

Vol. 4] DEV0TED T0 THE BEST INTERESTS 0F THE COUNTRY.- [No. 9

$\left\{\begin{array}{c}\text { Postage. Prepaid. } \\ \text { Offtee-Richmond St., op. City Ha }\end{array}\right.$

## GOOD FOR MAN ND BEAST. FARMERS READ THIS.

L EWIS as follows:
Messrs. Perry Davis \&f Son-Gents-I have for many, years used your val can testify to its efficacy in curing Gatle, Sprains, Bruises, Cuts, Cramps, Rheumatism, Colic, dc., sce. known it to fail in any case where I have used it. Read the following letter from Dr. Deal, of Bower I have given "Perry Davis' Pain Killer" in many eases of colice, oramp and dysentery in horses, and neve
knew it fail to cure in a single instance. I look upon i $\begin{array}{ll}\text { knew it fail to curedy. } & \text { Dr. JOHN R. DEAL. }\end{array}$
"Pain Killer" is equally good firle hour. farmer should be without it a singe horic
Sold by all Druggists and Medicine Dealers at 25 and 50 cts . per bottle.
ALLEN'S LUNG BALSAM! for the cure of

## CONSUMITION,

 And all Diseases That Lead to Such as Coughs, Neglected Colds, Pain in the Chest and As an Expectorant it has no equal It has now been before the public for a number of year WORLD-WIDE REPUTATION Physicians recommend it in their practice, and theformula from which it is prepared is highly commended by Medical Journals. Cal at the Druggis
Pamphlet. Every Pruggist sells the Balsam.

PERRY DAVIS \& SON, MONTREAL,
m-106-mc-up-
GEORGE GRAY
Agricultural Implement Maker,
Fullarton Street, London; Ontario, W, WFLD

 Veterinary Surgeons, England, and graduate of he
Edinburgh Veterinary College, late Vetcrinary Surgeon
to the Rogal Horses and cattle attended to hand for Ring Bone, Spavin,

Jas. FERGUSON \& Co.,
 Hanufacturers of Hess and Prime Pork, baCon, Shoulders, lard, \&C. Hams and Shoulders Sugar-Cured, And oured in all other forma.
T. M. COUSINS, LONDON, ONT. MANUFAOTURER OF
Self-Acting Cattle Pumps, COMMON PUMPS, FANNING Mills and Straw COUNTEER-BALANCE ROCKINGCHUR!N,


PATENTED by H. SELLS, Dec. 29th, 1888. THIS Churn is superior to all others in use it makes 1 more Butter from the same quanlity of Cream; , in co worked with three quarters less power,
years old can easily charn with it ; makester but
, it years old caa easily churn withil, ind works all the milk
ter as it tathers in tolid Rollis and
out of it.
All this is done in less time than can be made out of it. All this is done in less time than can be made
with a dash churn, and it is quite as easily cared for
Manufactured with a dash churn, and it is quite as easin Manactured
and cleaned as a common danh churn. Manu
by H Sella \& Co. Vienna, Out. price $\$ 5.00$. All orders by H. Sells \& Co., Vienna, out, price $\$ 5.00$. A
will receive prompt attention. Agents wanted.

$\qquad$

## W. BAWDEN,

$\mathrm{V}^{\mathrm{UCTRONEFR}, \text { Iand, Howo }}$

## G. J. BAKER




Washing Machine
with a wringer combineb,


Will save two thirds of the labor, and make the elother nat more than wice shing an moen (inent Wathipg Hyllot hio
SUPERIOR TO ALL OTHERS In, becanse it watee nicker and delenere, and makeen Ithbeaubitw whiter



 now in nue. ©
Oakvile, ont , Mache the faetorv, 110. They may

D. DARVILL, FARM IMPLEMENTS machine oil, \&o.
 Ontario



FACTS FOR FARMERS. The best authorities on Agriculture eay that thorough Boil. ${ }^{\text {D }}$.inage will often save a crop.
rainage will enable a farmer to work his la and much eariier in the spring, and nereby hint
to which late plant oxposes them.
Drainage will often convert useless land into the most Drainage
productive.
pain should not be permitted to run off the surface of the soil, nor should it remain in it to sour, but should precolate through it, and then ber rerties it containe, so
Ing to vegetation the valuable propert
nocessary to the sustenance of vegetable life. Hence the nreat importance of underdraining.
A THOROUGII SISTEM OF UNDERDRAINING prevents of Soil from baking.
Preserves it always in a moist and porous state, so
that the roots can extend to great distances in the soil that the roots can extend to great distances in the soil
in search of nourishment, and thus caues a vigorous in search of nourishment, The undersigned has therefore
growth of the crop. The
gite great pleasure
ers of Ontario,

CARTER’S IMPROVED

## DITCHING MACHINE

An Invention which will supply a great want, and greatly help the agricultarist in osusing "two blades of grase
to grow where but oue grew before, and at a price
and greatly under the cost of ditching and draining in the usual manner-by spade and nattock. - This near TorWas tried and earned the approbation of all the practical men
present, and received flattering notices from the repre present, and received platering notices from the repre
sentativesof the press sent to report upon its merits
The following additional testimonial is now submitted The following aditito anal testimonial is now submitted,
The formine and well known and as it is subscribed oy prownen the undersigned rests farmers in the county of of the machine will remain
conflent that therite of anquestioned, and that the nioro it is
more useful and popalar it will become.
Testimonial of Eye-Witnesses
We, the undersigned, having been present at a rial of of Carter's 1naproved Ditching Machine. held on the farm of Mr. Androw Murray, Malahide, Ont in our judg

ANDREW CHISHOLM \& CO
MPORTERS of Staple and Faney Dry Goode, Carpet and Oil Oloths. Manufacturers of Clothing SIEN OF XEAB. 8TRXXING CxOCx. Opposite the Market Lane.

## W. MCDONOUGH'S

Is the best place in the city for Tens, Sugars, 'Tolaccos, sale and Retail. Terms Cash, Cleqquered $\begin{gathered}\text { Stor } \\ \text { m-o }\end{gathered}$ Richmond Street
ment is perfectly adapted for the purposes of Land ment is perfectly adapted hore exceedingly simple in
Draining, supplying a machine
construction, easily handled, and admirably adapted Donstruction, easily handled, and admirably adapted
cor agricultural purposes, and for which we feel assured for agricultural purposes, and for whic werson requiring
a good return will be realized by any perser
it being satisfied that under ordinary circumstances the a good return wid ter reander ordinary pircumstances the
t, being satisfied that und
Machine is capable of making drains from $2 \%$ to 3 feet Machine is capable of making drains from $21 /$ to 3 feet
deep and 8 inches wide at a ao $t$ of from two to four cents peep and according to the nature of the soil operated on;
per rod ae therefore recommend the said Machine to the
and we and we therefore recommend the said Mach
favorable notice of the farming community. Jamee Brown, J. P., Farmer. Peter Clayton, J. P, Fa
A. J. Davis, Farmer,
Wism William Adame, Farmer
Ezra Foote, M.D. Izra Foote, M.D, Farmer,
John Vanpatter Far
Richard Hill, Farmer. Richard Hill, Farmer ${ }^{\text {James }}$ McCausland, Farmer, Abram Bemer, Farmer, A. Hill, Farmer and Ming, Farmer,
Jesee Learn,
Andrew Murra, Merchant, Andrew Murray, Merch
Jcese Kinasy, Farmer, Jesse Kinnay, Walker, Mercha Simon Miller, Farmer
W. J. Kerr, Merchant Calvin Adam,
Rev, Joseph Ulution,
Tho. Lecker, J. P. Farme Thoe Locker, J. P. Farme Joel W. Davis, Farmer,
Elias J. Adams, Farme
In Eliaa Doolittle, Farmer,
Richard Locker, Farmer, Richard Locker, Farmer,
Benjamin Schooley Farmer, Fand
W. Farthings, Merchant, Benjamarthings, Merchant,
W. R. Far
Alexander Treadwell, Farnier, Alexander Murray, Conveyancer, Wdwin Price, M.D.,
Eeth Lewi, Farmer,
Seth Thomas Little, Farmer,
John W. Gillett J. P., Farmer,
Geo. F. Clark, M.D., Geo. F. Clark, M.D.'
Ganes Pritchard, Farmer,
Harvey Vanpatter, Farm
The Gross Weight of the Machine for shipment is 1370 lbs
Price at the Factory, $\$ 130$.
Applications to manufacture on Royalty; or for Machines, to be addressed to
DANIEL STEWART, Ayimer, Co. Eigin, O., Aug 6, 1869 .
$\qquad$

[^0]PROVINCIAL EXHIBITION

AGEICULTURAL

## arts association

OH'ON'NARIO. TO BE HELD ATLONDON,
х тн

21st TO THE 24th SEPT., 1869. Persona intanding to exhbit will please take notioo解 andermentioned dater,
Horres, Cattle, Shecp,
Hurdey, Augns suth, Grain, Field Roots and other Farm Producte, Agricul tural Implements, Nachinery, and Matinat
ally, on or before Saturday, Auguet 28 . Horticultural Producte, Ladies' Work, the Fine Arts,
sc., on er before Saturday, September 1ith. Prize Lists and Blank Forms for making the entries upon, can be obtained from the Secretaries or throughout
cultural Societies and Mechanics' Institutes then cultural Socie
the Province

HUGH C. THOMSON
Secretary.

## TOHORSEMEN?

 NO HUMBUG$\mathrm{H}^{\mathrm{O}}$ a to make any Horee trot fart without the use or Price a track, and a rapid cure for kne-sprung horbeipt of price full particulart whi be for warded. Address,

PROF. JARDINE,
Anrora, Ont.

Mount Hope Nurseries, ROCTESTERE, N.Y. $\mathrm{T}_{\text {His well-known establishment, founded } 30 \text { years ago, }}^{\text {by the present proprietors, and conducted ever sinice }}$ and at the present time under their personal supervision, country, embracing;
STANDARD AND DWARF FRUIT TREES, GRAPESAND SMALL FRUUDSHRUBS
ORNAMENTAL TREES AND EHR ORNAMENTAL, TREER AND
NEW ANDRARE FRUITS MF ALL SORTS
NEW AND RARE ORNAMENTAL TREES, NEW AND RARE ORNAMENTAL TRERS, mental, is the largest in the U. S. Extensive specimen
grounds are paintained at great expense, to determine grounds are maintained at great expense,
qualities and
neure accuracy in propagation qualitier and nare accuracy in propagation
Ordere for large or mall quantities promply and care fully filled. Packing performed in the moet skillful and horough manner
Small Parcels Forwarded by Mail when Desired Nureery men and dealera supplied on liberal terms.
Descriptive and Illustrated priced Catalogues, Ben Descriptive aid
prepaid on receit of stampred ar follows:
No. - Fruits, 10c. No. $2,-$ Ornamental Trees,
 No. 3.-Greenhouse, se Adrees ELIWANGER \& BARRY, 1-in-sept-n-p
C. MOOHEMEAD,

May, tf-u.
UPHOLSTERER, so. FOREALE.
SOUTH * of iot 25 , concession 7, townebip of Bererly, D county of Wentworth, containing 60 acres and
45 acres cleared nand fenced.
On the premises there tis a log house, loo barn, frame atable, sheds, eheep and pig
houpes, a thriving erchard and a good well. Also the houper, a thriving orchard
south 45 of lot 23 , same concession, containing 50 acres ;
On it there is a south 45 orces cleared and fenced. On it there is a
nobut 25
nood frame barn and aleo a good well. ghe property lies within 18 miles of Hamilton. Price The property lies within 18 miles of Hamilon. Pre
$\$ 2200$, not less than half of the price to be paid down. The above property may be exchanged for land in the The above property may be exch
Wetern Section of the Province.
Address,

ROBERT R. HUNTER
Kirkwall P.O. Wentworth Co.

## SOUTH DOWN SHEET FOR SALE.



## That it is a good rule to sell your grain

 hen it is readyThat the first mellow soil in spring is your mellowest, and should first be put in. That great changes of weather hurt cattle, as well as men.
That all of farming is summed up in the manure heap made on the farm.

## AGRICULTURAL EMPORIUM

We again call your atention to this underta king. The seeds we have disseminated, are this year giving greater satisfaction than ever. We solicit the aid of cach leading gentleman in each part of the country, to let the progress of the Agricultural Emporium be known, so that more may benefit by it.

## CAUTION.

We noticed in some of the papers, a reconmendation to put salt in bins of wheat when damp, and as there is much damp wheat this year snme might be apt to try it. If you do so you will injure you wheat; it will not grind so well, and the flour will be inferior and it will well, worth so much in the market. We have frequently threshed damp grain, and the best frequently threshed damp grain, and the best
way to keep it that we have found, is to mix the chaff with it.

## TO OUR READERS.

The great drawback to a publisher of an gricultural periodical, is the great lack of correspondence. General newspapers have abundance and to spare. Why is this ? surely not because political interesis are superior to gricultural. Reader, you can materially aid agreditor by giving him a bit of your practical an edtor low do not begin by using the experienc. Now dite in atyle excuse that you cann wid excuse for for a journal. This is not a valid excuse, for if you will send is the facts we will give it the style. There is not a man living who cannot instruct some one in some one thing, so you may become public benefactors and impart解 valu will respond to our call and We trust begin to feed the hungry, for all growers
Application in writing immediately ttended to. Letters should contain stamp for reply, and should state particulars of for reply, anied, and about the price they animals eqcure for, as stock can be had at wish pos can supply from several of al prices, the bething about the different droves and something can procure from others what we
herds, and can may lack in our own stock.

Firvice-Dried Hax. - Alderman Mechi rites to the London "Times" that he shall writes to arange to make his hay by furnace hereafter arrange to mons consists of a coke furheat. Ine a fan by which the heat is drivin through a small chamber filled with grass. In fifteen minutes it is converted to hay, In fifteen ming greener than can be made by sweeter and greener
sun-drying. It works in all weathers, and dries grain, corn, and roots, as well.
some way. He said he was aware of the great
benefit to be attained by such an under- $\begin{gathered}\text { That it is a good thing to grow } \\ \text { ing-not jump into it. } \\ \text { That it is a good thing to keep an eye out }\end{gathered}$ taking, that the whole country must be benefitted by it, and was satisfied that the enter-

That it is a good thing to grow into farm-

That it is a good thing to klad and bad.
prise was deserving of public or what we had already done and what we were attempting to do- We explained to him the loss we had to sustain by having our land and timber taken from us by the acts of the government, without remuneration. We explained to him the position of agricultural literature in the Dominion, the postage law, on the charges made on importing of stock fo breeding pnrposes, and on the charges made for the transmission of seeds by post. He directed his secretary to write in regard to it, and ordered ten copies of our paper to be sent to his department. We hope by the next issue to give further reports of results.

WHAT AN OLD, EXPERIENCED FAR WHAT MER ONCE TOLD US.

- That the success of farming is in experi ence. to ask a man's advice is not stooping That often of much benefit.
That to keep a place for everything, and everything in its place, saves many a step, every is pretty sure to lead to good tools, and
and keep them in order.
Tnat kindness to stock, like good shelter is a saving of fodder.
That to fight weeds is to favor grain, and do justice to your neighbor
That in making homeagreeable, you keep Har boys out of the city.

FARMER'S ADVOCATE

## CARTER'S DITCHING MACHINE.

The following is from the St. Thoma Home Journal" of the 6th August, 1869. An exhibition of this justly celebrated Ditcher was held this week upon the farm of Andrew Murray, Esq., Malahide near Aylmer, and its capability to perform the expensive and laborious, but truly proftable tested igging ditches for drainage fuly Mr. Carter has been for some succeeded in his invention, and has at last succeeded. producing a machine that will work admor ably well. At the trial it started atretch of with four horses atttached upon, at about halfground about thirty in one hour and a half nicely constructed ditch was finished to an a nicely constructed ditch three feet. The verand being soft and wet, it was expected ground the macnine might clog, but such was not the case. The mud was thrown out as not the case : had been dry soil, and the readily as if it had been good style. About nachine cleandred of the leading farmers of the vicinity were present, and expressed them selves as satisfied with the work performed. Not. one but pronounced it a success, and all expressed their gratification that a machine had at last been invented by means of which cheap ditching may be obtained. All were satisfied that the day of fifty cents per rod was over. A great deal of drainage of a very necessary kind has hitherto been omitted altogether, or indefinitely postponed, because of the expense, and on account of the cime raquired. But now the matter will be cheerfully and profitably attended to, and in ex pect soon to see the ditcher brought plough general use as the reaper, thresher or plough

## ABOUT BUTTER

 The oldest mention onf bitter (andotus, who say" the Scythians "stir the milk of their maares, and separate that which tises to the surface, as they consider it more delicioas than than that which remains below it.'- This, perhaps, goes ther than cream, but Hippocrates, who wrote 40 , years before Cris, writes of cream that when it is wiolently agitated, "the fat part, which is lisht rises to the surface, and becomes what is calied butter. The heavy and ihick part, which remain below, is kneaded and dried, and is known by the name of hippace. The whey or serum remain in the middle." Here we have butter and chetse satisfactorily produced at least two thousan years ago.But it does not appear from Hippucrates, nor indeed, from any of the anci nt writers who men tion it, that buter was ever used as atreck plysian ordinary food. That leainst Gieck presicia peaks of its emomiecicine Strabo ways that the externany as used butter instead of oil ; and Elian mentions that the East Indians anointed th wounds of their elephants with butter. Galen writes, that "in cold counties which do lor pro duce oil, butter is used in baths. Pliny reconmends it to be rubbed over caile mouth. Plu teething, and niso tells of a Spartan lady who smelled strong!y orch tells of a spartan sutter, by which it seems to have been used a a perfume or ointment. It is never mentioned by any Greek or
The people of Germany appear to have known
The people ob Germany a parly period, though the use of butter at a very In that cold re climate, both butter and cheese could readily be made and preserved, while in Italy, Spain, and other por-
largely produced. As r substitute, the people of those countries have always been accustomed and for the table
In the South of France, butter is sold in the apothecaries' shops for medical purposes and one of the grievances recounted by travelers in Spain is that they ran seldom meet with butter. In warm countries and any length of time, acient noions possessed; was in an $i$ by state and aimos: liquid. The Arabs are repuled to be the greatest consumers of butter it the world. A cupful of meted butter is an ordinary murning drink amoung all classes Burckhardt, the Arabian traveler, says that me appeti'e for it is univereal, and the poorest persons spend half their daily income moal. They hey may have butter at every meas. The make itexclosiver fations use that of camels, goats, wher animals-Ex.

## HORTICULTURAL DEPARTMENT

The commencement of this month is the season to plant strawberrics. We have already in nur columus given a detailed'account of the " modus operand,", -and so much is said about it on every liand, that no oue need look far for information on that head. We will only say that renerous cultivation with this, as with every other fruit, will repay the planter by both extra quality and quantity. If we mistake not, this season will have pointed to the necessity of draining in a way that none will overlook.-With the strawberry drainage is esperially neeessary, nnd we are inclined to believe that the labor saved in weeding, on well drained patches, will pay for all the outlay,

Gathering together what information we can from growers of this most popular fruit, we find that though varieties are almost innumer able, yet the choice lays with a few, and some of them, comparatively speaking, old varieties. Triomphe de Gand, an old standard European variety, still holds its position; large in size fine flavor, good color, are qualities which recommend it to every one, and all that can be said against it scemingly, is, that it is not ha rood a bearer as the Wison. Still it wil average as many large berries to the plant as either the Wilson or any other variety that we know of, and is generally free from the number of small ones some kinds possess.
Dr. Nicaise, another European variety whic made a great noise a year or two ago, seems th ave no quality to reculturist, another large and handsome berry, splendid rrower, and ely productive; it forfeits its apparent claim to uinlimited praise, by being of poor, some say, wretched flavor, and too soft to carry.
Napoleon II-by report an emperor indeed among strawberries--grown alongside of one hundred of the best kinds America can produce, untrips the whole of them.-Splendid color, firm tlesh, fruit borne well up from the ground, and of the largest size. It bids fair to become a most popular berry

Emperor Maximilian or Mexican Everbear ing,-the latest humbug in the fruit way which has been attempted to be foisted upon us, has been shorn of its fine name and figures
now as the common Alpine, much to the chagrin, very likely, of some who were tempted to pay a high price for it under its high sounding title.
La Constante.-One grower of this variety, we see by an exchange, complains bitterly of the fickleness of this variety, which should not be the case if there is anything in a name. No variety, he says, can have had its whins and humors more consalted than this, and $y$ yt a bed planted upon good soil, cared for 1 of way and giving every the trouble, yielded of making a fair return or the at last a few deformed
Wilson's Albany - More largely cultivated than any other sort ; principally on account of its great productiveness.

## GRU̇MBLERS.

It has been often remarked and dilated It en, $n$ matter of what ne tionality) are the most grumbling and dis. contented beings of any occupation known and are never contented with the weather or the crops. It is either too hot or to cold, too wet or too dry, or too much wind ; in fact it would appear that if they controlled the weather themselves, and could cause sun shine to be in one fie!d where they though it required, and rain at the same time in the adjoining one, that this would not suffice, and would still be meeting some imaginary trouble half way, portraying things that are going to happen, and it would seem that orething would be found to growl at. To prove how ill-grounded and utterly fallacious muny of these arguments are, we will endeavour to point out a few, and see how far their predictions have been verified this season. In the winter, when we had such continual haws, loud were the complaints that the wheat would be killed by these sudden changes and the intense frost, but time has shown this to be quite a mistake. Perhaps never in Canadian annals, was there such a universally heavy crop as the present is. Another one was, there is too much wet and cold, there will be no grain, it will be all lodged, get the rus in it, in fact be utterly destroyed, and many other objections were des Now was the prophesy as to the rain and cold supported their calculations? We say emphaticaliy, no, but on the contrary it has been in every way beneficial; it has demonstrated as a fact, that we get we get far too much intense heat and drouth in Canada, for any of our grain crops to mature properly, and it is to this fact the $t$ our samples always appear so shrunk and shrivelled when compared to those grown in a moister climate. But this year, from what we have seen, we think Canada can compete favorably with any country in point of plump ness and yield. True, the rain has cause crops to lodge and get tangled in certain exceptional places, and it may be that small proportion of hay, here and there

## FARMER'S ADVOCATE.

is not so well saved as might 'be desired. But thesse are as a myth when compared with the advantages obtained. We are not going to deny but what the heavy rains during harvest has been the means of considerable anxiety and extra work to our friends, but it is hut right at times they should have a little extra trouble in securing the harvest, as it will enlighten them as to the difficulty experienced by their brethren in countries of a moist and humid nature But to counter-balance the rain, we ask, have we not much to be thankful for on this 'score? and we assert beyond fear of contradiction, that could we alivars get a showery season like this one, we should have no com plaints of those pests, the midge and the weevil; these ravages would be numbered as a thing of the past. Again, have we not a super-abundance of potatoes, turnips, and vegetable productions generally, as another set off to any little extra trauble or anxiety the wet has caused. There will be far more food for man and beast than what there was last year; yes, some may sav, but the prices willbe lower ; true, hut you will loose nothing as you have treble the quantity to dispose of, on the average, compared with last season. We have had the opposite of the two extremes of weather, the previnus season it was the extreme of heat and dry, this one it is cool and wet, and we ask which is the most desirable?

Finally, we say. never dispair; remember agriculture leads the world; everything lisps and hearkens to the voice of harvest; if it should be favorable it means cheap food and plenty of it, and consequently it gives an impetus to trade and commerce. We do well to do our best and never mistrust an all wise Providence, who has said that the seed time and harvest shall nnt fail. Let us endeavor as far as we can, individually, to do away with this stigma that is attached to us, that of incessant grumbling at the weatber and the prospects. Let us do our best, and put in our crops in good season and. Depend upon it we cannot err then. We congratuupon it whe the have, late all upon the bountiful crops they have, and our best wishes are offored for a continuance of them.

## CAUTION AND REMARKS.

Beware of the Mexican Everbearing Strawberry advertisement or peddlers! Keep your money and do not waste your energies on such.

Patentees of new inventions generally make the cities a centre, and soon have their wares scattered. We have recently seen a patent churn and a patent vashing marhine, that will he of no use to farmers, but some may be silly enough to purchase the patent rights and will regret it. A patent force pump has been shown to us, and we believe
it to be the best kind of pump invented. We would prefer it to any we have seen. We have been shown a patent self brake for wagons; we think it worse than useless. A new patent gate was shown here last month and we prefer it to any patent gate yet shown to us.
Carter's Ditching Machine, we hope and believe, will become a useful implement. Will report on its working when we again see it tried. You may see it on the Exhibition ground. We anticipate a good, useful implement in Sells' rake and Self-loader; it will be on the Exhibition ground, look at it and judge for yourselves.
Gee. Gray, our celebrated plough maker, will have on the ground a double mouldboard plough, having friction wheels instead of land sides. It works well ; look at it when at the Exhibition.
We shall have the largest collection of tested grain ever exhibited in Canada by one person; look at it. We deem it of more importance than exhibiting our stock, and shall not exhibit an animal of any kind this year. We may give you our reasons in a future number. We were not granted the space of 20 feet by 10 feet to exhibit our grain, and therefore must confine ourselves to smaller space
We shall be fully occupied during the Exhibition week, and if you have business with us perhaps ynu had better write than be disappointed and think that we are rude or negligent, at the time that we are are fully engaged.

## PROBABILITIES

Are that the wheat crop this year is a most luxurious one, consequently we may expect the price to be lower.
Also that the barley crop is first rate, and eport says the price for this wil be good, owing to its scarcity.
Oats are all that can be desired, and the price will be remunerative.
Peas plenty, consequently hog fool will be abundant.
Butter, not too much of it, so the price
rules high. Root crops prolic, which are rotting hadly excepting potat
in some places.
to be better than anticipated.
Hops, not to muchoof them, but they appear to be worth nothing.
Geese, scarce, in consequence of too much
wet in the breeding seasnn.
Hay plentiful, and of good quality generally. Summary, that the prospects of the far mer was never more bright. and the crops upon the whole were never excelled, and the result will be that they will have a gondly balance to the credit of their ind vidual exchequers.
for the "Farmer's Advocate," will send us their subscriptions without delay, as we have a large and troublesome harvest to secure in this respect.

## ROIN'TS OF AN AYRSHIIRE COW.

[Several years since the Ayrshire Agricultural Association, established a scale of points for Ayrshire cows, which was published under quently, the following ingenious.versification of the points alluded to, appeared in a Scottish paper :]

## ould you <br> 

 Hend to the lessons you'l hear from me now. Her nose should be fine between muzzle and eyes;Her eyes full and lively; forehead ample and wide Hor eyes full and lively; forehead ample and wie,
Iorns wide, looking up, and curved inwards besidé ; Hornd wide, look be a flie,tapering wedge, And free from loose skin on the undermost edge; Long and straight upper i ne, without hollow or mane; Let her briaket be light, nor resemble a a crop ;
Her fore-part recede like the laeh of a whip, Her fore-part recede like the lash of a whip, Knd strongly resembie the bow of a ship; , Especially where back, neck and she ribs of a barge Her ribs short and arched, like the ribs of a barge jarge;
Body dcep at the flanki and the milk voins full and ang ang
Pelvis long broad and straight, and in some measure flat; Pelvis long, broad and straight, and in some measure
Iook-lones wide apart, and not bearing much fat Hook-bones wid apart, and neither rounded nor flat
Her thighs deep and brod,
Her tuil long and fine, and joined square with her back, Her tuil long and fine, and joined square with her
Hilk veasels capacions, and forward extending, Milk resels capacious, and forward extending,
The hinder part broad, and to body fast pendfng; The sole of her udder should just for a plane, And all the foar teats equal two inches or three
They should hang to the earth perpendioularly' Their distance apart, when they're viewed from
Will inelude about half of the udder ounll find
have at And, when viewed from the side, they will have As much of the udder as 'tween them is penned; As legs should he ohhort, and the bones fine and olean, The noints of the latter beeng antion of alr, Skin soft and elastic as the cushions or air,
And covered all oer with hort woolly hair
and The colors preferred are confined to a few-
Either brown and white chequered, or all brown will do The weight of the animal leaving the staili,

## TO THE PUBLIC.

We claim to have brought forward the most beneficial plan for the advancement of our general prosperity, as all must know that fresher seeds are required in each part of the Dominion, and there should be a place for importing, testing and disseminating them Pater and origina Patents are fortors of new machinery do, ward and establish an Agricultural Emporium and an Agricultuial Paper are things that should not be overlooked by the Legislature of our country; and if the present monies for which we are now aiding an establishment for such used in aidian the mode now for such a purpose, tiane, would it not adend to the advancement of our general prosperity? You have seen the high commendations our undertaking has brought forward from really practical men, such as and counsellors and agricultural for the they know. what is really requid unceasing. country's good. We have greatest obstacles ly for years against the greatecuragement even where the greate return our thanks might be expected. friends we have found to the num the Cominion, and hope each throughout us in b,uilding up the Emporium, eithor by obtaining subscribers for our paper or introducing the plans to others.

## HYBRIDIZING WHEATS.

The process of hybridizing plants consists in bringing the pollen contained in the anthers of one flower in contact with the stig ma, or top of the pistil of annther flower to be impregnated. This process is used whether purpose of originating new variesies, , is still of fruits or vegetables or gra mens of hybridization in its infancy. By means or hybrizo or parent the qualities of each of the to the offspring, ruit or grain are it it may be a superior variety to either of the parent varieties.
But little has yet been accomplished in hybridizing wheat by this artificial process of hybridizing wheat by intricacy of the experifecundation, and the intricacy or it must be ment and the nicety wiess is likely to deter exect persons from undertaking it. Still as by this process it is possible to secure new varieties of wheat, which ripen earlier, and are more hardy and productive than the present ones, it is important that it should present ones, rally understood. In these remarks, hastily and a little crudely brought together we will endeavor, by means of a few engravings to illustrate as clearly as we can the method of äccomplishing it. Perhaps as much difficulty lies in the way of securing the proper conditions of the parent varieties, necessary to secure success, as in skilful excution of the work. We think more. The two varieties with which it is proposed to make the experiment must have advanced to the same degree of growth at the same time. Impregnation cannot be effected unless the flower of each expand or bloom at the same time. When this is the case with the parent heads of wheat, they being male and female, the time for the experiment is just before the anthers project out of the glumes., Select ir possible, a warmstar whay, and operate in the middle of the day, which seems to be the time most likely to met with succes. jud interfere should occur, jes, it is well to have several with the proces, aring different times. These will give pening at difereumer of chances if some he ope fail through bad weather. The anther should fain anen out at the very time that it must be taken out at the very time that this it bursta, discharges the pollen and fecundates the pistil. The operator should be provided with a magnifying glass, and a very sharp and slender puir of scissors, with which to clip out the anthers without bursting them. It is a simple but delicate operation. The experimentor should carefully observe the moment when wheat first comes into bloom to make his experiments. If the first attempt be unsuccessful he has opportunities to try again.
Experiments made in hybridizing plants have by no means confirmed the hybrid origin of forms apparently intermediat? between other species,
and which were once regarded as probable hybrids produced in a state of nature. The interference of man is usually necessary to effect an intermixture, and even then, t.i.gugh experimen has proved it pussible, is is by no means of easy accomplishment. The predilection of the plant for pollen of the same kind appears to be very strong. If pollen both of the same and. or, no fruit is the same as if only its own pollen had been there. The hybridizer must therefore be very careful to cut away the slamens at the propet moment, and be equally careful that no pollon escapes from them, and that he deposits some a the pollen with which he wishes to impregnale

## FARMER'S ADVOCATE.

With all the precautions he can take his operations will often result in failure.


FIG. 1.
Engraving No, 1 correctly represents the interior view of a glume of wheat, the inner surface of the chaff or husk, and the interior condition of as it appears when mangified. 5 is the ovule, or the young wheat grain just forming. 4 represents the pistils, or female poriion of the flower. 1,2, 3 , the anthers or male portions of the flower.
These contain the pollen which impregnates the These contain the pollen which impregnates the when the a maks be taken out of the flower in order , succeed in the ex put of the fiower in ormmediately removed they burst, discharge their pollen, and resemble that marked 7. It is then too late. Wiih the long tharp scissors the operator opens the glume as in Engraving Fig. 2 , gently, and if the young plan appears as has been represented, it is ready to b


FIG. 2.
perated on. He cuts off the anthers at the places marked I, 2, and 3, takes them out carefully so as not to burst them. When they are removed e produces the anthers from the whe plant partly bursted as in No. 7, in Engraving 1, and crapes off the pollen with a finely pointed knich he anthers have been remuved. After depositing the pollen from four or five of the anthers upo he pistils, he closes up the glumes or chaff care-
or of the "Rxperimental Farm Journal," is practically experimenling in Hybridizing. the accompanying illustrations. His paper is edited in Chambersburg, Pa., and is only $\$ 1$ per annum.

Wheat Blossoms ind the Wheat Fly.-Mr. T. Ross, of Bachilton, Perth, says in a recent letter, that the want of grain in the ears of wheatind blowing a way the blossoms. "Whenver the blossom appears inside the chaff or husk, the sooner it comes off the better, whether blown by high winds or therwise it is when
fully, to prevent other pollen from blowing int it, and to protect it from accident or injury. It is ber the pa the by a of the chats togethen at the top, by a silk hread, of succes there should be a number of plants grown, so that several may bloom at the same time. They should be planted in rows, near together, so as to be convenient for the experiments.

When the plants, upon which hybridization has been attempted ripen, the seed should be gathered carefully, and sown where there is no other wheat near, and carefully observed. If it prove hardy and earty, and partakes of the qual ities of both parensls noted, until it be fully de again, and the rermined whether it be a hybrid or not. But if it presents no advantages over either of the parents it is no true hybrid and should be discontinued. It is thought that hybrids partake more largely of the qualities of the male plant than of the te male. In hybridizing the pollen should be taken from the best and hardiest varieties, as it is more likely to produce a valuable hybrid. The ques tion of continued artal is one having important some will Most provale while others will grow better deteriore and last a long time It is to the advan. tage of wheat growers to have a variety of hybrids, and select from them those which experience proves to be the best in point of quality, productiveness, hardiness and earliness. The best white and amber wheats grown in the country are lieved to be accidental hybrids, and

In conclum In conclusion I may ad not discouraged by repeated failures, and is willing to try again year peater year.
after

This is especially essential in hybridizing wheats. Some seasons unpropitious weather causes failures. Again after the experiment has been performed under favorable circumstances, a ong time is required to prove the work, to determine if the results are real hybrids. Wheiher they sought. he blossom rem long that all the it is invariably in quiet dull weather that the wheat fly (one of the wheat farmers' grentest foes) is best able to deposit its eggs, to hatch its young and bring forth for the destruction of future crops whereas in the critical blooming season, if we have a blow of wind, we escape such a resul comparatively.

## FARMER'S ADVOCATE.

## PREPARING LAND FOR WHEAT.

In growing wheat there are few things of more importance than a thorough preparation of the ground for the seed. Not only should it be well plowen, wheat cnltivator or gang with the harrow and wheat cortivator or ased plow. The plow or cultivator must fe use broken up early in the season, when the land was rather wet, may be dried down hard, and need plowing to again work up fine and mellow. But when tand has been recently plowed, and is not bיlked, the harrow and cultivator will put it in fine cordition.
There is great acivántage in the frequent use of a good harrow. It works land down into that fine, mellow, rather compact conit is the hat, while it is not in the least har , it better very best state for won the loose, spongy condition, sometimes produced by too much plowing. When a produred sward is broken up after dry weather has set in, in the summer, harrowed once or twice, and then cross plowed in August, the sod not being thoroughly rotted, willin piece of various sizes made up of a mass of dry roots and steins, be mixed through the soil, keeping it in a light huffy condition, not 炎asily worked down, and freezing out. Dry stabliable to injury from rreezing out. Dry stab lles also often plow up loose and best remedy liable to the samuent harrowing. A good 48 tooth harrow will work down such land into a proper state better than anything else. Then if after laying a week or two, the land needs more working.put on a good wheel cultivator and work it ap four or five inches deep, when another theroygh rarro fine condition. A good roffect is not equal to down such land, but the effect it leaves the that produred by the harrow. fine on top, but soil looking in as fine and cood condition al through, for the fine roots to penetrate, as the harrow.
When any sward is broken up deep enough to furnish a good seed bed in the soil turned up there is seldom any advantage in bringing the sod back to the surface. A A working with harrow and con on the sod than ly makes a better preparationing. This is es can be secured the case when clover is plowed rather peeially the case ward is hroken up after harvest Then, as the sod will not better at the bottom of furrow. It is also of some henefit there, holding the soil well ingether, while it prevents baking down on the subsoir; and, wom plowed in the proper direction, leaves room the work off.
When a summer fallow is broken up early, and the sod is so rotten that it can befference. down as fine, there will be less difference is Then cross plowing once or twice-twice the best-with suncondition. Still, in such cases, and in good rowing the better, for there is the more best condition for wheat. With shallow plowing, say four or five inches deep, this course is often the best. But when broken up from seven to ten inches deep, as nearly ing generwheat land should be, once plowing is gener ally the best.
August is the best time to manure for wheat After land is brought into fair condition, so a good cultivation and harrowing winm frome all right for the seed, then apply from twe acre. to fifteen loads of wel rotted manury fine-it This manure must be bo thoroughly broken to pieces and distributed that none will impede the cultivator or harrow. When well spread, it is no
only more benefit to the crop, but saves time as it costs more labor to be frequently sto ping to clear a clogged cultivator or harrow and spread the bunches thus drawn together than to thoroughly do the work in the firs Manu hen appli wh rotted, does the most good it must be pin this way. If not well rotted be well worked in with the harrow and culti vator. If partly rotted and plowed under four or five inches deep, with a narrow furrow turning less ta the bottom, and leaving more between the furrows, it will do very well. Then a large portion of the menure is near the surface, where it will soon benefit the young wheat. A leading object in surface manuring is to give the young plant a good tart, secur a the put whent in the best conin the fall, and thus put whear in he best ond finally make a good crop. It is also a great help in securing a good se ${ }^{\text {eding to clover with }}$ the wheat. Coarse manure, plowed under a deep furrow, can be of little henefit in this way, and is of doihtful advantage at the best. If lightly plowed under, more or less will work out and jnterfere with subsequent cultivation, and may serionsly obstruct the working of the drin. A as not to intertere with the pared and apod wheatill - Country Gent

## PROSPECTIVE POVERTY.

The one great question with Canadian far mers is, or should be, how to retain the feftility of the soil? The rapid decrease in the produc ion of staple crops in the United Slates, and ven in sections of our own country, teach us the ecessity for staying the destructive inroads tha are being made on the cropping capacity of our lands. A radical reformation must be made in our system of husbandry. Under the presen plan, the richest soil will eventually run out. We can trace our present over cropping to the original wealth of our soil. Farmers seem to think that their is no limit to its endurance, and his has fostered a most improvident system of culture, and made a most fearful reduction in the annual yield. If we do not change this, it will ell upon our material prosperity, and the barrens of Virginia and Georgia, will find their duplicate in the Dominion of Canada. Tobacco is not alone the only crop that possesses power blast the fertility of the soil, and unless we intro duce, to certain extent, the elementary principles ot European farming, we will find our average yield growing "beautifully less." The rotation system is a powerful adjunct in preserving the fertility of the soil. Its value is proved in is adoption by those nations centuries. Is it wisdom sources of their landon until the productive for and a strasted, and a gling clump of wheat here and there over our gho clamp folly? Prefields, stand as monume we must check the vention is better than cure. Ware, and realize the wasteful extravaga portion of the el ments from the soil by the growing crops. It is well enough to sneer at the system of artificial that, theory ar molied, the or no theory, umbested. The motto of too many is " let heon exhaustcd. The itself," but we contend that a judicious and economica' use of man-
are, not only preserves the fertility of the soil, but pays in immediate returns. How few farmers have proper conveniences for preserving the fertilizing elements of barnyard manure Large heaps are allowed to mingle their most ${ }^{t}$ valuable elements with the waters of some storm born stream, and their value is lost. Huge piles of straw, instead of being used in littering cattle and applied in the form of rich manure, are re moved out of the way by the match and a sma mover 10 how patch of rank growh, is all here io show for what might have produced bushels. There mus be an increased breadth in roots and grass, as these will promote the house-feeding of stock in winter, which apart from the increased value of stock, will cause the saving of greater percentage of manure in its most valuable form. We will not elaborate on this idea at present, although its importance cannot be overrated. As a people depending on agriculture, everything that has a bearing on the development of our resources and their unimpaired preservation, is of vital importance. We simply give it as our opinion that a change is necessary, and believe that all who give the subject serious consideration, will agree with us.

## DRAINAGE

No settler can, unassisted, drain his land. There must be a general system, adopted by the ountry, for a universal drainage by providis. charge all the water which may be received from the side ditchers constructed by the settlers. Here s a case in point. The Township of Sand wich, East, dug a very good ditch or carrying of the waters or he Grand Marais, whe Westerly limit as far as the Graval radining municipality of West Sandwich, neglected, or retused to continue he ditch, so that the East Sandwich ditch is, tor the present, absolutely useless.
In the townships, the making of drains is enrusted to men, very deserving ones, no doybt, yet perfectly ignorant as to the system required. For instance, Conncillors will let a ditch specifying that it must be two feet deep and four tee wide at top; this without refer qualities of he ground; the dich, theres not run at qua hill
all.

The width of a ditch must be limited by its bottom, not its top width. This latter must be regulated by the slopes given to the will finally take, naturally, is one foot and a half horizontal to each foot of perpendicular depth; so that a ditch four feet wide at bottom, main drain should never be less) and six feet deep would require twenty-two feet for top width. The bottom of the ditches should be on an even grade towards their
outlets of not less than four feet to the mile. outlets, of not less the country are made with Half he dost perpendicular ; the consequence is that the action of frost and water cause them to cave in and render them practically useless. Al these things should be done under efficientsuper intendence. The motto in such cases is "M
Methon, METHOD!"-The Dominion.

A Missouria? informed e traveler, who inquired About his corn, that each stalk had rine ears on it, and was fifteen feet high. "Thats illinois to nurs," replied the traveler. "up pine ears to wh re I came from, we alw shelted corn to each each stalk, and a peck or raise any field beans rassel; ". "Why?" "Because the corn grew of fast that it always pulled the beans up."

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FARMER'S ADVOCATE.

## REAPING MACHINES.

Among the new machines being exhibite t the Royal AgriculturalSociety of England at Manchester, is a new reversible combine reaping and mowing machine, invented and manufactured by Harkes of the right This machine will cut either to the rorming left, according as the crop lies, performing its work in a most beautif. The ithas a double toothed knife. The Beverley Wagon Co. has a two horse double selfich a ing swatle delivering desired direction, and crop can be cut in any desican American performs its work well. by Cullman \& Mil ing Machine is invented by er, and exh This is adjustable to any quality of Berwick. finger can be raised or lowered of land; the if one wheel gets into a furrow, or altered, thrown over the machine without being put out of gear. This mower is pro vided with a seat capable of being regulated, and the seat forms a cover for the machine. A- similar implement is also constructed as a combined reaper and mower. The reaper trials at Manchester, have not been altogether satisfactory. and public opinion does not, so far, point to any award in favor of any par ticular exhibitor; in fact, more especialy during the earlier part of the means well car ried out. The implement stewards appear to be utterly helpless, and the crowd did just as they plages -
and when they liked.-Mark Lane Express.
the result of my experience in ${ }^{s}$ underdraining, in regard to yield of grain. The ordinary yield of whent on my farm was formerly from fifteen to seventeen bushels per cre, expect two hundred and fifty bushels of wheat. The first year after I commenced draining I harvested from sixteen acres four hundred bushels of wheat, being an increase of one hundred and fifty bushels on former crops. The vasue of this nmount of grain more than exceeded the total cost of draining the field, and, as we have reason to expect better crooss from the said fipld in fulure than it formerly yielded, the profit resulting from draining this field must be immense It is a well known fact that many fipls have suffered to great extent lom or the quantity of rain that has fallen dung the present season. Mv peas on a field which was all underdrase months ago, with the exception of one smal corner, containif peas on this half acre are few that remain are spoiled by wet, and the few that remain are of a pale, yellow, sickly cols, and in the spring return as while thosfy and well loaded, not a sickly ingly thrifty and well low, Now, with rege apperarability of underdrains, all I shal say is that there is no fear of them wearing out in a man's lifetime, but they seem to ge better year after vear ; and the satisfaction obtained from walking on dry ground, in sping and fall, is certainly very great.

## HINTS FOR SEPTEMBER

This month is the time to prepare ground intended for planting. Drain by all means where it is intended to plant fruit trees; and if it can be managed, subsoil also, thus put ting your ground into the best possible con dition to withstand either vissisitudes of weather, extreme drought, or excessive wet. Whenever the fall rains arrive, say early in October, plant. Do not wait for the leaves to fall, but cut away the shoots that bear hem, woods, leanes and all-the trees should. be severely pruined at any rate. Sow seeds of all the different kinds of perennials, if not done last month. Sown now, they will flower next season.
Whenever Dutch bulbs can be obtained, they should be planted at once. Well rotted cow manure, dug with a soil neither too dry or too wet, is found to ine in especially whe have san a pat about the the surface, and ping
Cuttings of the soft, wooded, budding lants, intended for in-doors in winter, can plaw be struck by putting them into a bed of now sarp soil, (river sand is the best sharp sath a sash or hand glass, and placed in a shady place, or the glass white washed

ALEX. PUNTEY.
"Make way people! I'm ex ceedingly cramp ed for space! "
This was the This was the
exclamation of a poor worm, that had a whole fiel to himself, anc acres to spare; impression to go abroad, that he was ten times as large as he seemare many people are many perld who in fustl ike this poor worm.

Extract from P. Lawson's account of Cocks. foot Grass. ${ }^{\prime}$ Mr'. Lawson, Seedman of Scotland
Underdraing. $-~$
$M r$ John WilMr. John Sol
liams, of South wold, contributes his experience in underdraining as followe. - Afte describing the character of the soil -a stiff clay impervious water-and his grave difficultiesin man aging it, he goes on to say:
"There is but one remedy ; but thankfortune one remedy was suff cient, and that was to get rid of
the surplus water the surplus water which seemed to be the cause of so many evis.
derdraining; laid upwards of three, quarters of a mile of tile the first season at a venture. They were principally two and a half inch tile, but we also laid few of the two inch and a few four inch. Ine result, as witnessed at the harverderain. threshing the ground, sanguine ed ground, so far exceeded my most sanged the expectations that have since cont intend to drains intil the whole farm is dealt with in a similar manner. The largest drain at pres. ent in operation on my farm consists of two six inch tiles, placed side by side, with a inch above them. I expect. as soon as pos six anch tiles, which will be the outlet of al the others. The following are examples of


## LADIES' SEMINARY

This city is now becoming celebrated for its
colleges. The above engraving represents the latest erection, and a handsome edifice it is. It is for the education of ladies. Besides this there is the Huron College for ministers, the Col'egiate Institute for other professions, and the Com mercial Culloge for geteral business

In one of the Germin States, there are bee hives on average on every square the Thi more than abive for every ten acres. Suppose we had a hive to ten acres on our farms-would wo care if white sugar is 12 cents a pound?
to the Royal Agl. Society of Scotland:
to the Royal Agl. Societyoris Glomerata-
"Cooksfoot Grass-Dactyrd Grass. Sheep Called in America, Orchard Grass. Sheep markably where shaded by trees

## ANSWER TU INQUIRIES

L. B.-The Franconian Raspberry we think will suit you-later than the Blagckberries. Mr. G. Leslie of Toronto, has a very fine lot The plants are very vigorous and very prolific, yielding far more profit than strawber ries. They sell at 25 ets. per quart surpas rong, the new kinds of raspberries; ${ }^{\circ}$ and sing allan he spares no expense tolants, either this fal or in the spring, which you may prefer.
carled. It is rather apt to crinkle and lodge more than some varieties.

The American Amber Wheat or what is generally known as the midge proof, is yielding well. It is not entirely midge proof; we know. of no wheat that is. We have seen midge in it but have never seen a ciop of it much injured by the midge. Most persons in out vicinity having good, well cultivated clay lands, are rather dissoas, satisied preventing the full maturity of the berry lodged, preventing the full maturity of expense in ${ }^{t}$ harvesting. Tredwell in the same field sown at the same time, was all taken off with the reaping machine, but the machine had to be abandoned in taking off the midge proof. Many pieces we know of have been cut with the scythe pieces even having been abandoned; still the cradks, en, here is not such reason to on light, sana soils wink i dread the lodging, and on se Tredwell. We may often be prefered to the Tredwell. We believe there will be a larger breadth of Ameri can Amber and Tredwell wheats sown than of any other kinds. Tredwell is most suitable for clay soils, and American Amber for sandy soils. Defil's Wheat, known in many sections under the name of White Midge Proof, is short in the head and closely set; it is round, short and rlump in the grain. The straw is moderately stiff, and with us it has done we.! this year, much better than last. We deem it rather more liable better altacks of the midge; than the fore named to the are many that prefer it. This wheats. There and or quick growing land, and wheat requires early will yieid a large crop of if it matures early it will yield a large crop ap fine wheat; on late, cold lands it is aph midge. and to suffer much from attacks of the midge. This wheat deserves a trial in each section. some sections it is now preferred to the T redwell Wehave, at a very great expense, proceeded with our testing, importing, and disseminating of gord The results of thi

Weeks' Wheat is bearded; appears much like the Mediterranean, but stands well in the ground. The grain is white, plump, and large This wheat deserves extended trial. If anyone in Canada lias any to spare, please inform us al once.
California Wheat is very long in the head bald, much of it winter killed; badly attacked by midge, rust, and condemed.
Bouton White short in the head ;short, plump, white grain. Straw stands well. Eight days earlier than any other variety tested. Deserves further trial.

Sadonica-Good mottled grain, very fine and iff in straw. Stands well., rather long in head, and bald. Deserves furthar trial. head, ancaster Red Grain-Dark in color, stands winter well. Might be tried again. winter well. Might be tried again. Grain mest Saкonka.-Badly win
inferior. Condemned.
Berdensca from Russia.
Amber Wheat, bald, long in head. Good
rain. Deserves furthêr tria!.
Sala Red from Saxony, has along, bald head but very downy grain-Inferior. Condemned. Bohemean Bald Wheat badly rusted.-Condemned.

Australian winter killed.-Condemned. Four kinds of English White. Wheat, the finest samples sown, winter killed. Two kinds of Red Wheat, very fine samples, both winter killed.
The Kentncky Midge Proof-Moderate, but open head. Good grain. Deserves further tiial, although it has not stood the weather as well as some other varieties.
The wheats for this falls sowing will be the The wheats for this falls sowing wer, and the
Tredwell, Deihls, the American Amber, Mediterranean.
Each of these kinds are answering well. Some of them are prefered in some sections, and condemned in others, and neither should be totally andel as the moitable, as the epended on attacks of the midge, seasons and localities, and attacks of the midge, ary very much. We commend the rial of new zirds only in small quantities. Should any new ind answer well, it will soon increase, and the cost or loss cannot be much; and if you are careful in procuring a small quantity, you can easily ake away any impure seed or weed, which canot be so easily in a large field; and the ot be disseminated by us, will be the mall quantities dissemily selected. It is much purest and most carefuly oo be regretted that we are unable ada or the States, as clean and pure varieties as we should have, nor are our own as good as we wish to have them. We can but supply the best we have, and when we can find any better, we isseminate it We have spared neither time of issemy to endeavor to procure the best.
See next issue tor Spring grain.
P. S. Since writing the above we may add P. S. Since writing. the above we may add not yielded in this vicinity quite as well as annot yielded but in many Counties it stands the best. The Deihl has yielded largely in this vic. inity.

## AGRICULTURAL ITEMS

The only thing to increase the length of a colts The on to keep the roots perfectly clean, and frequently collob and plait it.
A correspondent of the countryman says, giving A correspoc a slice of salt pork each day for eight or an days before farrowing will prevent danger rom her eating her pigs.
Mr. Joseph Harris expresses the opinion that Mr. Joseph Harris expresses the opinion ordinary indigestion is the sou. ce that this is brought on complaints in ho-ses, and watering; by exposure, fatigue, by long journeys without food, in a storm, and then by over-feeding and neglecting to and then by fore leaving them for the night.
Information from the principal grain districts Information irom California indicates that the wheat crop, though large, is below the average yield per acre. considerable portion of it, either through thon the or rust, will not pay to hars of any previous year crop is greatly in excess or anda region.
except
To make a rat and mouse-proof house Mr. J. M. Hartwell, of Colebrook, N. H, tells the New York Farmers' Club to ake some house is up and bricks, and after the frame, of the house or two boarded and the partitions set, laty stud, both on thicknesses of bricker foors. Then lath and plaster to the floors, and put on a narrow mop or washboard, not so high as to have re upper mice come above the brick As the rats and mice gnaw in, just will make the house rat and bricks thus laid an expense of $\mathbf{\$ 5}$.

It has large coarse grain, a dolerably good crop, machers inferior farming and on low, wet and it may answer better than fuced, it answered a good purpose ana should rot yet be totally dis-

## FARMER'S ADVOCATE

## VATUE OF WEIEY FOR COWS.

Mr. Willard reports in the Utica Herald, th experiments of Mr. Hamlin, a dailyman of hat region, who has been in the habit of feed ng his cows whey, and believes it of conside able value in increasing the quantity and mproving the quality of mails at a feeding The patrons of his factory have been somewhat issatiafied with this whey feeding, believing that the quantity of milk was increased in about the same proportion that quality fell off thus making it decidedly an unfair partner ship.
So many hints were given and so much was said about the matter, that it was determine on the part of Mr. Hamlin, to have the mate ested, and ilk bome so much depreciated quality of mhey as it was claimed, then whe feeding should be abandoned. He suggested therefore, that a committee of patrons meet a the factory, August 12th, and Hamlın's milk was kept separate froz that of the company's The milk of both parties was then tested hy the Hydrometer, and stood as follows: Hamlin's ninety-seven degrees, and the company's inety-three degrees., Alhough the insre ment showed Hampany's the committee we richer tisfied añd a further test was demanded
Two hundred pounds of milk from each of
the parties was then taken, and made up separtely into cheese, the milk of both being treated alike. The process of manufacture was as ollows

Milk set at 80 degrees-first scald 85 degrees, ood thirty minutes, then raịsed to 101 degrees stood three hours-company s cheese weighed $22!$ pounds, making two pounds of cheese in favor of whey fed cows. The cheeses were placed side by side in the cheese house, and are to be further noted during the process of uring
Experiments of this kind are interesting and valuable, and it is the only one on record where exact figures have been reached in
regard to the value of whey as a feed for milch cows. We examined the cheese with considerable interest, and have the promise from Mr . H. to report further as the process of curing shall have been completed--all of which we hope in due time to make public.

New Classification of Wheat.-A new classification of wheat' has just heen adopted y the Merchant s exchange, features are as follows:-
" All quotations made according to this classification are to be known as of bulk fall wheat in elevator, other quotations will be known as wheat in sacks; choice white to be bright, sound, dry, plump and well cleaned; pure white winter to weigh at least 62 to be sound, dry, well cleaned; pure white winter wheat to weigh at least 60 pounds per measured bushel; No. 2 white to be sound, dry ; white winter wheat, reasoriably cleaned, and to weigh not less than 59 pounds per measured bushel ; No. 1 red to be sound, well cleaned; dry red, or red and white mixed winter wheat, free from rye, to weigh at least 60 pounds per measured bushel ; No. 2 red, to include all sound, dry, reasonably cleaned red, or red and white mixed winter wheat, below No. 1 red, and weighing not less than 59 pounds per measured bushel ; No. 3 red, to include dry red, white, or mixed thin or bleached winter white, free from must, weighing not less than 57 pounds per
measured bushel; choice red to be bright,
sound, plump, dry and well cleaned red, o red and white mixed winter wheat, to weigh not less than 62 pounds per measured bush. Rejected-all damp, tough, either smutlion unsound wheat, of any weight, and all ght, trashy or d
3 in wheat

## zatiscellauctous.

## The Australian Wild Horse.

"The wild horse of Australin," says the Avo ca Mail, "will unquestionably at nodistant date, like the mustang of the South American pampas, plains of the interior On the South Australian border, in Victoria, where some few years ago wild horses were comparatively few in number large herds are now to be found. During period in search of pasture, and on some stations detract considerably from the value of the runs to the north-west. The neighborhood of the melee scrub at the present season appears to be a favorite resort for wild horses. Feeding on the plains in mobs of 15 to 30 mares, with colts at their feet. The sire, a stallion whose progeny are usually of one color, is most careful of his family on the slightest alarm leading his charge at ful speed ynder the shelter of the almost impenerrable steeds of the plains have been made of late, we are informet?, and of the colis broken and sent 10 the market, but from the cheapness of horse flesh all over the Colony, the speculation had not paid, Many hundreds have been shot at the variou stations, apparently withont reducing their number. Wild catile in the neighborhood of the melee scrub have also become a complete nui sapce. On the sheep stations beer of excellen quality is supplied all the year round as rations like the Buffalc of the North American plains and are said to be gradually increasing in num bers and spreading towards the far north. The most astonishing circumstance attached to these wild herds of cattle is, that notwithstanding on the stations near their haunts sheep and othe stock are dying very fast from the effects of the drought, these denizens of the plain appear in excellent health and as sleek as moles. A mos beautifnl sight it is to see a large mob of wild horses star on the pans, floating in the wind the speed of which they seem to equal, their tail sweeping the ground - sey present to the eye perfect embodiment of beauty and freedom.;

Coloring Fruit.-A correspondent of the Dixie Farmer writes:-Highly colored fruit i Juscious, certainly sells higher and more readily than fruit deficient in color. Then we ought to grow fruit highly colored. The locality of the orchard has much to do with it, agreeably to my observations. When a physician is called to a patient, pale, feeble, and debilitated, he prescribe iron in some form; so in highly colored truits iron must abound in the soil. Very deep red
clay underlies one ridge in the orchard ; under clay underlies one ridge in the orchard; under
another the clay was not so red, (the red in the clay is certainly imparted bv oxide of iron.) The fruit on this red clay is more highly colored than on the lighter.
Some ten years ago I applied anvil-dust, cin ders, etc., to the soil under certain apple trees ored fruit than formedy, the streaks as finei drawn as if penciled, witha uniform waxen appearance. This was an experiment at home, to
prove to myself the effect of iron on coluring prove to myself the effect of iron on coluring Now, if these views are correct, (and I believe
they are,) a deep red clay, heavily charged with
iron, is indispensable in growing highly colored fruit, or we must supply the iron at considerable cost and trouble, to furnish the coloring matter.

Destroying Stumps.-The Baltimore "Lead er suggests the following method for ge hole in th stumps
"We have heard of two methods of get ting rid of stumps, which, as they appear feasible and inexpensive, we hope some reader will try and report upon: Bore with fill the cavity thus made with sulphuric acid or with crude oil of petroleum. In the firs case, the acid becomes the destructive agent within a few months ; in the latter, when the stump becomes saturated with the oil it is fired, and will then burn out to the las particle, like a candle.'

ORIGIN OF PRAIRIES
We have always regarded Dr. Cooper's rainless theory of the origin of prairies as conclusive. As we go westward, no new forms of trees appear, while the number of those found farther westward rapidly di minishes. In the forests of the coasts, abou 120 kinds of trees appear ; 90 reach to the Mississippi, but only 8 or 10 struggle as fa as western Kansas. The desert sage, the cactus, salt lakes, and saline efflorences upo the soil begin to appear as the trees are lo is reaitude $99^{\circ}$ to $97^{\circ}$; till, when to three feet upon the plains. The forest fires upon the borders of the treeless tracks are themselves intensified by the dryness which is the cause of the total absence of trees a little farther to the west; and the border regions of oak openings in which they prevail, where the plains are dotted with clumps of trees, which rise not from the underwood, but from the grass, are the same character with the half-wooded plains of the back country of New South Wales where the climate is the same. Thunder showers must be left out of our consideration, as they have little bearing on the growth of trees, but the winter moisture appears of itself a sufficient test in almost every case of whether trees will or will no grow without irrigation in a given spot. On the Atlantic seaboard of the Northernitat the winter rain fall is ten inches; in Michigan it is less than four; on Western Missour it less than three; F Wester it is nearly 12 As a result, we find an abundant growth of As a result, we find an abu Naw York of opening in Michigan and Western Missouri, pening las in Western Kansas; al hough the total rain fall of the year in the atter case is as great as it is in San Fran. isco, and all but as great as in the forests of Central New York. On the other hand, the ummer rains of Colorado maintain a rich and valuable grass throughout the sumnier, and prevent the drying up of the rivers after the melting of the snows.-Atheneum

Give your children fortune without educa tion, and at least one-half of the number will go down to the tomb of oblivion-perhaps to ruin. Give them education, and they will be a fortune to themselves and their country. It is an inheritance worth more than gold, for it buys true honor-they can never spend nor ose it; and through life it ev a friend, in death a consolation

## EUROPEAN HARVESTS.

Another brilliant week has further reAnother briliant summer from the bad deemed the prammenced with, and, so far as wheat is concerned, it could not have been hetter, the occasional coolness experience rendering too has all expectations, we can anand contrary to all expecthe eve of harvest. Samples of ripe grain have been exhibited Samples of ripe the neighborhood of London of full average quality, though rather short. Others however, have appeared short. hear there is much of foot-rot, occasioned by excessively wet, chills on a forward growth; others much blighted have been exhibited from the Fens. The well-drained loams will therefore. as usual, carry the day, and the excessively heavy as well hat are to go short. Hungary has about inished with a good quality but have Italy, the south of France and spain; but there are yet complaints of backward ness and some rough weather has yet to Europe, while nearly the know what is our be gathered before Prices as yet have general stock of stood remarkably weil fut there bas been fineness of the weather; but there bas been a decline generally of 1 s . in this country, The about the same in Fre said to be suffering for barley and peas are said oats, potatoes and want or rain, as but there seem many indi many esculents is not far off, and our only cations that it will be smart and transient hope is main crop should suffer. Of the course of tie crops in Europe we do no course universally favorable reports; an though we would hope for the best, no great if any, surplus is to be reckoned on.-Mark Lane "Express."

What Farmers Cannot Conceal.-A poor farmer cannot conceal the fact that he is a poor farmer. All his surroundings proclaim the verdict against him :-his horses, cattle, waggons, harness, ploughs, fences, fieldseven his wife and children bear silent, but unmistakeable evidence against him. On the other hand, all these things will testify favorably on behalf of the good farmer. Every passer by can read the evidence pro or con. This fact alone ought to stimulate every farmer to do his best, for the sake of his own character, as well as interest ; for he may rest assured that every passer by will may rest assured that every pass to the evipronou

A Scotch professor, in his walks about Aberdeen, met a well-known "habitue" of the town, of weak intellect. "Pray," said the professor, accosting him, " how old can a person Jem Jemmy out brains? "
scratching his head, "how auld are ye yerself ?"
scratcing his ind a large box
The following notice was pasted oilroad a few which passed over the Pacific days since: Baggage-smashers are to handle this box with care, aston, and two liv glycerine,
gorillas.
a Paterfamilias, who was investigating wa cause of a fearful racket in the dormitory, welled met with this explanation: "I just pummed torHent wouldn't let me say my prayers.

Said Lord John Russel to Mr. Hume, at a public dinner: "What do you consider the object o legislation?" "The greatest good to the greates number." "What do you consider the greatest number?" continued his lordship. "Number one," was the Commoner's prompt reply.

## Answer to Pizate in Last Month's Number.

answer returned from
The only correct answer returned from the puzzle in last month's number is from the Wonderful Prophet.-The Cock.

## Corxespoudence.

## ROTATION OF CROPS

The rotation of crops has not always been racticed. Farms were formerly divided into meadow, plough or tillage land, and pasture : nd each section was permanently used for these specific purposes, till the meadows were covered with moss, and the tillage ground was so impoverished as to yield in erior crops. Under this system, meadows were frequently restored by means of top dressing, and tillage land was restored by what is called a fallow. There is a seriou bjection to this mode of farming. For dur bjection to this mand ing the continuance of it, the use of the land
lost, the same as the use of money is lost, if permitted to lie idle without drawing interest. The very idea of a fallow is, the ground is let alone to produce just what springs up pontaneously, or nothing at all; and whatever does thus spring up, is permitted to re main and decay where it grew.
The Flemings are the first known to have resorted to the rotation system for keeping the soil in a proper state. They insisted that where it was practiced, the land did not need rest; and, it was this system which gave their husbandry a preeminence over that of every other country at that period. They relied so much upon it, that in some instan ces; they were able to obtain two crops in the same year. In Scotland, it has been scrupu lously pursued with the very best result It was also introduced into England, and is become general there; and it is now constautly gaining advocates in this country.
The greatest benefit is to be received from that species of alternation in crops, which is made between culmiferous and legıminous crops. The former includes wheat, oats, bar ey, rye, Indian corn, tobacco, and most of the grasses. 'The latter include peas, beans, other pulse, potatoes, turnips, carrots, beets, cabbage, and clover. Accordingly it has ry some been adopted, that good husband follow quides that these two classes shous where each other uninterruptedly, unless wher how grass is made to intervene, ticular ones from ever, selecting whatever particulark best. each of these classes he mifation of plants, i
as follows: Calmiferous plants are termed robbers or exhausters of the soil. They are particularly so, during the process of matur ing their seeds. Hence, if cut green or when in blossom, they are far less exhausting. Leguminous plants, as a class, are far less exhausting; in the first place, because only a few of these mature their seeds-and, in the second place, all of them having broad leaves, draw more moisture from the atmosphere than the narrow leaved plants which com pose the culmiferous class. Also the roots of culmiferous plarts are generally more fib. rous and more divided,spreading themselves near the surface, and draw their nourish ment principally from the upper of the soil. Leguminious roots are generally spindle formed, having what is called a tap root, with few radicals, and consequently draw most of their nourishment from the lower stratum of the soil, and through the lower extremities of their roots. An eminent chemist says, that plants exhaust only that portion of the soil which comes in contact with their roots; and spindle root may be able to draw an abundance of nourislment from land, the surface of which has been exhausted by short, or creeping roots. The same writer remarks, that the roots of plants of the same or analagous species, always take like direction, if situated in a soil which llows them a free development; and thus hey pass through, and are supported by, the same layers of earth.
The following fact may be given in confirmation of this theory. It is proverbial that rees of the rame species will not flourish in uccession in the same place. Hence, if a worn out peach orchard is to be removed, and young trees of the same species are to ccupy the same ground, instead of being planted in the holes from which the old ones were taken, they must be arranged in rows intermediate to the old ones. So likewise in regard to all fruit trees, unless a suitable period has been allowed for producing the decomposition of the roots of the removed rees, and thus supplying the earth with fresh manure.

Charles l. Manley,

## St. Catharines.

the Editor of the Farmer's $\boldsymbol{A}$ dvocate.
The that I purchased from you last fall spral I ever had has proved the He is well liked by all that have on my farm. He is improving the slock of thi seen him. I have had 130 sows brought 10 hin township. I have sold four young pigs 1 raise from him for $\$ 36$, making a 0 tal He has as good as ever.

JOHN KENNEDY,
Hyde Park.
Mr. Weld :-The bushel of wheat I got from you in the spring, yielded a good than my other well oats were a rar beter
oats, growing side by side. D. HARRISON,
Russel, Ont wouldn't let me say my prayers." The basis of this

## FARMER'S ADVOCATE.

Mr. Weld-Sir :-I am fully satisfied with he superiority ofte in all its parts, and does its you. It is chan any other drill I have seen. One great advantage is the sowing of the grass see before the wheat, as it covers it well and prevent falling in the ridges too thickly with the wheat iving both the grass seed and the wheat a litll chance.
W. BRANTON,

Delaware, Ont.
To the Editor of the Farmer's Advocate
Dear Sir.-Enclosed is the notes signed according to your request. Please forwar the Little Giant immediately
The Fall Wheat in this part of the country is almost a total failure, being hurt with rust. Some fields on new ground will not be cut; which if well filed would pis Treadwell and to the acre. Ine 2 Midge Proof which I got 2 bushels of Amber Mide only wheat about from you, is anything like a crop. I think I will have 30 or 35 bushels of the Treadwell, nd about 20 of the Amber Midge Proof; the former was sown on sod, plowed once with a op dressing of bleached ashes, and the latter on new ground. The Treadwell had the best chance, and is not only midge proof, hut rust proof, or nearly so. I have no trouble to sell it for $\$ 2$ per bush. The principle part of the wheat sown about here, was the Soules, and the sooner it is abandoned the better.

Yours \&c
FRANCES PECK.
In some instances the Treadwall has been a little attacked by both rust and midge.[Ed.

## THE VETERINARY DEPARTMENT

Ringbone may be defined to be an osseus bony Tumour upon the pastern bones, forming a ring of osseous matter around these bones. This disease may or may not invol he Pastern Coronet and Fetlock joint
The class of horses who are mostly predisposed to the formation of Ringbone, are those having short upright pasterns, and who are coarse and fleshy legged. It is an hereditary disease, and is also caused by heavy araunding upon the Pastern joints Neight decencing upon or boney deposit Nature forms an ossificenthen in as it were, around this joint to strengthen are oftener seen in the hind, than in the fore legs, is owing to the great amount of weight or stress which the hind pasterns have to support, more particularly in the actions of galloping and backing. In the early stages of this disease, it does not necessarily follow that the animal should'be lame, but if the ring. boné in its formation creates any great amount of tension of the Periosteum or mem brane covering bones, or if the ringbone is in close proximity to a joint and interfering with the action of a particular joint, then lameness will be seen to a greater or lesser extent.

Treatment.-When this malady first makes tappearance, or when a true diagnosis is ormed, even without any perceptable enlargement over the seat of tingbone, hot and cold fomentations applied alternately, will be found of great benefit ; it is also commendable to give a. strong dose of purgative medicine Counter-irritants or blisters must be applied and repeated, if 'necessary, after
the action of the first has subsided. The
operation of Periosteotemy may be performed, which means the severing of a white, fibraus, resisting membrane, surrounding the ringbone, providing the boney tumor has no connection with either joints or legaments. Destroying the nervous sensation going to the affected parts and foot, by per forming the operation of - Neurotomy or Nerving, has also been recommended, but 1 need scarcely say with only too lamentable results. Fireing and Setoning have also heen recommended, and when judicinusly performed, I have invariably had go
in practice from its performance.
Before closing this ermmur ication, I would remark that there is a most vile practice resorted to by quacks back townships, vi, of the ringbones. take a jack-knl thessence the which is only too often seen, the res viz., the severrating the capsular legament nh also prounds the ioint from thence there will be free escape of Synovia or joint oil. Irritative fever then sets in, and baffels all rreatment not unfrequently carrys the poor sufferer off. This, then, is the result of mans brutality.

JOHN L. POETT,
Veterinary Surgeon and Fellow of the Edin burgh Veterinary Medical Society.
Our Veterinary contributor is prepared to furnish information on any subject belonging to his department. He will also furnish to applicants private instructions as to treatment, \&c. \&c., together with medicine necessary, for $\$ 2$. The medicine will be sent Post paid to any address in the Dominion, ard for any disease of animals.

## WOMEN IN ADVERSITY.

Women should be more hushed and confided in as wives, mothers and sisters. They have a quick perception of right and wrong, and without always knowing why, read the present and future, read characters, decigns and probabilities, where man sees no letter or sign. What else do we mean by the adage " mother wit," save that woman has a quicker conception and readier invention than, man? How often, when man abandons the min in dispar woman seizes it, and carries the ship home through the storm? Man often flies from home and family to avoid impending ruin; weman seldom if cever forsakes home thus. Woman never evaded mere temporal calamity by suicide or desertion. The proud banker rather than live to see his poverty banct may blow out his brains, and leave as in suffering and want: loving woman would have counselled him to accept poverty, and live to clierish his family and retrieve his fortune. Woman should be counselled and confided in. It is the beauty and glory of her nature, that it instinctively grasps at, and brings to the truth and right reason. man's greatest faenly takes before it decides, but womand instinct never hesitates, and with reason. Woman feels it has even minks, acts where he deliberates, hopes where he despairs, and triumphs where he falls.

## WHEAT TESTI.

William Weld, Esquire, - Dear Sir:-I herewith send you a statement of the different samples of Seed Wheat you'sent to me last fall, containing from one to four ounces each, and the yield from each sample sown at the rate of four ounces per bed, each bed ten feet wide and twenty-two feet long. 1868 in drills on the 18th day of September, of the township of Gosfield, in the County of Essex.
No. 1. English White, 1 oz. sown, shrunk, yield. 5 oz
No. 2. California White, 4 oz . sown. winter killed, yield, 2 lb .12 oz .
No. 3. Deihls White, 4 ozs. sown, shrunk yield, 4 lb .10 oz .
No. 4. Kenturky Midge Proof, 2 oz . sown, Winter killed, yield, 2 lb .
No. 5. Sadonica White, 5 oz. sown, Midged ${ }^{6}$ yield, 1 lb .1 oz.
No. 6. Bouton White, 4 oz . sown, Midged, yield, 4 Ib .
No. 7. Salla Red, 4 oz. sown, shrunk, yield, 1 lb .3 oz.
No. 8. Lancaster Red,4 oz. sown, yield 6 lb. 40 z No. 9. Bohemian Red, 4 oz. sown, Midged and shrunk, yield, 1 lb .4 oz
No. 10. Italian Red, 4 oz. sown, yield 5 lb .13 oz No. 11. Weeks' White, 4 oz. sown, yield, 5 lb .12 oz.
No. 12. Amber Red. 4 oz . sown, yield 3 lb . 9 oz . No. 13. Red ChaffMediterranean, 4oz. sown, yield, 7 lb
No. 14. Berdenska Red, 4 oz . sown, yield, 3 lb .14 oz .
No. 15. French Red Chaff, Mediterranean, 4 oz. sown, yield, 10 lb
16. White Chaff Mediterranean, 4 oz snwn, yield, 6 lb .4 oz .
No. 17. Sakonka Red, 4 oz. sown, yield, 13 oz No. 18. Treadwell White, 4 oz. sown, yield, 12 lb .
We return our thanks to Mr. Fox for th care he has bestowed on the grain and the promptness of his report. We hope other persons to whom we have sent grain at our expense will give their experience with them, that we may be able to draw comparisons Mr. Fox's report has been more accurately obtained than our own, in regard to weight and measure. We hope some others will report on these same varieties, also that the gentlemen to whom we have sent several kinds of spring grain will send We rave dif in during their eisure hours. We have ferent kinds being tried in various pard of the Dominion. We we sometimes near of such fabulous reports that we deem it necessary to enquire into the position and tharacter of the writer, and sometimes have to suppress as they are apt to lead people astray; they may appear startling and make a talk, but it is reliable facts that we wish to procure. We hope more of our practical agricultural men will use their pens. We do not think it would be any disgrace for a pesident, vice president or secretary of any agricultural society,or even a Reeve or coun cilman to attach their name below an article on some agricultural subject. Our columns have always been open for agricultural infor mation, We should not condemn an article from a member of parliament or director, if it contained only agricultural information Reader! cannot you furnish some informa tion for the "Farmer's Advocate," that might be of advantage to your country.

## QUEEN VICTORIA'S MODEL FARM

Situaled about a mile from Windsor, it is prob ably the most perfect, as it is the most expensive ably the the kind in the world. Its dairy depart ment is thus cescribed: "We entered a beautifu cottage, and were shown by one of the Queen favorite servants into a room about the roof supported by six ontagonal colus. The white marble, with richly carved capitals. floors were of white porcelain thes, May-blossoms stained glass, bordered with Mes,. The floors daisies, butt r-cups and porcelain of a delicate blue tint, with rich medallions inserted of the Queen, Prince Consort and each of the children. Shields, monograms of the royal family, and bras reliefs of agricultural designs representing the seasons, completed the ornamentation of a marble quisite dairy. All around table, and through the centin on basins, through porled by marble petual stream of spring water By the table slabs are always co d and the temperature of the dairy is chill, while the white and gilt china milk and butter dishes resting on the tables are never placed in water We drank the delicious milk, just brought in bright metal buckets, lined with porcer on the Queen's monogram and crest gite room where brass plates on the covers. skimmed and strained he butter was cyes on the rows of metal porce , feasted cans of every size, made 10 lock, and ain-lited royal family even ás far as Scolland so they always have good milk and butter. The churn was ot metal also, and lined with porcelain, made in two compartments. cold have warm o ber surrounding the cylinder could the 'coming of cold water poured butter, whout and the stationery stand on whas screwe whole was turned made the work easy and rapid."

NEW IMPOR'異ATION OF SEED
We have received from Mr. Miller, a large quantity of imported wheat from Germany and Scotland. This wheat, coming from similar climates to our own, should be a great acquisition to our country. The qualities of the wheat are just such as we would select for a change. The samples are good. Now is the time to sow them. A little in each section should be obtained, as the in crease of a good kind is great, and one may make a good thing by having superior seed to supply his neighbors with. We divide it into quantities, so that all who have a desire to be the foremost in their different sections can secure it either by express, rail or post Try a little of it.


## THE BEST SEED DRILLS PROCURABLE,

Messrs. Maxwell and Whitlaw.

## $T$



ECONOMICAL, SUCCESSFUL, AND UNRIVALED



Acknowledged to be the best Harvesting Machine in the Dominion. Leffel's American
DOUBLE TURBINE WATER--WHEEL made to order.
 SENT FREE i SENT FREE 1
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SENT FREE I SENT FREE $~$
O'KEEFE, SON \& Co.'s SATALOGUE OF SEEDS.

## fiome lilio vigitible <br> GARDEIN, For 1869.

M. OKREEEL, SON, \& Co., Seed. Importer, nud Growere
Now York.
E. A. TAYLOR \& Co. Booksellers and Stationers, SCHOOL BOOKS, MAGAZINES,

## THOROUGH-BRED STOCH

## SHORT-HORN CATTLE

 OOTSWOLD, LEIOESTER, and SOUTH DOWN SHEEFImproved Berkshire Hogs. I WILL eell by Public Auction at my farm, four west of Toronto-on Wednesday, September 29th-th following pure bred stock, viz. :-
15 head of Short-Horn Cattle; 9 Cows and Heifer and six Young Bulls, montly Aired by the Premium
Butse Baron Sotway, Dike of Bourbon, And Louden Duke, and the eows in calf to Louden Duke. Over 100
head of pure bred Cotewold, Leicester, and South Down Sheep, consisting of Rame, Shearling Rams, Ram
Lambs, Ewes, Shearling Ewe Lambs the largeet and Lambs, Ewee, Shearling Ewe Lambs; the largest and
best lot of sheep ever efrcred for sale in this country.
Also about twenty young Berkshire Pigs. This is a Also about twenty young Berkshire Piss. This is a
rare chance to secure good animals to show at the Local rare chance to secure good animals to sho
Fairs. ALL THE ANIMALS ARE YOUNG In good health and in breeding condition. The whole
will be sold w hoout the lightest reserve, at the peoppe', own prices. Catalognees will be distributed at the Pro
vincial Fair at London, and sent to those apylying for vincial Fair at London, and sent to those applying fo
them. Teams will meet the trains at Brampton on th
moruing of the Sale, TERRMS_-All sums under $\$ 40$, cal ; over amount six month credit onapproved notee, or discount at the rate of eight per cent, per annum allowed for
cash. $\stackrel{\text { Wer }}{\text { twelv }}$

JOHN SNELLL.
Edmonton, 26 Ang. 1869.
Edmonton, P.O; Ont.
SHORT-HORN BULL FOR SALE.

## " Duke of Magdala."

 ter, 6707, [217.] \&e. VIDE CAADA HERD Book. Red oleor, very quilat, ind has already the one three firk
prizes at county and township shows. Price reasonable. 1-in-p Apply to JOHN B. TAYLOR, London, Ont.

## EXTENSIVE SALE

## REAL ESTATE!

IN AND NEAR LONDON, $\mathbf{W}^{\text {ILL }}$ be sold by private sale, and immediate posseg. "ELMHURGT," "eing the homestead of the late Hon as
orable Mr. Justice John Wilson, consisting of a handsome stone house, finished in the most complete and
substantial manner, with stone stable and conch orchard, greenhouse garden and grounds, in all about
16 acres of excellent land 16 acres of excellent land, in the best cultivation, and
delightfully situated on the bank of the river, within ten minutes walk of the market or post offle, and free
from city taxes. Also, The Homestead Farm
land, on the Whead Farm, of about 100 acres of excellent
honse, two large barnse high way, with good brick farm house, two large barns, hedse and about sevonts acres
cleared, and all well fenced within cleared, and all well fenced, within a mile of the city;
a good gravel road and no toll. Also, 180 acres in the to nehip of Delawa
cleared, balanee well wooded with beech and maple
eeven miles from London, Also, part of hits 3 and 4 , gegrel road.
Also, part of lots 3 and 4, 1st con. Lobo, about 100
acres; a arood brick hones and frame outbuildings on
the property beautitully ittant
aces; a goo brick honse and frame outbuildings on
Also, north part of Lot 7, 1st Con: Westminster bro,
ken front, about 90 aeres; with frame farm house and
ken front,
outbuildings.
Also, several houses and lots in the city of London.

$\left.\begin{array}{l}\text { or W. J. HUGMESS, St. Thomas, }\end{array}\right\}$ Executors.
F. Broker, Inexurance Agent, and Agent of the Ns tional Stoamship Coy., from New York to Liverpool
Calling at Quenstown, Caling at Queenstown. Prepaid Certificates issued t
bring out from the above places, or Germany. m-c.y.

NEW PATENT CIDER MILLS h. Sell's patent for 1866

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 - vered albotanatal: It arreco of tio
FIRST PRIZE
at the Provincial Fair held at Kingeton, 1867 ,
and also wase awarded DIPDETHA
Che same Fall at the
New York stato Fair
held at
at held at Buffaio, and
again it has carried off
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CHAS. DAWBARN Co.,




[^0]:    JOHN ELLIOTT,
    PHOENIX FOUNDRY,
     GLOHE TOUNDRY.
    
    
    

[^1]:    ?

