery, and in consequence the improvement in the hay crop is most wonderfial. The county now everywhere, with the apple trees in full bloom, wears a most smiling appearance. While the drought prevailed in the upper part of Parrsborough and in Upper Maccan, copious showers fell twice at Advocate Harbur, but extended East up the shore only about fifteen miles. Most of the fillds of potatoes were planted early, as the ground was dry and the weather favora3le, and they have come up well except in a few instances, where they were affected by the drougnt; but these fields have been re-planted and there is now every prospect of a good crop of this staple article. It is still a good time for planting potatoes, especially on burnt grounds, and some persons will only finish this week. Potatoes planted on
the last of June come up in a week; thoso planted on the first of May or sooner tako three or four weeks to got through the ground; those grown from very late planting are aliowed to be good for the nest years seed if not for cating.

This is, Ithink, tho best time for putting in the buckwheat crops along the shore in Parrsborough, whero the frost does not strike so carly in the fall as it does inland. There it is geuerally sown earlier to avoid the early fall frosts in ripening. Grain of all kinds looks well; for a while, like the otner crops, it suffered from the drought, but the late showers have had the same magic effect upoa it as upon the grass; and the farmer's heart is checred by its rapid growth and healthy and fine арреагапс.

For tho last three weeks the ground and weather have been favorable for puting in turmips, and they hnve every where come up rell, and have not been attacked by the fly. We have still a fortnight that we may put in the Swedish turnip,-the growth may not be so great as of those planted earlier, but they are allowed to be sivecter and better for the table. The early planted ones become strong and stringy. White turnips do very well for feeding out in the fall, and they may be sown any time in the month of July.

We had a very heavy frost on the night of the 5 th inst., but do not apprehend that it has done much, if any damage. Apple trees here were not then in bloom, and the strawberry blossomas only partly out. Potatoes, corn, beans and other vegetables liable to injury from frost were not then up. To these several crops, if experienced as heavily inland as we had it on the Bay-shore, it may have done more or less damage.

> T. D. Dickson.

## Cornfallis, June 28th, 1871.

In reply to your note of 21 st, requesting a "brief report upon the state of the Crops," I beg to say that on the whole they are very promising. The season has been cool, with sufficient rain-fall to bring up the seed and keep the ground moist.

From all I can learn the breadth of spring wheat sown is fully above the average; so far it looks well. There is scarcely sufficient winter wheat sown to remark upon. What I have seen looks very promising. Oats are largely sown this yea:, also look well. The Norway does not seem to be a very great favourite with the farmers. I think the Suprise will take the lead, as they are much earlier and yield well. Corn does not look well; the weather has been rather cold, but a few warm days at this time will naturally alter its appearance.
Potatoes as usual are pretty extensively cultivated; the high price ( 60 c .) last spring, induced the farmers to plant a greater breadth than last year. The

Garuet Chili for yielding, hardiness, and and for the West Indian matket seems to be the favourite. The Rose is quite extensively cultivated this year; and some others, such as Execksior, Bresce's Prolific, Climax, and the Goodrich, Calico, aro being tested. The main crop will bo the Prince Albert. It is a pity that more attention is not paid to the growing of potatoes specially for tho table, the market, and for feeding purposes, instead of simply seeking the sort that yields the greatest number of busthels. I never saw the potato crop promise much better at this season of the year.

The Hay Crop promises well, the recent rain is thickening it up very much.
I can scarcely say anything about the prospect of the Fruit Crop. It is certain there was never a better show of blossoms, but I am suspicious that the crop will not be very large. Nuch yet depends upon the various insects, drought, \&e., which often make a great difference.
On the whole I think that the farmer's prospects as regard3 the crops generally are good.
C. C. Hamilton.

To the Edifor Joternal of Agriexleure :
Sir,-Having just made a hurried trip through a portion of the counties of Colchester and Cumberland, I forwara you a few ramarks of my impressions about the crops, \&e. Grain is very backward. I should say that less than usual is sowu. It has a very healthy look and colour in spite of the great amount of rain. Wheat has been sown to a greater extent than usual, and looks very well. Potatoes are also very backward; they are fairly above ground, but not forward enough for hoeing. I heard some complaints that the wet prevented their being hoed, but I have hardly seen auy sufficiently advanced to require it.
The potato fields aro very freo from weeds, which I attribute to the ground having been in good order when it was worked, and to its cousoquently getting a thorough stirring with the harrow.

The general cry is that owing to the heavy rain-fall the hay crop will be very heavy. I thought so too uutil I made my trip. I now think that where the land is in really good heart the crop will be very good, as the bottom is thick and the grass tall; but in average lands, although the bottom is good, there is no length of grass. This is probably owing to the backward season, aud if the weather continues moist and cool, the haying season will most likely be late, and the grass may attain a fair height.
The most pleasing feature was perlaps the richness of the pastures into which the farmers of the Amherst district turn their cattle, and the consequent capital condition of the animals grazing in them, a marked commentary on the prevailing
fashion of pasturing land only when it is too poor to cut hay.

It struck me hat an unusually large number of calves were being sateed and raised this year. Their colour and shape told strongly of the pure blood importations of "'The Board."
Tho lambs are, of course, still with tho ewes. There is much room for improvement amoug the sheep, and I trust that the increased value given for woolthanks to the enterprize of the pronoters of the Oxford and Mancean Woollen Mills -will induce our farmers to preserve their lamls, that the aunual "massacre of the innocents" may cease, and that instead thereof both lambs and calves may be parmitted to attain their full growth. A trip through this noble farmiug districi at this seasou is a great treat, and I caunot conccive any person taking such and then holding tho opinion that Nova Scotir is no place for a man to live iu or make a living in.

Yours obedieut:y,

## J. Winburn Laume.

Oakfield, July 3.

## Yarnouth, June 6, 1871.

Dear Sir.-It is teo early in the season to predicate as to crops; the winter was severe, disastrous to trees and fruit not entirely hardy. Strawberry plots in especial suffered extremely. The spring opeued ear'y enough to get seed inas it afterwards seemed a month too soon, as several weeks followed of quite dry, cold weather, with hard frosts at night, and until the last week absence of rain threatened a dimiwished hay crop. Recent timely showess have removed this danger.
A very nhuadant bloom on all kinds of fruit trees promises a favourable season for fruit, if the still more abundant pests of insects prove not utterly destructive. In every blossom may be seen from two to ten jointed bectles devouring and laying eggs. Hand-pickiug is a tolerably sure cure. Yours very truly.

Cuss. E. Brown,
Sec. Yar. Co. Agl. Soc.
New Annan, June 27, 1871.
Dear Sir,-I received your note of the 2 1st last evening, in regard to the state of the crops in our district, and in reply would beg leare to state that the first part of the season set in cold and dry, but upon the whole the weather was favourable for agricultural purposes; the hay crop looked very backward until about the 12 th of June, when we had a very heavy rain storm, and since that frequent showers, and as far as I can learn the hay crop will be very good. Grain crops look well, and potatoes look bealthy. It is generally allowed that in our section of the county there is a greater breadth of land under crop than usual,
and to present nppearance, with a good harvest and the blessing of the Giver of all good, there will be plenty for mau and beast. Excuse my brief note.

1 ann, dear sir, yours,
Wh. Creionros.

## Lockerort, June 29, 1871.

Dear Sir,-Yours of date of 21 st inst, is to hand. As I was absent from home I dial not receive it in time to answer by the time you wanted it. The hay crop will hardly be an average one, owing to the want of rain in May and early part of June. Potatoes, grain, ama everything else, look well, and promise to be a fair crop. I do not know that there is anything more that I cim inform you on from this connty. Yours, ©c.,
'Thos. Jonsson.
Digby, June 28, 1871.
Dear Sir:-Yours of the 21st inst. ouly came to hand last evening, therefore my reply will be too late for the next issue of the Journal.
As regards the appearance of the crops in my district. I would say that owing to the cold, dry weather of hast month, the grass made but little progress, but the frequent rains during this montla have brought it on very rapilly, and the appearance at present is that the yield will be greater than last year.
Wheat is looking well, but little sown. Barley has a very healthy appearauce, and is generally a sure crop. OatsMore sown than usual, and at present a good prospect for a large yield. The Norway oats, where sown, look very Gine. No doubt the yield will be gooid. Potatoes-The Early Blues look well, and promise to be good. The Early Rose has a very licalliy appearance;considerable quantity planted. Beets, carrots, cabbages, cucumbers and squash have been much injured by grubs; in some places the plants have been wholly destroyed. The currant and gooseberry bushes have been well trimmed of their foliage by a kind of green worm about an inch long, which will nearly destroy the erop.
Hoping this vill be of service to you I remain your obedient servant,

> Wilitas Aysar,
Sec. Digby Co. Agl. Soc.

Middle River, June 29, 1871.
Dear Sir,-Yours of the 21st ult. ouly reacl:ed here on Tuesday, 27th, otherwise I would have replied eatlier.
As regards the state of the crops in this district, it is hard for me to form a definite opinion at this early stage of the seasou owing to the backwardness of the spring. Duriag the mooths of April and May we had an unusual length of cold, wet and foggy weather, which
prevented the farmers from getting in their crops at the usmal time; consequenty all kinds of crops may be reckoued two weeks hater than at this time last year ; but jutging from the present healith appearance of the crops in general is sis locality I think I am safe in stati, that a good average crop may be reiica upon.
'Tho grass on light sanily soils is greatIy benefitted by the copious showers of warm rain during the month of June, and by its appearance at present may bo reckoned at least one-third over last year's growth. The yield frem the Noriliern Red Clover imported by this Society last year will be of incalculable benefit to this district, both from the yield of animal food and its tendency of fertilizing the soil.

Our Society for this year is in good standing both in menns nad members, avd what is very gratifying that the members act with the best hirmony towards one another. Respectfully yours.

John McLemian.

## CRORS IN NEW BRUNSWICK.

A good crop of hay may now be anticipated with some degree of certainty, seeing that we have been blessed with freguent and abundant showers of rain.-Every $u$ ne almost has his own peculiar notions respecting the time and mauner of cutting and securing hay, but it may be laid down as a principle, that the mode which will preserve as much of the natural juices of the grass as possible, with the least expense, is the correct one. Many let their clover and other grasses stand till the seed ripens, when the stems become hard and wiry, containing but little nutriment, and even the leaves have put on that brown appearance which is a sure indication that the sap has left the plant. Cut the grass while it is in flower, while it is yet fresh and vigorous, as it is then that it contains all its useful quaiities. Plants of all sorts, if cut in full vigor and carefully dried, contain nearly if not quite double the nutriment they do if permitted to attain full growth and ripeness. Grass should be made into coaks about four feet high. By making, we do not mean rolling, as some do, but by placing one fork full upon another, giving as small a base to the cock as will permit it to stand firm. Clover hay should remain longer in cock than most other grasses, owing to the large stems requiring additional time for further fermentation, and should be turned over or upside down for an hour or two before removing to the barn, as this will remove all dampuess. In cases where grass gets quite ripe before cutting, it should not be much exposed to the sun, but should be immediately made up into larger cocks, and removed to the barn.-Col. Farmer.

## bussisy institution.

A NEW SCIDOL, OF AGHECULTUIB: AND HOHTICUITUIRE IN CONNr:CTION WITII HAHVAMD CNIVEMSITY, 1871-72.
Insthuctors:-Asa Girar, L L. D., Prufessor of Botany; Thomas Moti fix, Insiructor in farming ; Josiall D. Whinex, L L. D., Professor of Geology and Geography; Frascis Pabmias; $A$. M., Professor of Horliculture ; Dasimi. D. Slade, M. D., Professor of Applied Zoology; Frascis II. Stoneh, M. M., Professor of Ayricultural Clicmistry; Natianifir S. Simiter, S. B., Professor of Zoology; Frascis G. Sanbons, Instructor in Entomology: Jons Trowbinges, S. B., Assistant Professor of Physics; Wilsinarl G. Fablow, Ml. D., Assistant in IJotany; Cuns. L. Jacksos; A. M., Assistant Professor of Chemistry; Pieme J. Boms, Instructor in French; , Instructor in German.
The School of Agriculture and Hortieculture, established in execution of the Trusts created by the will of Benjamin Bussey, will give thorough instruction in Agriculture, Useful and Ornamental Gardening, and Stock-Raising. In order to give the student a sound basis for a thorough knowledge of these Arts, the School will supply instruction in Physical Geography, Meteorology and the elencnts of Geology, in Chemistry and Physics, in the elements of Botany, Zoology and Entomology, in Levelling anid Roadbuilding, and in French and German.

The regular course of study, to be pursued by candidates for a degree, will fill three years. The instruction of the first year's course will bo given at the Latrrence Scientific School, in Cambridge, and students of the first year must live in or near Cambridge. The instruction of the second and third years' courses will be given at the Bussey Institution, and students of the second and third years must live near the Institution, which is situated in the town of West Roabury, near the village of Jamaica Plain, about five miles south-west of Boston, and close to the Forest Inills station on the Boston and Providence Railroad.

## requisites for admishion.

Candidates for admission to the first year of the regular course of the School must be at least seventeen years of age, and must present testimonial of good moral character; they will be examined in Arithmetic, Alegebra as far as equations, English Grammar, and Geography. Candidates for admission to the second year of the regular course must be at least eighteen years of age, and must present testimonials of good noral character; they will be examined upon the studies of the first year in addition to the above-mentioned subjects.

The first examination for admission
will be held on Mhursday, Sepe. 28. 1871, at Latercuce Mrull, Cambridyc, beginniny at 9 A. M.
Any presson, who is not less than eightcen years old, may join the School, without examination, to pursuo any special course or courses of instruction which he is qualified to pursue with adcantage; but such specinl students will not bo regarded as candidates for $n$ degrec.

## BOND OR DEPOSIT.

Every student, when almitted, must give a bond, in the sum of $\$ 200$, to pay all chargee accruing under the laws and customs of the Eniversity. The bund must be executed by two bondsuen, who must be satisfactory to the Steward, and one of whom mast be a citizen of Massaclusetts. Instead of filing a bond, a student may pay his tuition-fee for the year in advance, and deposit such a sum of money, not excceding $\$ 50$, as may be deemed sulficient to secure the payment of other School dues.

## academic rear.

The Acalemic year begins on the Thursday following the last Wednesday in Sept. (Thursidy, Sept. 28, 1871), mad ends on the last Wrodnestay in June, with a recess from December 24th to January 6th inclusive.

## instructios.

Instruction will be given by lectures and recitations, and by practical exercises in the laboratory, the greenhouse and the field. Examinations will be held statedly, to test the student's proficiency.

The subjects to be tauglt during the year 1871-72, are as follows:-
Regclar Finst Year's Course (at Cambridgr.)
Physical Geography,Structural Geology, and Meteorology, Prof. Wminnex.
General Chemistry and Qualitative Analysis, Assist. Prof. Jackson.
The Elements of Physics, Assist. Prof. Trowbimge.
Levelling and Road-making, Prof.-. The Ẹlements of Botany, Prof. Giar and Assistant Farlow.
The Elements of Zoology, Prof. Sialer. The Elements of Entomology, Mr. Sanbons.
French, Mir. Boris.
German, Mr.
Second Year's Cocrge (at West Roxbury.)
Theory and Practice of Farming, Mr. motlez.
Preparation and care of manures and composts. Breeding and cave of neat stock, with special reference to the dairy. Breeding of horses and swine. Preparation of the ground for root crops, hay, and grain. The sowing and planting of different sceds and ronts ior farm use. Field vork with ploughs, harrows, and
seed-sowers. HIarvesting of hay and grain. Use of mowing machines, hay-tedders, horse-rakes, etc. Examination of agricultural implements. Fares accounts.

Horticulture, Prof. Pariman.
Propagation of Plants; the methods of practising it; and the principles on which they rest. Propagation by seed; by cuttings; by layers; by budding, grafting, and inarching. Methods of obtaining new varicties of fruits, flowers, and vegetables. Horticultural glasshouses, their construction and management. The flower gar den;-perennial flowering shrubs and trees; bedding plants; foliage plants; the rose; the lily; the rhododendron; the azale: ; the gladiolus, etc. The fruit-garden;-thestrawberry, raspberry, peach, grape, apple, pear, etc. Nurseries and their management. Manual practice of horticultural operations.
Agricultural Chemistry, Prof. Storerr.
Soil, air and water in their relations to the plant. The focd of plants;-manures, general and special. Chemical principles of tillage, irrigation, systems of rotation, and of spegial crops and farms.

Applied Zoology, Prof. Slade.
The anatomy and physiology of domestic animals. Their proper management in health and discase. Epidemics,-their nature, progress, molle of introduction and proper treatment.

## Entomology, Mr. Saxbors.

Habits or cconomy; anatomy and transformations of insects; their embroyonic development, and their relations to the surrounding world. Means of controlling or keeping in check the increase of imjurious species. Systems of classification. Collection and preservation of specimens.

Quantitative Anlysis, Prof. SToner.
Laboratory practice. Methods of analyzing rocks, manues, plants, milk, etc., and of investigating problems in agricultural chemistiy.

The third year's course of instruction will be hereafter arranged, and will be given for the first time in the Academic year 1572-73.

During the first year of thie regular course the student will be expected to pursue with equal diligence all the subjects prescribed for that year; but during the second and third years the student's course of study, particularly as regards the ainount and direction of his manual practice, may be varied at the discretion of the Faculty of the School, in accordance with the student's aims and purposes.

Women will be admitted to the courses of instruction in horticulture, agricultural chemistry and entomology at the Bussey Institution.

## fees and zäpexses.

The regular fee for the academic ycar will : Sijon; for half or any less fraction of a year, S75; for any fraction of a y car greater than one-half, the fee for the whoce
year will be charged. The fees for special courses of instruction are as follows:-
Course on Farming. . . . . . . . . . $\$ 40.00$ for the year. " Horticulture............ $\$ 40.00$.: Agry'l Chrinistry..... $\$ 40.00$ " Entomology.......... $\$ 20.00$.. ${ }^{6}$ half of the last
For Laboratory instruction in Quantitative Analysis (including the coursc on Arricullural Cheinistry) .......................... . . Sls for the year. The tuition fees will be frecly remitted to poor and meritorious students.
The other expenses of astudent for an Academic year may be estimated as fol-lows:-

$$
\begin{aligned}
& \text { Room ................. } \$ 30.00 \text { to } \$ 100.00 \\
& \text { Hoard for } 38 \text { weeks. . . . . } 152.00 \text { to } 304.00 \\
& \text { Text-books............. } 20.00 \text { to } 2500 \\
& \text { Fucl and Lights......... . } 25.00 \text { to } 35.00 \\
& \text { Wrashingr................ . } 19.00 \text { to } 38.00 \\
& \$ 240.00 \text { to } \$ 502.00
\end{aligned}
$$

The teachings of the School will be amply illustrated by the rich scientific collections of the University, and by a botanic garden, a large and profitable farm, greenhouses, propayating houses, and field experiments. The single object of the School is to promote anddiffuse a thorough Enowledge of Agriculture and Horticulture.

> For information, apply to
> Jases W. Hanmas, Secrelary, Casbridge, Mass.

## Communications.

## Oakfifld, June 17.

Sin,-Following up the subject of my last letter to you, and very closely connected with it, is the question how to cleck the exodus of our youth-chiefly from the rural districts. I called upon the students of Dalhousic College to furnish an Fssay on this subject; and a brief notice of the reasons of our young people for leaving the Province may not be uninteresting, and may induce all who profess an interest in their country to do their share towards checking the emigration.

Each Essay attacks the newspapers that make the people discontented with their own country, and that paint in such brilliant $\ldots$.d seductive colours the attractions of forcign parts; this, I do not doult, has much to do with the outpour of people.

The abrogation of Reciprocity is also given as a reason. No doubt the opening of the U. S. markets would create a great stir in the Province, coal orners in particular mould derive handsome dividends, but selling our coal seems to me living on our capital, like the shipwrecked mariner who, afloat on the salt occan and deprived of anything to assuage his thirst, opens his veins and satisfics himself with a. draught of his own blood. For the moment he is satisfied, but it is at the exp ase of his strength. We may export the raw material-we shall soon
mert the call for the inereased labour, and then again as of old we should commence exporting our own hands to work up our own material and carich a forcign nation.
I believe that more really healthy development has taken place in Noia Scotia in the last five years than ever before, and that in spite of one of the most trying commercial crises the busineso world has ever known. I believe in keeping our Fisheries to ourselves, in keeping our coal at home, and in our own people using it to manufacture their own metals and other products for themselves and for export.

Much blame is attached to wealthy capitalists who keep their money locked up instead of developing the manufacturing capabilities of the Province. No doubt there is a small modicum of reason in this, well worn cry, but let us look the matter fairly in the face. The wellabused wealthy capitalists have in most cases made their own mones, not by rash speculation in a few years, but as a rule the energy of a life time lins been spent in the attainment of wealth; when a man has reached, say 60 years of age, is it reasonable to expect that he should, instead of investing his hard-carned fortume so that he may sit down in case and comfort duriug his declining years, go into speculations, placing himsclf and his wealth in the hands of men who, no doubt, are energetic, but in many cases visionary, and generally without the practical knowledge of the business they propose to carry on. Now I hold that we are an essentially manufacturing country, but we must not run a tilt at men who have done their share towards building up the Province and have made their money in commerce, because they will not, to please us, put their carnings directly into some business with which they are unacquainted. If they wish to keep their money afloat, how much more natural is it that they should stick to the business which the experience of a life-time has made them masters of.
This cry to some one else to do the work reminds me too much of the waggoner's appeal to Hercules for assistance, instead of putting his own shoulder to the wheel.
I look to co-operation, to jnint-stock associations, to work out the desired cnd; to self-help and not to dependence on others. To this end competent managers are necessary-men who have had a technical education-who are masters of machinery and its proper uses. Now it is well known that our people are handy and ready-that a men can go into the woods with an axe and settle himself down and make tolerable shift. I hare, therefore, when attending cur Agricultural Exliibitions, looked for some signs of incentive genius. Now, as far 25 my
memory serves me, the only original thing that I have seen is a joint cradle and churn in which the mother could rock the balby and make the butter at the same time. Our ploughs in our best agricultural districts are made from Scoteh patterns; our threshing machines and other implements copied from American imported ones; therefore I think that the ingenuity of our people is not developed, and I think that the proposal made by one gentleman in lis Essay that a School of Science should be established in the 1'rovince, with classes on the same subject in connection with the various High Schools, is an idea that should be worked out.

There is great talk siout the formation of a Central University for the Province. I go in strongly with the advocates of this. Let the Üniversity that is most anzious for this honour take the matter up and rally its friends; with their help, and with the assistance that the Provincial Government could not refuse to give to such a purcly Provincial purpose, a School of Physical Science, as applied to Agriculture, to Manufactures, to Engineering and MFining, conld surcly be organized in comnection with the College. We should then have fitted our young men to enter into and manage uniertalings which, for want of due supervision, are not now attempted; and I beliece that the same spirit of enterprize that now leads them to the States would then stir them up to develope the resources of our highly favoured Province. None will benefit so much as the farmer by the application of science to farming; none will benefit so much is the farmer by any step that will increase the realth and population of the Province. This is therefore a farmer's question, and this must be my apology for writing of it at such length in your journal.

I am, \&e.
J.W.X.

Tiumo, June 21, 1871.
To the Editor of the Journal of Arriculture: .
Sir,-A few days ago business took me to the nether end of Clifton, historically known as Old barns, in my estimation the liandsomest and most thriving farming district in the township of Truro. The crops gencrally; though not far adranced, were looking remarkably well for the season, and may be taken as the index of what they are in this and other parts of the county. They have bencfitted largely from late mins, and cuerything is now growing apace, and cveryone interested in agriculture anticipates an abundant harvest. The fine appearance pre sented by the crops of Clifton did not surprise me, after witnessing many signs of progress since my last visit, such as new fences, brush cui domn, land cle.red, new land breken up, and last, but not least, new barns. With all respect to the
good fulk of that place, it appears to me that New Barno would liave been a name more in accord with the thrift and enterprise of the people than Clifton, and it would have the advantage of retaining, in sume measure, a name that has been considered a land-mark in the history of the Province. When the first Euglish settlers arrived in that part of the Township, of all the furmer French erections they found but two old barns in existence, on which account they named the place Barn Village, or Old Barns, which name it retained till about threc years ago, when the inhabitants having grown wiser thap their forefathers, changed it to Clifton. Tho Scttlement is pleasantly situated on the Bay of Fundy, opposite Fort Belcher, and is approached by a very attractive shore drive of six or seven miles from Truro. Al city folks coming hither to rusticate should not fail to visit the place, where a large quantity of the best produce that anuually supplies their market grows.

In this comection, permit me to say a word about thorough-bred sheep. You are awaro the Onslow Socicty imported some lambs of the Leicester, and a cross of that and the South Down breed, last Fall. I was fortunate in buying from the Society a ewe lamb of the cross breed, and received at the same time four Leicester ewe lambs from the same breeder in P. E. Island of whom the Society purchased. So far as I have heard these sheep have given the best satisfaction to their owners. Mine were tagged, and put in pasture carly in the Spring. On being shorn, unwashed, the first of June, the cross turned off a flecce of $6 \frac{1}{2}$ lbs.; and the Leicestere 62, 6 를, $6 \frac{1}{2}$ and $7 \frac{1}{2}$ lbs. respectively.

Yours respectfully,

> J. I.

## Miscellancous.

## ST. USTATIA GGANO.

We laave now and again gricvous complaints from our farmers of the difficulty of obtaining manurc. Inland farmers say they have no mussel-mud, they have no kelp within reach, and many of them have no swamp muck. They feed hay and potatoes to their cattle, and yet they cannot make manure enough to sustain the fertility of their farms. In order to meet this great difficulty, the Board of Asriculture induced Mr. Stanford, some jears ago, to establish a Bone Mrill. But our farmers did not take to Bones, and there is so little demand for Ground Bones that Mr. Stanford has no encouragement to go on. He has the Mill in good order, and he has plenty of raw bones, and lie is willing enough to grind them up; but the orders received are so very few, and so very small, and so very far betreen, that
he cannot afford to keep a stock on hand that may or may not be called for. Mr. J. A. Ilughes proposes to give our farmers another chance of redeeming their worn-out farms. IIe intends to briug a ship-loal of Guano to Halifax, carly next spring, providel a desire for it is shown. The article we have seen, and think highly of. In the meantime we publish an analysis of it, and will recur to the subject again :-
Organic matter and anmonia.... . . . . 18.59
Oxide alumina and iron. . . . . . . . . 14.68
Carbonate of Lime, soluble........ . 1.20
Magnesia . . . . . . . . . . . . . . . . . . . . 3.28
Alkalies. . . . . . . . . . . . . . . . . . . . . . . 1.17
Phosphates . . . . . . . . . . . . . . . . . . 9.00
Sulphates, Soda, \&c.............. . . . 4.20
Moisture. . . . . . . . . . . . . . . . . . . . 6.00
Silica and Lime. . . . . . . . . . . . . . . 33.88
100.00

Compared with Peruvian Guano it is not as strong or forcing a manure, but more supporting to the plants through all the stages of growth. At the price named $\$ 10$, it should be a cheaper. material to the planter or firmer than the Peruvian, and in some scasons it will answer better as it will sustain instead of burning up the young plants.

## HOW TO MAKE PRODUCTION POPULAR.

It is an undoubted fact that farm life is unattractive, and is liks a tread-mill. One must rise at light and toil into the the night, and cannct have a dazzliner prize to lure him on- -and he must feel that a roaring world is busy all about him, and he is hid from the sight of it. IIe feels separated from the beating pulse of the world; and in our age when a railroad rums within easy range of cvery man, it goes hard to feel that the world is alive with new jdeas and new schemes, and inventions, and discoveries, in which tre can have no part.

This difficulty must be reached and obviated by bringing the world home to the fireside-I mean that production will become popular just when you make it as chlivening, thoughtful, and poctic as the work of the professions and city arts. Ireretofore it has been sapposed that a meagre hnowledge of reading, writing, and the rudiments of Geography were sufficient for a farmer. When you lay it down that our farms must hare their high school and the farmer lis college training, you will make agriculture the most beritching employment under the sun; you will make it what it was to Virgil and Ilorace, and what it is now to Grenley and Beecher, and what Buerbach in his Villa on the Ihine makes it to Sonnenkamp. Nor the farmer malks ignorantly over thousunds of benuties, of discoverics, of laws, of thoughts, of sources of wealth, and he
does not see them. With a thorough education he will recognize; for instunce, many a man has tilled over a siver mine and not know it ; he has walkel over mutold wealth and discoveries which he had no power to recognize Give him now a knowledge of Chemistry, and he will understand the composition and nature of the soils that he works, aurl his brain will be alive with study and thought, while his hands plough.
He will know the nature and use of a mineral spring - what to do with ase of a of peat or marl. Indeed you have set him on a search, taught him to expect something, and you may be sure he will find something. Teach him Botany; open before him the organic world of piants, trees, and flowers. Every flower that is to another but as a grass spire, is to him a cup brimful of wisdom. Emerson sings, as he looks on the farmer's work,

$$
\begin{aligned}
& \text { Onc harrest from thy fictid }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Another crop thine acres yield }
\end{aligned}
$$

There is no reason why the farmer should not be educated to see the beauty and the wisdom that receives his booted heel. Give him a thorough scholarship in horticulture. so that he can keep even pace with all improvements in varieties of fruits and vegetables, and try experiments himself in the origination of new varieties. It will bring his soul into quick thinking connection with such experimentors as Van Mons, Verschaffelt, Downing, Warder, President Wilder; it will lead him
into sympathy and a comprehension of such princes of and a compuiry as Agenssiz, and Tyndall, and Faraday. What natters it that he is on a farm? his very feet tread the volumes of nature, and these volumes
are open books to him. He anno are open books to him. He cannot go
into his pasture, or his garden, or his into his pasture, or his garden, or his
orchard, but new truths meet him, and orchard, but new not know a pleasure much more exhilarating and healthy than that which comes from success in hybridizing, or by seedlings originating an improved fruit or flower. Last year I brought to bloon several seedlings of Gladiolus, one of them proved to be a varicty hardly ever equalled. Do you know what pleasure, what a fresh draught of life that gave to me? I absorbed its life and beautr into my life, and felt for even that one flower any life had not been in vain. There are farmers who are every year by their experime.'s and scholarly zea!, proving themselves benafactors of their race. Take Dr. Kirtland of Cleveland, who started our Governor Wood and several others of the best cherries;-take Seth Boyden of Jerscy City, who originated the Agriculturist,
and more of the finest stramberries, and more of the finest stramberries, -in-
stance Boyers nad Allan, Bary and Ltance Boyers and Nilan, Bary and added much wealth to our list of grapes
and ienrs. I think I should like to
have my name go round the world embodied in a strawherry; or labelled on a peach. No one who sucked the sweet juices but will breathe a blessing on me, and my immortality will be secured by the ever recurring spring, giving a new bloom to my check. That will be better tham publishing a volume of priceless sermons, or being immortalized in Latin by two D's in capitals. Why, do you think farm life could have been dull, or production drudgery to Goodrich of Utica, who, after years of patient culture, gave us as the result, tine IIarrison, the Goodrich, the Garnet, the Cuzco, and the Gleasson
Potatoes? Such men are putting spurs Potatoes? Such men are putting spurs to progress,-they are doing more than all gok miners to increase the material prosperity of the land, and they are doing only what every young man may do. The field is absolutely infinite. We need nes apples and new pears still,-new strawberries and cherries. I prophesy that in ten years we shall have Quinces more soft and delicious and fragrant for eating than peaches,-berries that utterly supplant what we now use, -and such an advance in fruits and flowers as will make past progress seem to have been slow.

For one I hail the Arricultural Colleges with intense joy. I deprecate every attack upon them. Correct their cerrors, but give them every encouragement. Let us have rural schools of the first order of merit. It is not enough to educate our lawyers and ministers, educate also in the fullest sense your tillers. In Eagland it is becoming quite common to educate the second son for a minister and the third for a professional agriculturist. That is it. Give us professional farmers; make firming as much and as truly a profession as law, and preaching, and healing.

Last fall, at our State Fair, one of the most interesting sights I sair, or have ever seen, was a collection of somewhere near a hundred varicties of potatoces, and some two or three score varieties of tomatoes from our State Agricultural College, ench lialled, and all presided over by a young student, who was as well skilled in such roots as ever a classical student was in the roots of Latin and Greok. Now I do not care to cat tomatoes, but I can work very enthunstic in raising them. Fejec, Early York, Tilden, Sim's Cluster, Cook's Favorite. Lester's Perfected. I like to know the origin, history, color, and solidity of each; just the shade of color, their prolific rank, and season of ripening. And really $I$ estoem acquaintWese with every new pototo, from the old Western Red, at $\$ 1.50$ per barrel, to Early Rose at 590, as much as my acquaintance with Cicero, Virgil, Sallust, and Homer.

Nor is there any reason why tho farner should not bo taught astronomyThank God, one does not leave the stars

There is no reason why every firmer of moderate means should not have his small teleseope mounted in an observatery on the roof, and with it take many a tour far wider and more useful than the tours of the wealthicr tradesman. Whereass the one goes to buy dry goods, the other
goes to buy truth; te gocs to buy truth; the one goes to the metropolitan towns of his native earth, the other visits the metropolitan worlds of space.
Let the idea be thoroughly adopted, that no one needs a more thorough education than the farmer, that he must have a thorough discipline of mind. Send him out into the fields to meet sciences, inven. tions, discoverics, art, poetry, and law. and you have uterly transformed himYou have turned the drudge into the the king; you have made him Lord of the soil. Now you rarely find a farmer who has skill or information that gocs farther than a well-covered mow, and a well-curried stall. His farm is only so many acres of pasture, and meadow, and woodland, out of which to get the heaviest crop and the best living.-From the Gar-
deners' Monthly deners' Monthly,

## fruit in tile vicinity of montreal.

The alluvial terraces surrounding the mountain in this part of the Province of Quebec have long been celebrated for the groirth of fruit, especially apples, and in sheltered situations for peas and plums, while small fruits are grown successfully far north of Quebec city. Of the apples which suceeed best in the vicinity of ALontreal, I note the following in the order of their suitalijity, viz: Famense, St. Lawrence, Pomme-Gris, Alexander, Earby Joe, Spanish Reinette, AutumanStrawberry; Duchesse d' Oldenburg, Red Astrachan, Bourassa, Dominic, Ribston Pippin, Blue Pearmain, Indian IRareripe, Lady, Apple, American Golden Russet, Keswick Codlin, Early Harvest, Primate, and Tetoffsky ; also, the Montreal Beauty, and Transcendent Crabs. All the above do well here if proper attention is given to pruning the trees after the leaves. have begun to mutold in spring: some of them towards the end of my list if proned in winter (as is customary here) become affected with black or sap canker, which commences at the pruning, and spreads very often over the whole tree. This applies mostly to trees originated in warmer climates than ouns, or rather where the winters are shorter.
The St. Lawrence apple originated in Montreal about fifty years ago, in the garden of the late Henry Schroden, from the seeds of some decayed apples thrown on a manure heap. Three others, seedlings of some merit (one of them a russet) originated from tho same lot; but the St. Lawrence is the only one now in cultivation, and the original tree is still alive and healthy; or at any rate uras a ferv years ago. I have given these fer particulars, as the orivin of the varicty is not generally known. The first Northern Spy and Early Joc apples in this Province were fruited in my grounds from trecs brought from Rochester, N. Y., over 22 Jears siro.
borne regularly and profisely ever since, and is a perfect pieture of health. Nothern Sp y fruited when filteen years old, bearing a few apples that and the succecding year, and then died root and iranch. $1{ }^{\circ}$ have tried several trees of the same variety; with similar resullts. 13oth these varieties originated in the same orchard in New York, and both are of the finest quality; but I regret to say that Northern Spy will not succeed here, and we must look to you for our supplies of them, as they have alrendy become the standard winter apple of this market. King of Tompkins County, Baldwin, Euglish Gooden lippin, Detroit Red, Summer Rose, Earty Strawherry, Maiden's Mlush, Swair, Gravenstein, 'Tadnan Sweet, Twenty Ounce, Hubbardston Nousuch, and a numiber of English varieties, are not suited to this climate ; while others, such as Esopus Spitzenburg and Fall lippin, are hardy, but very poor bearers with us.
About four years ago a succession of cola rains in the latter end of May completely killed of the apple catterpillire, which for the last fifty years lave been so destructive to the orchards here as to cause many to :ibandon the culture of the apple altogether. The riddance of this pest has greatly stimulittod the planting of fruit trecs, and there have been more orchards planted during the lant three years than during the ten years previous. I note these facts because it is erroneously supposed hure that the protecting of insectivorous birds during the last few years has caused the disappearance of the apple caterpillar. During a close observation of twenty-five years, I have never seen an insectivorous or amy other bird that would touch an apple caterpillar, and my observations are confirmed by our oldest orchardists. I do not wish to undervalue the protection of birds, but I can positively anfirm that our exemption from apple caterpillars is in no way comected with such protection.

This whole sulyject of insect devastation is one which must in future compel the serious attention of the horticulturist. The prevalent ignorance of entomolory as practically applicable to horticullure, is deplorable. If the socictics of the Dominion would apply themselves to study the conditions under which insect life prospers, they will inaugurate a new element of success in frut culture, an clement becoming every year of increased importance from the constint increase of our ourn minute but formidable enemics.
I may remark, however, that apple trees here, if we except the caterpillar, are exempt froin many insect depredations, owing to the severity of the winters and the depth of the snow, as after a very mild winter insects iere are mueh more numerous and troublesome.
The best time for planting fruit trees here is oo take them up in the fill, heel them in fir the winter, and plant out in the spring. The cold dry weather so prevalent at the commencement of winter is very destructive to fall-phanted trecs. If the holes where the trees are to be permenently planted are prepared in the fall, and the free laid in the same by the heels and well covered, so that in the spring it would only lave to ice raised to an upright position, not more than one tree in a hundred would fail.
I have planted a great number of drarf apple trees during the last twenty-five years. Whith tare execptions they succecd for a fer years only. They form an enormous protuber-
ance at the graft, and if the roots are :ot thrown out above the junction, the tree either dies or breaks of there. I'lave only oute dwarf apple tree remainiag (Autuman struwberry), which is twenty-tivo jears olld, and a marvel of fiuitfulness; lint I know that it has rotted above the stock. Dwarf apples will never be a success here in a pecumary point of view.

## pear cultume.

As this is the most northern limit for the pear tree to be grown with suceess, I must trespass on your patience a hittle by stating a few of the circunstances under which pears were formerly grown here, as contrated with the modes of cultivation gencrally practised at the present time, as they firnish some useful lints to those who may attempt the calture of the pear in the northerlh parts of the Dominion. The early French settlers planted in the vicinity of Montreal a great number of pear irece, of kinds that were common in Larupe over a hundred years ago, such as summer Bon Clretien, White Boyemme, Capiumont, Green Clisel, and a few early summer varieties. Many of tiese trees attained a great age, and grev to a larre size. I have trecs grafted from a leeure Capiumont, which was cut down a few years ago in this cits, the wood of which was quite sound, annl it was at least a hundred yea's old. I had these scions grafted on pertectly hardy wild pear stocks, and yet I have haid the greatest dificulty in keeping these young trees from being winter-killed, in one of the most sheltered amd favourable situations on the island of Montreal. Now, previous to the terrible winter of 1858-9, there were quite a number of these large pear trees about there, which bore large crops of fruit and were, for trees of such age, in a thriny condition; aud 1 find frompersonal cxaminition and enguiry that most of these treca were never manured or had the ground cultivated about them; that they made a very small annual growth, wrich was in consequence well ripened at the end of our short hot summers ; that this small growth hadi a tendency to make the tree fruit carly, and this early fruiting would check the redundant growth of an unusually favourable senson, and emable the tree to ripenits wood as usunal. Such were some, at least, of the conditions under which these fine old trees grew and prospered. Let us consider for a monent the conditions under which pear trecs are planted by the million at the present day, and which groce, but don't prosper.

In the first phace, the nurseryman endeavours, by high manuring and cultuation, to have lis trecs fit for sale at tivo or at most three ycars from the bud, and his trees are as large as they ought to be at twice that age. These frothy haif-ripence things are sent ail over the country:. The parties who buy them real up the subject of horticulture; they leara of the immense progress trees make with high culture and manuring, and they saturate their ground with rich stimulating mannre. In a scason or two the roots have got fully ectablished, and a strong rapid growth follows, very delightfful to look at, but which the succeeding winter will certainly destroy:
Turning Over the Grane after it is thrashed, should never be neylected. No matter how dry it maly appear, it will sreat if not turned occasionally. If it gets heated, turn it at onec, and then run it through a fan-ning-mill.

## DON"I SOW TOO EARLy.

A decision was rendered recently in ono of the Philadelphia courts aganst a claim fur damages made by Jacob Kessler, a market-gardener, who brought suit against Mr. Dreer, the well-known secdsman of Philadelphia, 隹 having sold him Early York cabbage seed that "run to seed." The secdsmen of the whole country are indebted to Mr. Dreer, and no doubt will tender him their hearty thanks, for tho grit he slowed in standing a suit rather than to compromise, as the chances wero more than even against him, the sympathies of the jury being most likely to bo with the comphanamt in such a case. The ventilation of such a matter is exceedingly instructive to those engaged in gardening operations, as was showa by the facts elicited on the trial, the gist of which was, that Mr. Kessler had sown the cabbage seed on the 5 th of Scptember instead of 15th, and that crror, combined with an unusually mild and growing fall, practically lengthened the season, so that the cabJage plants became "amuals"-running to seed within the year of sowing-rather than forming heads and acting as "biennials," as was expected of them. Now, just here an excellent lesson comes in with mother vegetable. Most of our so-cailed scientific gardeners are English, Scutch, Irish, or Germans; they come here, most of them, with a thorough contempt for our rougher style of doing things (a practical style horn of our necessities in the higher cost of labor) ; and it is next to impossibe to convince one in a dozen of them, that there is anything in horticultural matters here that he needs to be informed of. Accordingly, if he wishes to raise celery, he starts his seed in a hot-bed in February, just as he would have done in England, and is astonished to find in July that, instead of forming a thick and solid stalk, as it would have done there, it spindles and runs to seed. If his knowledge of the art had been basted on common sense, instead of the blind routine practice attained in a colder climate, he would have known our season-from April 1st to July 1st-would sum up nearly the same mean of temperature here as it would there, from February 1st to July 1st; and hence it was not only unnecessary here, but dangerous to the welfire of the crop, to sow such bieminal plants as celery in any ther place than the open ground, and tuat not before April. It was just such an error that the market-gardener made who sued Mr. Dreer. IIe had been following likely in the Euglish or German method, and paid the penalty not ouly of losing his crop, but losing his lawsut, by not adapting his practice to our conditions of temperamure. As the matter of sowing the seeds of cabbage, cauliflower, and lettuce to make plants to winter over in cold-frames, is
one in which there is a widespreal interest, I may hero state that the time of sowing in fall, in a country having such an area and difference of latitude as ours, is somewhat dilientt to gauge; but taking the latitude of New Youk as a basis, the safest time we have found to sow is from the 10th to the 15th of September. Of late years we have inclincel rather more to the latter date, and have even sown as late as the 30th Suptember, swithexcellent success, in warm, well-shelterci yositions, in a rich, well-prepared soil. In , mnection with this subject, I would refer to the evils arising from the two common practice of many of our agricultural and horticultural journals, selecting from English papers articles that often seriously mislead. For example, a Boston magazine not long ago copied a long article from the English Journal of Horliculture, telling us, in a very patronizing way, how to propagate the golden tricolor-leaved geraniums. The writer laid great. stress on having a sharp knife, and cutting the slip in a particular manner, then to insert it in silver sand, and a lot of other nonsense, that any boy of six months' practice here would have known was absurd; but above all, the operation was to be performed in July! He might have got the sharpest knife that was ever made, and the purest silver sand that ever lay on the seashore, but he would have utierly failed in our climate, if he attempted the work in July. This is only one of scores of such absurd selections as we see yearly in some of our horticultural journals. If the conductors of such have not original matter to fill up with, better far that they leave their pages blank than to show their utter ignorance of what is suitable to our climate.
[The above is from the American Ag riculturist, and from the pen of the celebrated market gardener Peter Henderson. We maderstamd that during the present season some cases amalagous to the one described have occurred in Nova Scotia. The only remark we wish to make at present on the above article, is, that while Mr. Henderson shows a needless antipathy to some "Boston Magazine" lie at the same time exposes a little bit of ignorance of which no English gardener's apprentice could be guilty; in speaking of "silver sand" beng found on the sea shore. The silver sand of English gardeners is quite a different substance from that known to poets, and one would have thought that Mr. Henderson knew something about it. Its cficacy in promoting the rooting of cuttings is such that without it many plants could not be propagated at all.Ed.J. or A.]

Recreation.-Ater the harvest is all securced, go a fishing for a fery days and take a litue rest! A farmer needs it if any one does.

## TALK WITII FARMERS.

## Malys: sugall maling.

The following little essay on maple sugall may not be of much interest to some of our backwood friends, but as all are not familar with the sugar-hush, it is given for the benelit of the mitiatel. The farmer here referred to was a Lower Canalian, well versed in all matters that savour of "home production," rather than from the store.
"What sort of sugar season have you had near Penetanguishene?"
"Oh, fine; there has been a great deal of sugar made."
"Do you work at it yourself?"
"Yes, and that is why I want to get the sugar-bush. The land is bad; it is so stony that it camot be ploughed, and there are good maples on it, and it will suit weil for sugar-making."
" IIow do you make the sugar?"
"In the spring, as soon as the sap will run, wo collect the sap by tapping the trees with the axe, and setting troughs, which wo make out of basswood, to catch the sap; we also make lusckets for the same purpose. We then rig our camp and kettles, and having got our wood together, and the shanty fixed, we get the team and go round to the trees and collect the sap. which is brought to the camp, and we then fill all the kettles. The sap is carefully strained through woollen cloths, and soon boils We keep the fire down as soon as the satp butis, and as it boils away we fill up the kettles until the syrup gets pretty strong. We then put all the contents of the kettles into one, to come first into sugar, and fill the others with fresh sap. The one mith the syrup is kept well off the fire; the others are mado to boil as fast as they can, so that they do not boil over."
" How do you prevent the sap from burning and browning in the kettles?"
"We take care to keep the kettles pretty full, and then the fire does not make the sides of the kettles too hol; it does not burn or brown easily."
"Does it not boil over when it gets thick?"
"Ol, yes, it would; but we take care of that. . Some hang up a hunch of twigs or brush over the kettle, with the points of the brush cut off square, and which go just inside the kettle. As soon as the sap boils up the twigs break the bubbles and it stops the boil."
"Is there any other way?"
"Ies; some take a piece of pork, and hang it by a string just so that when the bubbles rise they shall touch the pork; aud as soon as they do this they break and go down owing to the fat. Others put : little bit of butter in the kettles, and that keeps down the bubbles; but both these plans make the sugar tasto a
little, and for that reason the twigs are best."
"Do you ever use white of eggs, or anything else, to clear tho sap?"
"Some do; but it the sap is kept clean and free from dust and other things there is no need of anything of the kimi. Nothing makes the sugar so good as the pure, clean sap."
" IIow do you know when it is lone?"
"We judge it by taking a little between the dinger and thumb. When it is fit you cant feel it, and it sticks in a particular manner. It may then be poured out into moulds, and it will become solid and can be stirred into loose sugar."
"What is the best part of the season, and in which you make the best sugar?"
"The begiming and midalle of the scason are hest. Towards the end we make the sap mostly into molasses, as it does not 'sugar' so well."
"What kind of 'sugar work' do you like best?"
"I like the kettles set in arch best, tho sap kettle beiug the one over the fire, and the sugaring-off kettle farthest off. I always used my potash kettle arch for this purpose, and make excellent sugar in that way.

## "IIow many kettles make a complete work ?"

"I like four kettles, and we can then boil down about fifty bushels of sap a dar"
'The illeat of a 'bushel of saly' was nev to me, so I asked for explamation as to how the bushel measure came to be applied to liquids.
"You see" (the answer was) "we maie our pails to hold half a busbel each, and so we kerp count."
"But your pails." I replied, "only hold two gallons each." (I had the consmon patent pail in mind, but that did not suit Lower Camadian ideas.)
"No," he said, "we make our pails to hold four gallous cach, that is half a bushel."
". Lhav do youl collect the sap?"
"We use a sleigh with a barrel, aud the liorses."
"Don't you use cattle?"
"No; not much. It is dangerous for the cattle to get at the sap, which they will do if they can, and drink till they lurst thenselves. They will also get at the molasses, too, if they can, and a very little molasses will kill an ox."
"Well, but won't the horses drink the sap?"
"Yes, and they are very foud of it, biit won't take enough to hurt thens. They will always take a little drink every time they come to a trough, it they can; it does them good, and makes the vinter coat all come off at once, and leaves them very sleek, with beautiful coats."
"How much sugar could you nake in a scason ?"
"The last season I worked at it I made a thousand pounds weight; but it was very hard on the horses, as the trees were so wide apart, and I bad so far to go, and I will never try them so hard again. They were overdone, and were injured for their spring work."
"Is your sugar always alike?"
"Yes, I always make it good."
The fact is that our Canadian farmers with their usual improvidence have so cutjdown our beautiful groves of maple that a good sugar-bush is now a rarity. Maple always grows on the best land, and makes the best firewoul : so that what would be both a valuable source of income, and also of domestic cconomy, is sacriticed for the present inced. Maples carcfully tapped and properly taken care of will last for generations, and yield sugar every year; but they have been ruthlessly slaughtered in every direction, and the consequence is that a gooll sugar -ush is a great rarity. Maples arn now being planted in many places, and as they grow tolerably fast, und aftord a beautiful shade, while they neither throw up suckers nor are in any other way a nuisauce, we may yet hope to sce these trees regularly planted round our fields and homesteads, and by the roadside. In soil that suits them the result would he shelter for the fields in winter, and the snow kept on the wheat, and thus winter-killing avoided, and in the summer good shade for our cattle, and for ourselves a picturesque beauty added to our landscape, which none begin to appreciate until atter they have denuded the land of all trees, and have felt the incvitable effect of exposure in winter, want of shade in summer, and the drought which ulways attend the removal of forest trees from the soil. Dlany places in Spain are norp uniuhabitable by drought for want of timber, which formerly were well watered tracts.

Advice from New Brunswick."The Nova Scotia Board of Agriculture had a meeting recently, to make some preliminary arrangements for the importation of cattle, sheep and pigs, next fall. The present intention of the Board is to import from Ontario, as the stock obtained from there last year, and on previous occasions, have given entire satisfaction. We hope the Board will be successful in the future, but we think it would be more to the advantage of the country if a direct importation of sheep from the other side of the water was made. Our latest importations of sheep from Ontario lave not been the ronst satisfactory."
The above is from the Colonial Farmer. Good sheep can perhaps be got cheaper in England than in Ontario or Quebec, but we have tried both plans, and have
found the Western sheep to give more satisfiction than those imported directly from England-Ed. J. or $\Lambda$.

## IINNTS ABOUT WORK.

Haying and Hartestang are supposed to be the most mportant work fur July. There is a sense, of course, in which this is true. But if thuse of vur readers who keep a daily record of their farm operations will turn to then, they will find that gathering the crons constitutes, not withstanding its traditional and real importance, a very small part of the astual work of the month. With mowers, reapers (we wish we could ada binders), tedders, rakes, and unloading fooks, all run by horses, harvesting calls for the excreise of very different faculties than it did when the farmer, notwithstanding his many eares, found it necessary to lead the mowers and crakles in the hay and wheat field.

The Most inpontant woik of this movtir is doing those things which wa are constantly tempted to neglect. Among these may ve nientioned:

The cellar, drains, sinks, priv; etc., must be kept clean. Dry earth is the best and cheapest disinfectant. For sinks and drains. use copperas or chlorid of lime. The nights and mornings are frequently chilly. Make a little fire on the hearth, or in the stove. Go to bed early and get plenty of slecp.

Kinimg Weeds is one of the most important labors on the arm, at this season. None should be suffered to go to seed, if it can be avoided without too great expense. At any rate, not a weed should be suffered in corn, potatocs, and other hoed crops.

IIfling Cons, notwithstanding so much has been sail against the practice, still has many advocates among intelligent farmers. In our own case, we throw up it little soil to the plants carly in duly, in hopes of smothering some of the small weeds in the hill. About the first of August we go over the field, and hoe out such weeds as have escaped, and the soil that has been thrown up can be hoed away without injury.

Wood Ashes as a Fertilizer.-This is one of the most valuable fertilizers within the reach of the farmer. The unleached article has the more potash, but the leached is thought to be quite as valuable. In leaching they shrink a good deal, and lime is usually alded, which increases their value. They are generally sold, too, at a less price. Ashes are well suited to all farm crops, and are very beneficial in the fruityard and orchard. Most farmers sell wood in the cities and -villages, and mather than go home cmpty they should carry back ashes and other fertilizers, to replace the potash, lime and phosphoric acid that have been carried off in the crops and animals sold. Ashes show inmediate effects from their application, and at the same time last long in the soil. They are very highly appreciated in the onion growing districts, but may be applied with equal advantage to ordinary farm crops. They should be kept as near the surfice as possible, spread and harrowedinto the seell bed or applied directly to the growing crops. Make a business of saving, buying and storing ashes during the winter for the next scason's operations.American Agriculurist.

Reports of Agri. Socicties.
YARMOUTII COUNTY AGRICULTURAL SOCIETY.

FEBMUARY MFETING:
Quarterly Mecting. Minutes of last meeting read and approved. No Journal of Ayriculture having been published since Nuvember, and no communication from Secretary of l3oard of Agriculture, the grant for 1870 is not yet determined.

Voted to dispose of seed on hatnd as follows :- Farly Rose potatoes at $\$ 1.00$ per bushel, in any quantity, to any applicant. Russia Wheat and Seed Barley at cost, until season of sowing, when lalance on hand will be disposed of at auction.

Voted to purchase a Stud-horse, if one can be got at from $\$ 300$ to $\$ 500$, also from 6 to 12 Southdown and Cotswold Lambs, wherever they can be best procured.

Voted to appropriate $\$ \overline{0} 00$ toward an Exhibition, to be held on the same date as last year, on Thursday, 5th October, details to be arranged on next quarterly meeting.
may quarterly mbetmg.
Quarterly Mecting. The Presiden in the chair. Number of members to date, (41) forty-onc; amount subscribed, (\$157,00 ) one hundred and fifty-seven dollars; cash on hand, exclusive of subscription list, $\$ 417.49$ ) four hundred and seventeen dollars and forty-nine cts.

Minutes of last Mecting read and approved. Provincial Grant for 1870 , since received, ( $\$ 189.00$ ) une hundred and eighty-nine dollars.

The Seed on hand having been duly advertized, about (11) eleven bushels of "Early Rose" Potatoes were sold at (\$1) one dollar per bushel; there was not a singleapplicant foreither Wheat or Barley; —after the middle of April, the whole lot was advertised and sold at auction; "Early Rose" brought 65 to 85 cts. per bushel; Barley 90 to $90^{\circ}$ cts., while the bulk of the Wheat, (12) twelve bushels, brought only 69 cts ; so much for the attempt to promote the growing. of Wheat in the County:

In reference to the purchase of a Horse, Mr. Horace B. Porter having bought the Horse "Black Hawk" from the Hon. W. A. Henry, and the latter gentleman, in a letter to the Secretary, giving the Horse a high character, stating that he did not think the Society could do better even if they paid hundreds of dollars for a Horse, it was not thought necessary for the Society to buy one.

Voted that the Ayrshire Bull "Prinso of Walcs," now in the keeping of Mr. Ansel Goudey, be offered at auction or the first Saturday in June, the purchaser to be amember of the Society and to give bonds to keep him three years.

Voted that the preparation of a Premium List for the Exhibition in October, be
left to the Secretary, with an amendment in the Class of Working Oxen, to include two more Sections, 5 years old and upwards, and 6 years old and upwards.

It is presumed from the interest taken in the Society last year, and from the success of the Exhibition, that there will be room for selection in the choice of Committees for the Exhibition at the next quarterly meeting in Angust.

Charles. E. Browz, Sec'y.

## Saturdax, Brd June, 1871.

The Ayrshire 13ull " Prince of Wales," having cost to this dato nearly $\$ 150$, and having been duly advertised was offered to-day at public auction, by Messrs Wm. Law \& Co., being a regular weekly auction day. There was a large assemblage of miscellaneous buyers but not many, apparently interested in live stock. The first bid was ten dollars, the next forty, and there was no trade, so " Prince of Wales" was knocked down to Charles E. Brown at forty dollars. A fine yearling grade Short Hom Bull, from "Western Prince," was offered at any advance ou forty dollars, but withdrawn.

Our sales of stock are very discouraging. With the great improvements effected within the last few years, risible in the number of fine young stock growing up and demonstrating the value of pure blood, it is difficult to understand the backwardness of our well-to-do farmers in failing to engage more heartily in the inprovement of their stock. There is $n o$ lack of demand for the grades, calves of three or four days old will sell at five to six dollars, forty dollars has been offered and refused for promising yearlings; and two or three years old Heifers bring from fifty to seventyfive. With more care breeding ligher grades better prices will be obtained, and there will always be a market in the United States fur surplus stock if good at higher prices than at home.

Charlifs E. Bnowa, Sec'y.

## ADVERTISEMENTS!

## Rough Plate Glass

## For Mothouses and Garden Exames

 Can be supplied as under:In ILL.ITES containing not above s. d.

Delivered fo. b. at Liveflool, subject to 10 p . c.
disco unt. l'acking case to be charged ior.
Orders sent to TIIOMS PAYNE, lost-OFTiCE,
Halifaxi, vill receivo immediate attention.
july; 1871.

## For Sule.

A THOROUGII-BRED

## berkshire boan,

16 months ofd. Aiso-Two do. do., about 8 reeks old. Xphy to the LARMEK at Ashtbourne, Vutch Village.
Halifux, July 1, 1871.

## NEVF AND IMPROVED

VEGETABLE SEEDS. potatoes.
King of the larlics or Fify Dollar fotato-The carliest, most prolific, and finest of all the Amcrican varicties. $13{ }^{\circ} \mathrm{lbs}$, raised from one. 25 cents 16 .
Climax-For carliness and productiveness ranks with the very best ever sent out enther by $\boldsymbol{A}$ merican or Einglish growers. $12 \frac{1}{2}$ cents 16.
Bresee's I'rolific-PTubers large, regular in shape; produces no seed balls; flesh white; cooks quickly; is rery mealy and of excellent quality; yield ex. cceding one hundred fold; a most valuable varicty for ficld culture. $12 \frac{1}{2}$ cents lb .
farly losz-This standard variety has proved one of the best ever introduced. It has fiven satisfaction to all Its carliness and productseness being attested by all cultivators of note. 5 cents Ib.
Garnet Chili-EEurly Whites aml Russien Blues. So well known by all cultivators in this province, nced no comment.

Champion Scarlet Runner-A gigantic variety. 50 cents quart.
Marblehead Mammoth Drumhead Call e-Alarge varicty of liat $1 D_{a t c h} 121$ cents iket.
Inproted Eiarly Paris Canlifiocer-12t cts. packet. Sealey's Leciathan White Celery-Tho largest in cultivation. $12 \frac{1}{2}$ cts. packet.
Giant Roccr 2 ripoli Onion-A large varicty, and better suited to this climate than Danvers' $12 \frac{1}{2} \mathrm{cts}$. packet.
Abbol's IJollow Crown'd Parsniy-The best flavoured Parsnip in cultivation. 10 cts. packot.
Mammoth Prize Squash-Grows to weigh 180 ibs. Trophy Tomato-The earliest and best red. 10 cts .
Sutton's Ri gleade. packet.
carliest stick pea grown. Ileight 3 fect the
30 cts. quart.
Saunders "Lille Wouder" Pea-The best and most productive dwarf Yea known. Requires no sticks. ileight 9 in . 25 cts . quart. Carter's Imperial Siceed and Mammeth Mangels. Carter's Mammoth Jangel Werzle- 40 cts. Ib. Carler's Imperinl Sucede-40 cts. lb.

## ALEIEED SAUNDERS,

Practical Seedsman \& Eorticulturist,
170 Argyle St., IIalifax, (oprositc Messrs. J. Northup ${ }^{9}$ Sons.)
May; 1871.

# SEEDS <br> FOK THE <br> FLOWER GARDEN, <br> EITCEEN GARDEN, AND FIELD. 

OUR atocic of SEFDS, of the growth of 1870 , is now complete, and comprises the finest assortment ever offered in Halifax. The last scason having been very favorable for the ripening of Seeds, the quality of all kinds will be found excellent.

Farmers and doricultural Socictics will do well to examine our stock of TURNIP, CARHOT and MANGEL-WURIZEL, Secd Oats, Sced Potatoes, TMOOCII and CLOVEH, all of which we offer at lowest market mies.

Dealers wial be supplied on liberal terms, cither by the pount, or in small packets for retailiug.

FLOWER SEEDS forwarded free by post io any part of the Dominion.
in Illustratcd Descriptive Catalogue, contajning much useful information as to the culture of Seeds and the management of the garden, may behad free on application.

AVERY, BROWN \& CO.,
Miy; 1371.
8, 10 and 12 George Street.

## Early Rose Potatoes.

20 BAluLELS, in prime order. For sale by AVERY, BROWF \& CO.

## May, 1871.

## AgRICULTURAL BONE MII

TIIIS MILL is now in full operation, and larg quantities of lbones are ottered fur sale.
The Mill is under supervision of the Board of Agriculture of Nova Seotia, and all Bowes sold a! the establishment aro genuine.

## rhices.

Half inch Bonc.. .......... $\$ 24.00$ per ton.
Fincly-ground Bonc....... 30.00 "
Delivered free of charge, on bcard the Cars at Kichnond Depot.
Purchasers will save trouble by sending their own bugs, which, together with orders, may be lett at Stanford's Leather Store, 26 Wuser Street.

JגMES STANFORD.
IIalifax, N.S., June, 1868.

## AN INCREASE OF RICH

## MITE ANTD BTITEIR

is produced in orery caso where the

## ARABIAN SPICE

is used. llorses run down and in low condition are soon brought round. Ragged, beggarly looking Sheep are clothed with a fleecu of saluablo wool in an astonishing short space of time. the squeeling lyg soon becomes fat and happy when fed on foud seasoned with the drabian spice.

The ALAIBLAN SPICE is warrauted to surpass anything jet introduced tor l'oultry.

Sold an turs $37 \frac{1}{2}$ cents and $S 1$ cach.
Wbolesale from WOOLRICH'S English Wharmacy, Upper Water Street, Haltfux.
June, 1870.

## Norway Oats, for sced.

100 BUSHELS of the above Oats, celebrated for their prodigious yicld. For salo very low.

The new EXCELSIOR WHITE OATS, highy recommended, and greatly superior to the Norway 11ay, 1871.

AVEHI, BHUWNi \& CO.

## WANTED.

ANI person having a pure Ayrshire or Devon BULL for sale, will pleasc comnunicate particulars, stating price, to the secretary of the alcrigomish Agricultural Sodiety.

JOIIN \$. COPELAND,
Secretary Jferigomish Agri. Society,
l'ictou Co.

## WANTED !

Any person liatving a lure DEVON or DURIAMM 13ULi. for Sale, will please communicate particulars, stating price, to the Secretary of the Ouslow Agricultural socicty.

WM. BLAIR,
Jan'y, 1871.
Sec'y O. A. Sociely.

## The Journal of Agviculture

-is publishicd monthly by-
A. $\& W$. $M A C M I N X A Y$,

2To. 10, Gnaxvidie Siuest,
HALIFAX, NOVASCOTIA.

Teris of Subscrittion:
Finy Cents per annum-payable in advance.
Printed at the Office of the Noca Scotia Printing Company, Comer of Sackville and Granville Streets, Halifax, N. S.

