Vol. 4] UEVOTED T0 THE BEST INTERESTS OF THE COUNTKY. [No. 1 widitypid

London, February, 1869.


## AGRICULURAL STATISTICS.

We have often alluded to our meagre agricul tural information. Its importance toward the farming inierest seems to be underiated. We have elaborate reports of the fiscal condition of the country, but our leading interest is neglected. Our fi-heries, timber limits and mineral resources engross the attention of our legislators, and the in lustry of the printer is tasked, and the nation taxed to give reliable information concerning these minor sources of revenue. We by no means object to this but think it a wise proceedure, yet caunot but think that as an agricultural people we shou!d have more definite ${ }^{\prime}$ means of comprehending the amount sown and the average yield. Politicians may grow eloquent 'over our gold mines, our noble forests, but still the fact is plain that our permanent wealth is in the proper cultivation of the soil. Present appnarances sem to indicate that more energy will characterize the New Board than belunged to the Oll. We trust that such a system will be adopted as will enable us to learn from year to year the progress the country is making in agriculuural development. The machinery of the Arricultural D partment of the United States is far suparior to our own. It has established communications for the purpose of exchange of rare seeds, plants and reecs with the leading botanical gardens of the civilized world: Every year seeds and cationgs are dietributed for the purpose of being tested among the wost intelligen farmers of the varions sections alapted for their calare. The nanber of packnges
 ciuding over 30,000 sacks of winter wheat imported by the Commissioners The following money value of the crops nama fier the States of the Union:

|  | To同 yield. | Value. |
| :---: | :---: | :---: |
| Indian corn. bushel | . 768320.000 | \$610,948,390 |
| Whe at. | 212,441,400 | 424,706,460 |
| Rve.. | . 23 181,000 | 32,499,700 |
| Oats | .278,698,000 | 172,472,970 |
| Barley. . | 25.727,000 | $22.850,130$ |
| Buckwheat. . | . 21.359 .000 | 23.469,650 |
| Potatoes. | 97.783,000 | 89,276,839 |
| Tobacco' pounds | 313.724000 | 41,283,481 |
| Hav, tons. | 26.277,000 | 372,864.670 |
| Cuton, bales. | 2,450,000 | 240,000,000 |
|  |  | 2,027,462,231 |

The following shows the acre for the whole country
Indian corn (bu). $23 \quad$ Buckwhat

Barley.
11.5 Potatues..
${ }_{26} 5$ Tubacco ( bb )
26 Hay (tons) 1-31 Coton (ba'ez). . 30 whole country was as follows

Indian corn.... . $\$ 1875$ Buckwheat.... \$49 00 | Wheat $\ldots . . . .$. | 23 | 00 | Potatoes $\ldots . .$. |
| :--- | :--- | :--- | :--- |
| Re. | 7488 |  |  | Oas 1600 Hay Barley ...... 2025 Cutton. The number argregate value per head, of live stock in the Uverage States were as follows

Number. Value Av'ge Horses

## Mules ......... Oxen and other

 Oxen and otcatte.... Milk cows... 8,691.518 319,681,153 3670
 When complete a statement should be given us. Le he Government labor to maintain the Township. asel they would prove so many channels to conlect definite knowlelge. The lyead onfe arma simply have to comple the for ber means confer a benefit on the farming community of great value.

## Great Discovery for the South.

The Journal of Agriculture says, the pam phlet on the use and merits of the Ramie, by Dr. Roezel, contains al: information necessary to those interested in this valuable discoveryand describes this plant, with all its advantages
It is conver corton and as a substine French botanists, eded by the resulis of eminent French botanists, hat this plant possesses the following advantages
(and machines are already patented for its preparation):

## That of the best European Ramic

The best Europeun Wëmp. 2. That it is fifty per cent stronger
han the Belgian, flaxen, or linen fibre than the Belgian, flaxen, or linen fibre. as that of flax, and that it will be doubly as urat
4. That vhe plant is a vigorous grower, and will produce far the greatest amount of textile fibre of any plant hitherto known.
5. That it will produce within the belt in which it flourisliss, from three to fiye annual crops, each equal to the best gathered tiom hemp.
It requires less labor than cotton, is not destroyed by the catterpillar, dues not suffir from excess of tains, and withstands the longest drouth without injury? can be taken from the fieid in the morning and, a few hours after, a nice fine fibre mav be had by using a cleaning machine patented by Roezl.
The fibie of this plant is, when cleaned, with out bleaching, purely white, far finer than cotton or flax Inen. The plant, in a warm latitude, 1 perennaia, and the crops, from the ground; from be cons growth springs up at once he ratcous three four, and even five cultings per annum in Louivians, midde and luwr Mis sesip;i, Alabama, Texas, G orgia, Flonida, and Sonth Carolina. Rich sandy ground snits best, but it is so vigorots thai will do well anywhic, and the roots, or pieces of roors be used to increase the plantation.
In a word, the culture of this plant will reconaruct the prospetity of the South, its malkt current.- Home Jounal, Kentucky.

There is a tract society in Sterling, Scotlan!, onsisting of we man unly. His name is Prier Drummonl. He ik a coman, and about ivenhas put into circulation about gity millions.

## NEGLECTED MANURES.

An old adage says waste not, want not. This maxim can be applied to nearly every farm yard. It is lamentable to see with what carelessness manures of all kinds abound on every homestead, and the little use and care paid to it. Were greater attention and longer time devoted to this, the backbone of all good farming, we should hear-and see less of light crops, exhausted and worn out soils would become an exception, and the agriculturist would find his exchequer replenished abundantly as a reward for his extra labor. A celebrated scientific English farmer recently said that putting in crops without or else with poor manure, remindèd him of a person eating a slice of dry bread upon a slice of dry bread, or 'in other words bread upon bread, and no butter. Manure to your land is what butter is to your hread. It cannot be expected to produce or be fertile, unless it is encouraged and aided by stimulants to support it, and that too frequently. It was never known to be injured by judicious manuring; common sense will show, that the successive cropping robs the soil of the very natural as well as chemical elements that are required to nurture and sustain them. These must be replenished in order that the land be kept up to its producing status. Moreover the value of manure does not consist in its quantity, but the quality is the thing to study. We go in yards in the winter time and perceive the cattle ravenously tearing and munching away at the straw stack, destroying more of this article than they consume, which with the little elroppings from the animals, aided more by the snow and rain, gets after a time reduced to a rotten pulp, and is termed and thought by the uninitiated to be manure. but had they a little simple knowledge of ohemistry to analize the component parts, it would be found that nearly two-thirds would be water, which gives it a weight in being carted; but orr exposure to the sun and wind evaporates, leaving the ground work, which is nothing but chewed straw excremented by the cattle on this article, and cannot be properly classified as a fertilizer. Hay, straw, grain, and the general produce of the farm given to animals, should be fed to them in good warm sheds-in stalls, with a proper quantity of straw under them for litter. These artieles them by the process of nature become amalgamated, and should be carefully collected, and put into a shaply square heap, at least six feet deap. The various gases contained, then come in contact with each other, causing it to ferment and heat, and this will increase its ammoniacal qualities, consequently its strength. All scrapings of gutters and ditches should in the autumn be carefully collected together to form a bottom for the dung heap. It should then bo taken from under the cattle,
and well strewn all over it, being careful to colfect all dead leaves and vegetable matter of all kinds; strew these generally over the pile, and above all collect all the urine, and throw over it in addition. The dung pile should then be turned over three or four times during the winter by a man with a fork, beginning at one end, it should be cast back, heaping up as high as he can. This has the effect of generally mixing and in corporating it together, the fermentation causing it to decompose and rot, and it then becomes in the best possible state to put on the land. Wood ashes in its natural state, contains little in itself, but is valuable to be mixed with the dung heap, as it is an absorbent, and has the power of catching and retaining the ammonia evaporated by other articles in the air. Caution should be used to have the dung heap, so that rain shall wash it as little as possible, and endeavor to secure what does drairror wash away by putting down a barrel in the ground, and then returning its con tents occasionally to where it came from. If our readers will act upon our suggestions which are simple and inexpensive, they will find that they can make a good mixed compost, which, when applied to the land, will be found to act on it at once, and in a state to incorporate itself with the production whatever it-mak be, and the ultimate result will be good crops, soil not robbed, and what is more encouraging, a stronger material will be required to make their pockets qut of, in order to carry back from market the extra proceeds of their industry and attention.

## PRIZE SEED DRILLS.

Messrs. Maxwell \& Whetlaw of Paris have long been celehrated for the manufacture of their Prize Seed Drill which has been giving such entire satisfaction. Not one has been returned although ten days are allowed for trial. This drill has taken six first prizes and six diplomas, and three second prizerat the Provincial Exhibition during the past nine years. It was only awarded the second prize last yeor. The Empire drill was awarded the first prize. This is an American machine, constructed at a lower price and has an attachment for measuring the number of acres sown.
Messrs. Maxwell \& Whetlaw are now manufacturing the Empire drill. They will not recommend them until they have been fairly tested in the country, but will guarantee the Paris drill. They are waranted to sow well any kind of field grain, sow it evenly, and any reasonable quantity per acre. If any of our subscribers are wishing to procure a really good drill they can dn no better than send their orders to us, as we are appointed Agents for both of the machines, and our
orders will be first attended to. If credit is orders will be first attended to. If credit is
required a certificate of reliabity from the

## Reeve of any township is all that is necessary,

 but that is not required where we are acquainted with the parties. Seven per cent interest is charged if credit is required, and if the marhines no not prove satisfactory they may be returned within ten days. The buyer would only have to pay the freight. See prizes in advertisement.The Canadian Dairyman's Association will hold their annual meeting at Ingersoll in the Town Hall on the 3d instant at 10 o'clock A. M. X A. Willard will deliver the address on the important subject of "How to Preserve the Flavor of Checse." The last year has been a successful one in point of increase of numbers under the able manage. ment of Charles H. Ellewith, President, and James Noxen, Secretary. Let all interested attend.

Illustrations.-During the present year we do not design confining ourselves to illustrations strictly pertaining to agricultural matters. We shall not neglect the Youth's Department, and as a sample of our devotion to its interest we present the beautiful cut of the hare-brained team. We will continue these pictures during the year, trusting the increased expenditure will be recompensed by the approbation of our patrons.

## SEEDS.

The season will soon be here when seeds of all kinds will be in demand. Many varieties that the careful farmer has saved, will answer his purpose as well as the best he could purchase, and often much better, as they are sure to be fresh, and that is a very great consideration. We strongly recommend farmers to raisa more of their own seed. We have felt the great loss that has accrued by using inferior seed, and having purchased the best, we are using every means in our power to adopt a system of disseminating the best procureable. To do this as it should be done is a great undertaking, far beyond what our present capital will permit us to expend in the undertaking, however we have not been negligent since last season in testing varieties ourselves, and have also various varieties tested in other parts of the Dominion. The following gen tlemen are aiding us in this branch of our undertaking-Mr. Fox of Olinda, Mr. Lepere, of Paris, Mr. Eggleston of Cobourg, Mr. Marr, of Westminster, Mr. Eccles of Yarmouth, Mr. Mason of Morpeth, Mr. Leslie of Toronto and several others.
We have also made arrangements with Messrs. Dawbarn \& Co., of Toronto, for packing and supplying seeds for us. We have now command of a good supply júst imported from the mostreliable seedsmen in England, and to be perfectly sure that the seeds are good Mr. G. Leslie is now tersting hun-
dreds of varieties in his hot houses. We wish to supply none but what are really good.
Seed will be supplied to any person ordering, a few valuable and rare varieties will only be supplied to subscribers to the paper. We have expended very large sums of money for the advancement of the Emporium, and each subscriber to our paper is a supporter of it, and will be the first supplied with rare and valuable kinds of seed. We are in a position now to warrant nearly every kind sent out by us. Accounts of every kind we sent out last year were satisfactory, except of the Chilian, or Platt's Midge Proof Spring Wheat, which has not proved to resist the attacks of the midge as well as was represented to us, and we had not been negligent in making enquiries. In our next paper we shall publish prices of different kinds of field grain seed, and in small quantities, so thatevery farmer, in any part of the Dominion, may be supplied at his own Post(Office, or we shall send by post prepaid. Larger orders may be sent by Express or per Rail. Our stock of seeds will be ready for shipment next month. Some of our own raising are now on hand. It takes time to get them from a distance.
We cannot particularly recommend any kind of spring wheat to supply in quantity. Our own spring wheat has not yielded as well as we anticipated, and we have yet to find a kind, if there is such, that will withstand the attacks of the midge. We have procured a small quantity from Mr. Jarvis, of what he
termed the Michigan Midge Proof. It has yielded better with him than any other variety; he speaks highly of it. We are fully satisfied by the appearance of it, that the midge has attacked it. We will only supply it in small quantities for others to try in different parts of the Dominion. The Quebec wheat, as we call it, having procured
it from that part of the country, and not * knowing the proper name for it, appears to us as if it would bé more suitable. The China Tea is also h'ghly spoken of by some persons, others speak more highly of the Black Sea wheat. The Rio Grande answered as well - with us.

In sending orders be sure and state your P. O. address, as well as your nearest station. Persons having any really good seed are requested to send samples, andustate price and quantity.

## THE OLD AGRICULTURAL BOARD

It is now four years since we commenced the publication of this paper, and have constantly exposed the mismanagement of the Agricultural Board. By so doing we had brought on ourselves the fnll power and influence of the old Board and its supporters, and have still been forwarding our plans
despite the numerous plans that have been hrought into operation by the managers of Agricultural Affairs. But patience and perseverance will conquer. At length one Member of parliament, Mr. Nathaniel Currie, of West Middlesex, brought the subject before the Legislature and caused the accounts to be investigated. Mr. Currie says that it was from the accounts he read in the "Farmers" Advocate" that induced him to bring the subject before the Legislature The consequences has been such an exposure of affairs, that every political paper in Ontario has been supplied with food for many weeks
past. Thus we need not report the full pro ceedings, suffice it to say that there appear a deficiency of $\$ 8,000$ the whole Board and country are attempting to place all the mis. management on Mr. R. L. Denison and make him, as it were, the scape-goat. We do not pretend to justify Mr. Denison, but we are too well acquainted with many of the Old Board, and know something about the wire pulling and how the cat has jumped for years, and must say that there are others that have been supporters or supported by the Old Board, that are equally or more to be blamed. We do not wish to probe this matter further unless we are compelled to do so, as we think it might perhaps tend to our public injury, and we believe the Government will smother the matter over as quietly as possible, and it may be the best. Still we may say, that unless we expose it, it will never be known. We do not consider the loss in cash bears any comparison to the loss the countryhas sustained, by checking or attempt• ing to stamp out private enterprise, unless the parties should be reliable supporters of the Old Board. In fact the matter had appeared to us that the sum we have been taxed for to foster agriculture, had been used in far too many cases, as a direct check to it. We hope and believe we shall see a, great change for the better under the New Board. It is our desire to make known to the public a few facts of importance that may not be known to them, and if possible to attend their first meeting.

## TO OUR FRIENDS.

We thank you for the numerous valuable communications received, and respectfully invite you to write for our paper any useful hint, however simple, as long as it is of value to others and advantage to us. Never mind about its being written just as you would wish. We look all communications.over, and when permission is given, alter them to suit the paper. We prefer giving writers' names, but they are suppressed when desired. Nearly every one of our rendeas know something that would be use ul to others. This paper is for that purpose, and has always had its pages open for anv useful subject pertaining to agriculture. Never has any useful contri.
bution been suppressed, therefore we hope to receive from you much more than we received last year. When you have read this take your pen and write an article for the next number. It will do you good and be of benefit to us and to our readers.

## TOWNSHIP SOCIETIES.

From our exchanges we learn that general prosperity has attended the managment of Agricultural Societies, during the past year. The majority have a respectable balance after meeting current expenses. Large amounts have been awarded as prizes, and the government grant has been liberally supplemented by individual effort. Our farmers have generously supported township and county societies, and it has proved beneficial to the interest of agriculture. A laudable ambition has been fostered, and farmers strive to excel. The office bearers of these societies have an arduous duty to perform, and it is a just cause for pride, that so many can be found to devote their time to the successful managment of such societies, for no other reward, than the good opinion of their fellows. We fully believe these societies to be mighty engines for good, and our columns will not fail to present such facts, as will benefit them and their interests. In opposition to our immediate interest, we advocated the maintainance of these organ. izations, against the idea of merging them into large fairs. We consider them local institutions, and trust they will answer the purpose of developing the resources of their own neighborhoods. Will Secretaries and members, please forward us short accounts of their transactions during the year?

## MINISTER OF AGRICULTURE.

The conduct of the Honorable John Carling in demanding a return of the financial condition of the Agricultural Board, has elicited warm expressions of approval from many of the most influential of our Agricultural Societics. Had other ministers been as faithful in the performance of duty, the present deficit would have been avoided, and the benefit to the country would have been great. Mr:Carling has commenced the work of reform in a masterly manner, and we trust will not cease till terly manner, and we thentiated and corrected. Ther abaise so freely given to Mr. Carling, should he sufficient to prove to him that he is sustained by a large proportion of his fellow citizens, and has it within his power to win a good name hy rectifying the mistakes, and we might almost
predecessors.

## NOTICE.

We have an application from a celebrated English Botaniot, who wishes us to procure for him 2 or 3 heads of Canadian Chess with the stem attacied, the same as cut from the ground. 'The season bring late, we have none. Could any of our numer us readers oblige us with this? H s commente and explanation t will ar pear in our pafer in due times

## FARMER'S ADVOCATE.

## 30xsep.

## VETERINARY SCHOOL

The farmers of Canada can congratulate themselves upon possessing a Veterinary College of no meán pretentions. Its suceess is of vital importance, viewed in the light of our constantly increasing herds. To the French belongs the honor of instituting these establishments of learning one beit.g founded at Lyons in the year 1761. It still maintain a proud pusition among the Continental Schouls. The Emperor allows $\$ 100,000$ a yeap for its support. London boasts $\$ 100,000$ a yeap for its support. London boasts
of a successful College, and Edinbargh has long of a successful College, and Elinbargh has long
been celebrated for the character of the instruc tion imparted. The Ontario Veterinary College has only been in existence six years, but in that time has gained an enviable position in public confidence. It has itree professors who are well known to possess high qualifications for the position. We trust it may meet with a cordial support from Canadians. Animals in a state of nature are exempt from many diseases that characterize them when domesticated. To thorough ly comprehend their anatomy and to be able to prescribe remedies for diseases affecting them is a necessity. We trust the time is not far distant when every village will possess a veterinary surgeon who is well posted in his professin. Many valuable animals are lost owing to maltreatment by inexperienced "horse doctors." We hope that the proprietors of large herds will endeavor to acquire an amount of skill requisite to treat the most sommon forms of stock discases

Defend the Weak Cattle.-Some farmers are not as careful as their true interests require them to be in separating weaik stock from the strong and aggressive when the season of storms and feeding comes round. In most herds embracing any considelut?e number, will be found some animals diminutive in size and timid in proportion to their physical weakness, which the more vigorous attack whenever a modest effort is made :o share in the food supplied. Theyare hooked here and chased there by the strong, and should enlist the care and sympathy of their owner. It will pay well to provide a separate inclosure for such animals till sufficiently de till they are rendered fit to be disposed of in some other way to advantage. If left to shirk for themselves they will be likely to go under before spring, or stould they winter through they wil be in a condition so exhausted as to render them next to valueless for that season.-Moore's
Rural.

## THE HORSE.

The front of the horse's chest contains his lungs, by which he breathes. Behind them separated by only a thin kind of skin, is the stomach, destined to receive and digest the food. Each of these organs becomes larger when in use ; the lungs orcupying more room when the animal is moving about and breathing more quickly. The space they occupy is then so filled that only one of them can be distended at a time The horse ćan swell out his lungs, ania breathe
hard, trot or gallop fast, provided his stomach be empty ; he can fill it with safety when at rest, or nearly so till the focd is digested. But in they are both full, the greatest danger is to be ap.
prehended; the horse is sure to be "blown" alprehended; the horse is sure to be "blown" al most immediately, because he has cause the o breathe, and apoplexy may
enimal to drop dead in a minute. No horse should be allowed to get an unlimited supply of food. A proper quantity should be given and no more-cnough to satisly his requirements and then to allow proper time for him to digest Many a horse has been killed from a fit brough an the corn bin having been kity to gorg himself to death with the temping food.-Lon aon Horse Book.

## The Bots in Horses.

In one sense, surely, it is "the worm that never dieth:" for ten times a year some empiri cal recipo-and stale at that-travels the round of our agricultural exchanges, for the infallible estruction of this vivacious creature. Would not be as well to ancertain wher bim Il surts of nostrums ball more ar less injurious and absurd? For our part, we do not believe that this worm injures him in the slightest degree, and in this opinion we are sustained by Youatt-the very highest veterinary authority We remember a discussion annung some artille ry officers on this very subject, in the month of March-just before the evacuation of Centre ville. Half a dozen dead horses were opened,
and the stomachs of all of them were more or and the stomachs of all of them were more or less eaten into and riddled by the bots, and yet no one claimed that these animals died of the the natural habitant of the insect. If the horse dies, the worm bores through the stomach in the attempt to escape a place no longer suited to it wants precisely as a rat will abandon a falling house. It is preposterous to suppose that one of nature's voblest creations should be at the mercy of so conteinptible an insect. We hope this question will be moroughly ventilated at the next meeting of the Veterinarian Association,
and set at rest forever.- Turf, Field and Farm.

## Remedy for Tender Mouth in lorses

## -

Some horses will always be exccedingly render in the mouth, while others are sometimes ridle bit able. The corroding of the iron strung animal, will sometimes produce canker in the sides of the mouth, just as mechanics often get sore holding cut nails in their ips while a ork. Sometimes the headstall is buckled up short that the iron bit is drawn up with much bin against the sides will be liable to have sore mouth; and the wound will be so very ender that scarcely the pressure of the weight of the reins can be endured. Sometimes the check-rein is drawn up unmercifully tight. All such things cause sore mouths.
The most satisfactory remedy for a sore mouth is a preventive. It the headstall is too short, lengthen it, so that the bit may ride lower down drawing up the check-rein too tightly gieater length. - Ex.

## CARE OF HARNESS.

One has but to pass through the market and lance at the weather stained looking harness on farmers' teams to be convinced that suffknow of few who pioy the attention that
economy demands. Thousands of dollars are lost by farmers owing to this fact. Leather should be kept soft and pliable especially in winter. We do not advocate keeping it completely saturated with oil until it beenmes rotted. But we do assert that if a harness is properly cared for it will last a third longer than is usually the case-- Withont oil leather becomes stiff and soon breaks and the rain settles in the cracks rendering it weaker and weakel every day. Such a coating should be kept on the leather as will render it water-proof. It looks most magnificent to see a farmer drive up to church with finely polished loots while his harness looks as if it had been dipped in a solution of walnut barks by way of variation. Take care of your harness and you will find that the labor has not been expended in vain. We append a receipt for harness blacking that we can with confidence recommend. The English patent harness Hacking, which, is coinmended for keeping leather soft, and giviūg it a good polish, is made by disolving together over a slow fire three ounces of turpentine, two ounces of white wax; then add one ounce of ivory-black and one drachm of indigo, to be well prlverized and mixed together. When the wax and turpentine are dissolved add the ivory black and indigo, and stir till cold. Apply very thin, and brush afterwards.

## RATHER FOGGY

One day, off the coast of North Carolina, we got into a fog which lasted us the three days' Watches, so dense that we could see the channel
the steamer cut through it, three miles astern like a new road, cut hrough a cedar swamp. Lounging along forward about seven in the torenoion watch, I'drifted in earshot of two jolly tars, just as one of them put out a feeler in this wise: "I say, Bob, did you ezer see sich a fog as this 'ere, afore?"" "Ay, ay, mate, I have that. I have seen fogs down a ong the Sable Banks and about the Canso, that this 'ere stoff vouldn't be more than a bit of mist alongside of when I was in was it, Bob? nen I was in the of Rifieman, and we bank, one day, that carried away our jib boom and stove in our pott bulwarks. There was lots of gulls and other big birds stuck fast all in among the fog, just like sheep in a big snow Wift; nct a bird of them could move a wing. Wed been on allowance of water two weeks, and the carpenter sawed chunks out of that ere og, to fill every cask in the ship; It was tiptop ater of it $\delta$ un't melted when we got 10 Liverpool, three munths afterward,"

Provincial Fair.-The number of entries a ingston for 1867 were 4,842 and the amount of were 6620 and We must remember however, that Hamilion is he centre of a rich arricultural district while Kingston is on the outstirts.

A bluff old farmersays: "If a man professes o serve the Lord, I like to see him do it when he neasures onions, as well as when he hollers glory halleluyer."
A cabbage has been grown near Jackson Miss., with thirteen solid heads. Enough for a small family.

## FARMER'S ADVOCAIE.

## Cattle.

## T00 MANY CATTLE.

We believe we can justly assert that the majority of our farmers attempt to winter too great a number of animals. Empty mows greet the spring sun. and weak lean cattle nibple at the half-formed grass. Our winters are trying on stock even with good shelter, and a full supply of nutritious food. But in a large number of instances they possess neither. Many farmers ask themselves what is the prospect for an open winter, and seek for weather signs and on these base the cal culation of how many cattle they can "c carry through." But lo! their prognostications fail, the-winter is severe, and the barn yard is filled with kine so lean that we wonder how such a crop of hair can grow on so miserable a soil of bones. The result is that the senson is far advanced before the cattle have recovered from the prostration induced by poor feeding in the winter months. This is a short-sighted policy and farmers will find it to their interest to keep no more than they can maintain in good condition, even if the Spring should open later than anticipated. Dispose of your surplus cattle and pay careful attention to the remainder, so that when grass comes they may be in good flesh and not mere waltering skeletons. Milch cows especially show the results of short fecding in a scanty supply of milk, and calving time finds them so debilitated, that it requires careful attention to recover. Many valuable cattle are lost from this cause. One giant evil of the Western States is the almost insane longing after large farms, and 'mpoverishing tillage is the result, and the same principle guides too many of our farmers who boast of the number of cattle they have, although their farms cannot properly feed half the number possessed.

## FEED FOR COWS.

To determine the proper variety of food for stock, we must be guided by the object in view. If we aim alone to produce fat, we must provide oily material, and promote rest in order to prevent waste. We must maintain a high temperature as this dimin ishes the waste of fat also. If we desire the development of muscle, provide food containing albumen. We see the truth of this in feeding horses, for a horse cannot stand the amount of labor or muscular exercise when fed on Indian Corn, that it can when fed with oats. The destruction of nfuscular tissue is greater than corn from its oleagin ous nature can repair. Chemistry is such a valuable as sistant to the labors of the agri culturist, that the farmer who does not give every ounce of food with a definite aim,com mits waste of treasure entrusted to his care During the winter months a cow is valuabl
in proportion to the per cent. of butter her milk yields. We must feed sufficient oleag. inous or fatty matter to serve as fuel to maintain a preper degree of animal heat and to afford a surplus in the shape of butter established by the researches of Dumas who decides as follows on
fat in artioles of forage,
Indian Corn
Rice Corn................ $8.750_{1} \mathrm{per}_{\text {pent }}^{\text {cent }}$
Oats.
Rye....
Wheat.
Clover in Flower
Whent Straw
Oat Str:
Beet
Beet...
Potatoes
1.00
330
10
............ $\frac{2}{2}$

4 " the superiority of one article of food over anothes to ntfain the object sought. But there is another light in which to view the relative vatue of foo fur cows. Sulphüric ether can remove from on hundred pounds of hay 2 lbs . of taty matter jet a cow in good condition will only give about 1 a lbs . of butter showing that $\$ \mathrm{lb}$. has been slored up or used for the production of heat. From the same we can conclude that the $y$ ield is only in Aroportion to the amount contained in the food $^{\text {a }}$ given. But aside from the consideration of in mediate return cows should be bept in good tiesh preparatory to califing time. Many valuable prepmals are lost owing to neglect in this particillar. We do not claim it to te desirable that the cow should be in a fit condition for beef but think they should be in a better condition than is usually the case. Cows should also be warmly shellered from the cold, and no farmer can expect a profitable return ion phe winter to be exposed to the piareity blasts of winter. Shelter is food.

## The Cause of Abortion.

Thanks for your answer to my query, as to the cause of abort on in cows, in your impression a fortnight ago. I now concider I can
trace my losses to stagnant water, which I otherwise would never have thought of. Maicle [We are glad to have been sble to afford you a clue to the causes which have caused such losses among your cows. Stag. nant or foul water is injurious to all animals. It causes bloed noisoning and thus leads to many febrile complaints. It brings on abor tion in other animals as well as cows. Twin winters ago three valuable mares, belonging to a somewhat careless, untidy farmer,slipped their colts shortly after Christmas. The mares had been tolerahly well kept, and not too hardly wrought, but they had been watered for several weeks at a pool hy been side of which a largo manure heap the highly foolishly placed, and into which the hicher way organe ewes watered from the same pool cast their lambs ; while another lot of ewes, kept two fields distant; managed in exactly the same way but enjoying a purer supply of water, carried their cambs been ful period. St the water supply being taken to prevent the water supply neithg contaminated by the manure from, marertion. Similar cases have doubtless occurred in the experience of many of our readers. J-North British Agriculturist.

Low Feeding.-There can be little doubt that, as a general rule, cows are not fed high enough during winter to afford the best re sults during summer. A cow kept in a com fortable well-ventilated stahle with abundance of nutritious food, will be healthier and better able to stand the strain on her constitution at calving, than if kept on a low diet; and their can be little doubt that, with a cow of he rahs sull find is wey to the while she is dry will find its way to the pal In thg the summer in wistricts wor pensive even on the porest decciption food, but it is a short-sighted palicy to stint her, as we thus lose the whole benefit of her existence during sevrral months. It is just as important to feed her well while she is dry as while she is giving milk.-American Agriculturist.

Liquid Manure - In every one hundred pounds of cow's u:ine there are sixty.five pounds of water, five pounds of urea, five pounds of phosphate of lime, twelve pounds of wal ammunific and murinte potasb, and ten pounds of carbonate of potash and ammonia. While the solid excrements obtained from one cow are estimated to manure three times the amount. Our dairy farmers will see, thore rore, $h>$ w important it is to have to deposit this materil' or a good supply of anwdust dry eath or muck, for absorbing it in the dry earth, or mable. Urine is more efficient on light soi's than on clay lands and strong on light ; on the lattar much of its carbonate of ammonia is evolved hofore it can penetrate into them.-Utica Herald.

Oxen are searce in Oregon. The average price is $\$ 1,000$ per yoke.

A New Catrie Disease-A new cattledis. ease has appeared in Englind. The symptoms are dullness increasing to extreme prostration, difficult breathing, small and frequent evacuations, colorless urine, membrane of the mouth discolored and ulcerated as in the cattle plague, pulse weak but not rapid, and the temporature docs nit rise. Oto disease is not mann hion examination show that the blood has been poisoned.

Liquid Manure Tanks.-We take the fol lowing from the Weotern Rural: As liquid manure is exceedingly ben fieial to all vege. tables plenty of it should always be availate, and without, a liquid manure tank this cannol he obtained. For large gardens, a thak should be built exactly lika a cistern; the bricks being closely cemented at the bottom, sides, and roof, to prevent the liguid sim percolating through the soil, and the tank. keep surface water conveyed to the tank the liquid shou from the stable, byre, kitchen, by tie drains rom the sut by a pump. In small gardens a hogshead or large cask of any kind that will hold water may be sunk in the ground, and will answer on a small scale. In this, soot:gunno, etc., may be converted into $a$ valuable manure, by dissolving them in a suiteble proportion of water. Manure is much more reardily tnken up by the roots of plants when in solution than when in a solid state. In faat, solid manure sponge-like mouths of the roots.

## FARMER'S ADVOCATE.

## flower glepartment.

## DOUBLE STOCK.

To the ladies-One part of our paper is devoted to the young. This issue is not as replete as we could wish in tbat department, as wa have not given them an Anagram or Puzzle Picture, but there is amusement and a moral in the Engraving. flowers, butimany of you are too fully occupied, so that you cannot attend to them, still there are we hope rone of the readers of our paper but dc vote a little attention to them. We now present you with this cut of a beauttful double stock. The cut is sent to us by Mr. Vick of Rochester, who has issued a very large and handsome an. nual catalogue, highly illustrated, and giving prices of his seeds and plants. We intend having a supply of cl oice and suitable flower seeds in the Spring, induce your lady friends to send in their subscription to our paper, we thill send to each lady subscriber a small packet of choice flower seeds, free by post, such as will do you and your friends more good than the price of this paper. Just send one ladies name in from your vining the flowers ear yom the seed sent from the Emporium Department.
We will also presentany one of you with a few chciee Seeds, that send us in a short and useful account about anything that will be of use and ben. efit to our readers on Domestic Econ. omy. Try it and help your Editor.

## Preparing the Ground for Flowers.

The soil should be a mellow loam, if possible, made deep-a foot or eight. en inches at least-and then the plants will not suffer so much ip dry weather. It should also be well pul. verized-completely broken up-and made as fine and mellow as possibla. on a poor soil ; so, if not naturally rich, make it so with a liberal supply of well rotted manure. Every oneeven those who d) not keep a horse cr cow-can have a good pile of manure for flowers without cost. Obtain a lot of turf from the sides of the roads and the corners of the fences, place it in a pile, and throw all the soapsuds and slops upon it. In the autumn, collect the fallen leaves and put them upon this compost heap. Keep adding to it, as you have time and convenience; and when well-rotted, you will have excellent manure for flowers. Always drain the flower garden, so that water will not lie on or near the surface.

## Sowing Seeds.

Many seem to think that seeds will grow anywhere and under any circumstances. They have seen the farmer make a hole and throw $n$ his corn, and in a little while it was up
and growing vigorously; they have learned careless system of planting and cultivation, that the seeds of our native trees and weeds and fill his grounds with Dandelions and grow without planting and care ; and from Poppies ; but he wants the rare and beauti. these facts they get the idea that it is of little ful flowers of every land, so far as climate consequence how or where the seeds are will permit, to adorn his garden. He'must planted, so that they are in the ground. But have those that flourish naturally in warmer these should remember that the seeds climates and under more genial skies; and planted by the farmer are usually large and to do so, care and skill are required, and a different system of culture than is


Largest Flowering I warf Stock. necessary for the propagation of weeds or the more hardy plants. There are others who, have altogether an exag encountered in the growth of plants encountered in the growth of plants
from seed. These views may be the result of repeated failures. They result of repeated a green-house es.
think a hot-bed or sential, and that without these con veniences little can be done in growing valuable plants, but this is not the case. - [Vick's Catalogue.

## Seed Bed.

Make a bed of light, mellow soil, in a shettered situation in the garden; and as soon as the weather become settled, and the ground warm, sow the seeds, covering them with a litlie fine earth, and if very small, sift it upon them. Some one has given as a rmle that seeds should be coverd wice the d ${ }^{\circ}$ pth of their own diameter; that is, that a seed one-sixteenth of an inch t'rrough should be covered one-eighth of an inch. Perhaps this is as near t're weather should prove dry after t'e weather should prove dry a the beds of very ball seeds with dimp beds of very small seeds with damp moss, or what is better, wihi evergreen most anything that will afford partial most any thing that wroction from the drying winds and protection from the drying wind an it sinn, will answer a good purpose, for not require light for their germination and grow quite as well in the dark until they are above the ground. The covering should be removed as soon as the plants are above the soil, or they will beconse weak and pale. Of course, it is designed that plants from the hot-bed, cold.frame and seed-bed shall be transplanted to the border or beds where they are to flower, and these helps are intended mainly for Tender and Half-Hardy Annuals. The Hardy Annuals may be sown where they are to flower, though, with the exception of a few varieties difficult to transplant, it is best to grow all in the seed-bed. Some persons sucreed very well by starting seeds in the house window in flower-pots. A much better plan is to use shallow boxes, becanse the earth in small pots becomes dry very rapidly, and unless constant attention is given to watering, the plant. will be partially or entirely ruined.
produce stronger and more robust plant ${ }^{8}$ than those of the florist, and thus are enabled to bear more hardships and to live under more unfavorable circumstances. If the florist would be satisfied with only the most hardy and prolific fiowers, such as would take oare of themselves, then he might pursue a

The first quarterly fair at Port Perry last week was very successful. A large crowd attended from all parts of the riding; the stock was excellent, and sales encouraging to breeders. Beeves çhanged bands at from $\$ 4$ to $\$ 5$.
A semi-annual fair will be held at the vil. lage of Teeswater, on the second Tuesdayn of April and Ootober.

DISEASES OF THE WHEAT PLANT. A correspondent writes on this important subject as follows:

RUsT.
"I have heard many causes assigned for ust that is such a source of loss to us farm ers, but none I think nearer right than the one given py a writer in the "Advocate caused by a too rapid growth at night and caused by a too rapid growth at night and drying up in the hent of the day; the stalks crack allowing the sap to exuae from these A careful examination of the wheat soon after the rust makes its appearance will tend to strengthen this opinion. But the ques. tion arises is there no way to prevent it, and the only way we can arrive at a preventive is to fully comprehend the cause. If the cause assigned above is correct, I think thorough drainage an important thing as it would tend to produce a slower, and at the same time a harder growth of stem rémov ng all superfluous dampness from the soil Again, I would not apply any manure unless it was well rotted. Early sowing has its ad vantages as the wheat is more advanced when the rust strikes it, but I think there is more depending on the situation and the state of the soil than on the time of sowirg. A high place is more likely to escape than ow one. I think the soil should also be oosened to a considerable depth in order that the wheat may take s deep root, and it will be less dependant upon the surface moisture, thereby being better able to sup. ply the loss by evaporation during the hea of the day.
smut.
I have endeavored to find some cause for it but am not perfectly satisfied. As aspre. ventive I would prefer to have my segd fully ripe, and in all cases the soil should be in good condition. I wash it in blue vitrol and am convinced that this, to a certainextent, is beneficial. I have sown some dry and some washed, and the latter was full o smut while the former had very little. I consider one pound of vitriol sufficientoror
eight bushels of seed-though practice dif: fers.
chess.
This is undoubtedly a production of partly killed wheat, but if will also come from oats. If you do not cover your wheat wel you may rest assured of plenty of chess. My experience has taught me that irous in good clean seed and have the ground in good order and drained so that no water can emain oa the surface and cover the grain well that in ordinary sewill wo your much to fear from chess. Wemselyes on thi correspondents express themselves on thi subject?

RUSTIC.

## CHANGE YOUR WHEAT

Humphrey Hughes, Esquire, of Treadwel Post office, writes a highly commendatory letter accompanying his subscription for the curren year. In conclusion he says:-"Lwoutd b happy to get a small quantity of your best seed wheat and oats for spring sowing, but I am at a loss to give such directions as will enable it to each tne, for I live some forty miles from Ottawa. know you gre right in advocating the urgent necessity for a change of seed. That is a benefit.
have demonstrated by actual experiment. Three years ago my own seed wheat threshed from nine to ten bushels per acre, while seed procured some twenty miles distant, yielded seventeen and a half bushels per acre. It gre on dry gravel land, but I sowed it on loamy land believe the change of soil does a great deal, bu the change of climate does more in my opinion Our seeds degenerate every year, so that if w do not get fresh seed we are losing all the time."
[Let us hear from you again.-Ed.

## COUNTY COUNCLLS

The criticiems on the nameless seribbler who attem palled impeach the honesty of our Councillors, has writtenth a varied exprension of feeling. Two have akin denouncing us, and concluded their lelters by nswer considered a duty, and nothing that we have heard since our last issue, causes us to regret the course pursued. If the reputations of individuals are to be Yeft to the mercy of anonymous writers who would be safe i if ublic abuse is to be reformed, or if persons are untru o their duties, why need a man shrink to proclaim his freedom or his name I In a country like ours, where rersonal speech has such latitude, no .We did not attempt to answer in detail, the remarks of "Rat payor," from the fate tharty was merely a bundie of absurdities, such an characterize the general tune o hone who have no orfeetion to use the slanderer veapon, if they can do so in the dark. It was writte oodoubt, to serve a poitioal purpose, and perhaps pe re will not meddle, but we wish our subsoribers to mederstand that while we are always willing to assall that which we deem to be public colls, we have no ympatity with those who elaim to be work'ng for the public good, and are too modest, or if you please, to owardly, to give their names. Proof, not assertion, what we agk, and without it, we are slow to believe tha aen of the social and moral porition of oar councillora, publio funds

Prang's Chromos. -The New York Henald in an animated description of an Art Exhib tion in that city, speaks in the followin high terms of these beautifil pictures:
Side by side with the original of Bieratadt's "Sunset in California" was exhibited a chrom copy by Prang, and so faithful is the repro duction tha at first glance it is impossible to distinguish between them. Equally faithfu chromos of dohnson's "Boyhood or ind Coreggio's "Magdalena" were also on nd Coreggio's "Magdalena' were also on view.
In England the average yield of wheat per acre is twenty four bushels; in the United States, twelve bushels; in Californa, valley five bushels; and in Santa Clara valley ninety bushels.
Origin of Fruits.-Prof. Karl Koch, of Berlin, in a recent paper befor the Norwich meeting for the advancement of Science has proved that the almond is the parent o the peach, as has long been supposed. He did not believe the Green Gage Plum was derived from the same parent as the Dam son ${ }^{4}$ and ordinary plums, the thought it came from a distinct species. He though all the cultivated cherries came from on pecies.
The total quantity of milk delivered in gallons, or above 120 gallons per week.

It is thought the California wheat surplus for export th is season will reach 350,000 tons.
Freezing for Crops.-Mr. Samuel Westlake of Kroxville, who has farmed in Iowa for iwenty winter which froze the ground very hard was followed by excellent crops the next summer. Al will remember that last winter and summer were a notable example of this rule.
Does it Pay to Drain.- Every day we receive estimony that money expended in reclaiming swampland is not lost. Near our large cities land is valuable owing to market facilities, and brought under the plough. Mr. Pike, the New York opera house proprietor, recently purchase 4,000 acres of Jersey salt tuarsh meadows, at cost of about 16 an acre. Aler draining an acre, he is now offered $\$ 900$ per acre for the enire property, thus yielaing him a profit of millions, if he chooses to close the bargain.
The Galveston Civilian says that oattle over year old, which have not been maiked or branded, are everybody's property in Texas and may be killed by any one who meets them.
Immigration-We have a communication from Mr. John A. Donaldson, giving a state ment of the arrival of imuigrants at this point showing a marked improvement in the num last. In 1867 only 2,105 remained with us at this a gency out of a total of 16,288 , the balance 4,092 , passed through to the Western States while this season, out of $23,305,4,671$ remained in this country, the balance 19,784 passing through.-[Globe. 16 th .
Cincinnati brewers are impurting barley from Germany. They say it weighs eight pound more to the bushel than the American grain
At the Mount Forest Castle Fair, on the 16th ult., the average prices were-for oxen, $\$ 60$ to $\$ 75$; steers, $\$ 35$ to $\$ 45$; cows, $\$ 16$ to $\$ 20$, and heifers $\$ 10$ to $\$ 14$.

HOGS IN ORCHARDS. - A correapondent of the Kissouri Republican adds his testimony to the good influence executed by hogs when pastured in she apple orchard. After trying agll the reputed preventatives of insect ravages he came to the conclusion to give up fruif rowing, when he was advised to make a hog parture of is orchard, which he did, and the the trem nemies raplaly have new life imparted to them.
THE FATTING HOGS-Bhonld now havo gvery care, if they are not already in the pork barrel. Keep heir pens warm, fat is ful which med min as wearer Fed and a litle at a time. Oooke repl puding a litle warm, is the beat. M you have oconvenience for cooking, a barrel in the corner of the Eitchen, or in the cellar, can be used in an emergency put meal enough for a feeding in it, turn on bolling water sufficient to make it moderately thin when stirre ap, throw a blanket over it and let it stand until 000 nough to feed. A little charcoal, a vory fow the shes, or a chunk or
HARROWING.-In harrowing it is best to pass ove e and ground length wise the arst Always roll the land in the friluce fillow and give ace y obviating the tearing up and displacement of the sod y the teeth. Harrows of different sizes and differen degrees of fineness should be used, especially where fin ailth is desirable, and this is always the case when grail or small seeds are to be sown. Where but one bartow employed, much of the strength of the team as weil as Large portion of the time and.
operation, is unavoidably lost. -Fz .

## 24 <br> \%outh's deprarturnt. <br> A HARE-BRAINED TEAM.

A fine ride this little fellow was taking across the fields with his trained team of dogs. The dogs were models in their way until beset by strong temptation. .Obedient to their master's voice until the hare ap peared, and then nature became aroused

## FARMER'S ADVOCATE.

We know not what we are until tried. We My $9,11,10,5$, is a bird.
should judge men by comparison with their My $9,11,12,14,5,3$ is one who prospers surrounding for others ills. ar or it is temptrion whe that proves the integrity of the soul. We have seen many a lad thus run away with, not by dogs, but by his own thoughts, and instead of being a man of honor, has become an out cast, and a thief. Drive with a tight rein, so that if temptation presents itself, we can stop instead of following.

My 12, 2,6 is a kind of coach.
My 6. 8,14 is a small animal
My $1,2,14$ is a kind of oil.
My whole is what every farmer needs.
W. CROSS, Pelham.

A Sc: recrow has been invented/down East of o hideous a character that the Lerows are bring. ing back the corn they stolo last vear. Ahem.

within them, and they followed in fierce pursuit, unmindful of the remonstrances of We think we is the same withour passions. in some ungunded moment temptation overcome sus, and the reinc are snatched from ver gresp and webecome slaves not masters If we throw the reins upon the necks and leave nur passions to dash away in unbounded freedom, the inevitable result is disaster and ruin. A quaint old writer once remarked, "not to mistake a full stomach for honesty." and there is embraced in it sound philosophy.

## ENIGMA.

I am composed of 15 letters
My $1,3,9,5,6$. is necessarv in everyplace Mv 3, 11, 4, 5 is an ancient city
My 7, 14, 15, 2, 4,5,6, is a traveling con-
My 11, 6, 15, is a kind of mineral
My $2,9,13,4$, and $15,10,5$ are witnesses God s great work.
My 12, $, 7,5$ is a flower
kes $1,1,6,3,5,12,14$ is what every one

SOLUTIONS OF PUZZLEIR LAST NO.
Answer to ridder.-Time.
ANSWER TO rCZZLE PIOTURE.--Sce the fox iu entre of pieture, fizing the roonter by the neck.
ANSWER TO ENIGMA.--William T Craig.
The following persons sent correct anewers to Enigma and Puzzle : W. Brown, Boniamhicad, R. MeCormick, Cnctanguisicicne ; W. Crose, Tellam ; John Armelrong iuleyville ; Chas L. Manley, St. Catherines; S. Flag ler,Hillier ; Peter A. McHinles, Ridgetown.

## foultry IVari.

## HENS.

Eggs as well as poultry have commanded fuir prices throughout the year. Parties residing near market towns have found the poultry-yard a source of considerable income during the present season. Aside from the home demand, nearly $7 ; 000$ bbls. valued at $\$ 80000$ have been shipped to the New York market from this Province. Sixteen cents per dozen may be put down as the average price during the year. Buyers have purchased all offered and could have handled double the quantity with ease. We would adviso our subscribers to pay more aittention to their fowls, believing from our rapidly in? creasing population, that a ready market will be provided for some time to come. On large farms the cost of production is very small. In the summer there are myriads of insects that afford an almost sufficient supply of food, and the fowls are valuable assistants in destroying these pests. In the winter there is always considerable grain scattered where stock is fed, and this contrihutes considerably to their support, and utilizos what would otherwise he wasted. For the amount of capital invested, no other branch of the farm returns a greater per cent. From some unexplained cause the yield of eggs in this Province fell short of 1867 of fully one-third. Judging from this we can safely prediet that our subscribers will find it to their advantage to increase their stock of poultry, and to devote some little attention to their care.

## THE HEN FEVER.

The ferer began early in the year 1849, in the neighborhood of Boston. An enthusiastic physician, hy the name of Bennet, had
the honor of starting it, by advertising an the honor of starting it, by advertising an
exhibition of his "sample fowls of the follow. exhibition of his sample owls of the follow. inz breeds, namely : Cochin China, yellow
Shanghai, llack Spanish, white Dorkings, Slymouth Rocks, de. '
The press of the country was rife with graphic descriptions of extraordinary pullets. of beautiful cocks, and enormous eggs, "laid on the tabie " of the editors; poultry breed
ing and poultry shows became the rage; ing and poultry shows became the rage;
flancy specimens of fowls, presented to Henry Clay. Daniel Webster and Queen Victoria, were par ded with letters of acceptance and were par
thanks.
To raise a chicken cock a littla heavier, larger or taller on the legs than somebody that could out crow all the vocalists of the neighboring barn yards, became the ruling passion of hundreds of sober citizens.
Early in the history of the mania, the moderate price of ten to thirteen dollars per
pair was paid for fowls which had never pair was paid for fowls which had never
hitherto been worth over fifty cents to one dollar. These prices were denounced by the early victims as monstrous, ridiculous and outrageous ; yet the fever spread so rapidly demand that far exceeded the supply.

At a later period, the principal deaier sold a good many of the choice breeds of his stock at from $\$ 50$ to $\$ 100$ per couple. Even this enormous price wassurpassed in one instance,
ahont the time the Queen's birds reached abont the time the Queen's birds reached
England and were figured in the Illustrated England and were figured in the Illustrated
London News, The chicken dealer who pre sented them to Hor Majesty raceived an order for four Gray Chittagongs from a gentleman in London, who readily paid sixty guineas for them, or over $\$ 150$ a pair. The
height of the hen-fever in England, about height of the hen-fever in England, about this time, ranched, and even surpassed the dovelopment of the same epidemic in the nnited Stntes. The Scientific American, in fowl for was s trong in englad in in fowl fever wa as strong in engha as in som pair oxhited was ot \$700 What sum for hen and looster! The common price for a pair is $\$ 100$ " added this journal but we have no space for detail, and must confine our histoy to the ravages of the conidemi in our own country. epidemic in our own country.
This singular fever broke out at á time When money was plenty. and when there was
no other speculation rife in which it was no other speculation rife in which it was eas it eutlasted ammost paris Hence it ompasted many of the its period havin manias known to histny, its period having
benn between five and six years. The whol benn between five and six years. The whole
community, almost tushed to the breeding community, almost fusher to the breeding knowlertge of the suliject. Nearly all lost money, while a few shrewd traders reaped mindeome profits. Thése recklessly invested thei. twenties, fifties and hundreds, hoping ther. twenties, hfties and hundreds, hoping
that the bubble of speculation would last their day, and enable them to come out with snug little fortunes. But the bubble burst while the majonity were still experimenting. Collapse and divappointment was the fate o the vast majority of the hemspeculators of the memorable era from 1849 to 1855.-Cincinatti Commercial.

To be certain of eggs in winter, hens must be ten months old, well fed and housed, and any breed will answer. Old hens will not lay until well feathered. Eirst, feathers ; second eggs.

Winter Food for Poultry. - To insure a good supply of eggs during the winter, we must feed our hens with materiats that from which eggs are formed. Fresh meat chopped tine, bits of tish, rinds of cheese, and such like things saved from the table to day, will come mack to the table in due time, in the form of new laid eqgs.
That the poultry may remain healthy during the winter, they should occasionaly be good, and carrots, livers and scraps of meat rejected on the table, potatoes and onions too small to use, and a little fat that wuild go into soap grease, will, when chopped and warmed, make a savory dish for the fowls in the hennery.
In preparing for obtaining eggs we must oi forget that the eggs will require shells. For this \&nd we should lay by a suitable amount of bones, or else should pulverize such as are in the meat we are daly cook ing , and keep this where it will nid becosls
covered with filth. Besides this, the fowls should have, from time to time, some coarse, sharp sand or gravel, to serve the place o teeth,--[Prairie Farmer.

## DOMESTIC ECONOMY.

COOD HAMS.-After hams have been smoked, take hem down and thoroughly rub the feek part with mo. asees; then immediately apply ground or powdered pepper, by sprinkling on as much as will stick to the molases, when they must be hung up again to dry. Hamo reated in this manner will keep perfectly sweet for two or three years. This must be done before the fly depos. it its egg, for after that is done, nothing will stop their ravages.
TO 8.
TO REMOVE PUTTY. - Those who have plant houses, frames, se., know how difiticult it is to remore -.d putty from sashes without injuring the eunb. I have very eary by applying a hot tron to it. 1 trled the iz veriment a few days ago for the first time, and was quito surprised to find how easily the most indurate old putty oanid be cut out affer being well warmed up by the ap. plication of a red hot iron. Try it.
CURE FOR THE TOOTHACHE.-At a meeting of he London Medical Society, Dr. Biake a diatinguisbied ,ractitioner, said that he was abie to cure the most des. peratè case of toothache, unless the disease was connected with rheumatism, by the appliteation of the following emedy: Alum, reduced to an impalpnble powdér, iwo rachms ; nitrouns sprit of ether, seven drachms ; mia ind apply to the tooth.
TO CLEAN GLASS - Common newspaper is one nt he bett articief. The ohemical operation of some in redient of tile printing tink givee a beanuiful polish. Sighty molsten a piece of paper ; roll it up and rub ito juss ; then take a dry, suf plece and repeat the p.
So liat will remain, as in the case of uesing cloth.
TO CURE A FELON.-It ib said that a poultice of wions applied morning, noon and night, for three or aur days, wise be aneoessry if the poullice fe a nied The remedy is a sure, safe and epeedy ono. So ays some one who pretends to know. If a genuine remedy it is worth circulating.
TO FIX THE ClOCK -Take off the polnters and he face, take off the pendulum and its wire. Remove he ratcoet from the tick wheel and the clock will ruil town with graat velocily. Leet it go, The increase wears a way the gum and dust from the pinions; ock oleans itself. If you have any pure sperm oll, put he least bit on the axics. Put the machine together, and ine difmes in ten it will run jusc as wal as if it had bee aken to the shop
sharpening edae toole.-The Mark Lane Express oopies the foilowing recipe for starpening edgo oois from a German scientific journal, for tha beneab or armers, mechancs alest method of sharpening a razor nown it half an hour in water to which has been dided one-twentieth of its weight of marlatico or sulphurio aid, then lightly wipe it off, and affer a fow hours set tit on a hone. The aeid here suppliles the place of $n$ wot. thne by corroding the whole aurface evenly, to. that nothing forther than a smooin polish is necesach. Fio rocess never injurea good b.ades, while bat nes are generaly improved by $i$ l, al
"Iprovement remses has been applied to many other "ting oplementa. The workman, at the beginning outting implepl, or when he leaves it in the evening, woistens the blades of his tools with water noldulated as bove, the cost of which is almost nothing. This saves the consumption of time and labor in wheting.
artipioial Harvbstima.-A process of artifically irying and curing hay and sheavee of grain in wel easons has been brought before the notice of British agriculturiste, by Mr. Gibbs, in a prize enas. The pro cess, which Mr Girbe has sibjected to the test of actuad experiment, consistsin p paseing the hay or shences tanned Iried through a ahed gupplich ot alr. The method is en. with a cont mo appoval of some of the best agriculturnta orred by he appro.
Broitrd Lawb Steak.-Broll slowly until quito Tone, then make a gravy with fresh butter melted by the steak, add a duat of pep
tablespoon ful of water.

## FARMER'S ADVOCATE.

## Agricultural and Horticultural So-

## ciety of London

The annual meeting of this Society was held on Tuesday the 19th instant and was well attended. The annual report was read, exhibiting a favorable condition of affairs. After meeting all expenses, there is a balance in hand of $\$ 83775$ The management has been most efficient, reflect ing credit on the office bearers. The election of officers for the current year, was then proceeded with and the following gentlemen elected.
President-Jas Johnson.
1st. Vice-President-Mr. Jas. Cousins.
2nd Vice President-Mr. Jas. Durand.
Treasurer-Mr. John Stewa:t, re-elected.
Sccretary-Mr. Wm. McBride, re-elected.
Directors-Messrs. J. Campbell, E, Glackmeyer, W. Saunders, W. Bissell, W. Barker, and John Elliott.
Mr: Cousins moved that Mr. Johnson be tha representative of this society at the Board of Agriculture for 1869. Carried.
Messrs. E. J. Collett and W. Dempster were appointed auditors.

Cobovrg Morticultural Society.--The rega lar meeting of this Society, for the election of officers, \&c., was held in the Council Chamber on the 15th ult., when the following gentlemen were elected office-bearers for the current year viz:
E. A. McNachtan-President

David Brodie-Secretary.
We are pleased tu learn that the Society is in a very flourishing condition, there being a hand some balance in the Treasurer's hands.

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$$

A Horticultural Society has been formed in Goderich. The officers are A.M.Ross, President, John Hunter, Vice President, P. Adamson, Secretary. Mr. Crabb has given a room rent free for the Society to meet in. May they prosper

## OFFICERS ELECT.

We present this month the names of the Presidents and Secretaries of the different agricultural Societies that have reached us. The list will be continued as we are able to glean the desired information:
West Gurafraxa-R. J. Black, President, F. Cassidy, Secretary.

Arthur-W. White, Pres., J. Isles Sec
Welles'ey-John Wilson, President, Geo, Oakley, Sec.
Biddulph-R. Smith, President, James Dagg, Secretary.
Logan-Jas. Sills, Pres., T. Covenney, Sec
Markham-James Eckwardt, President Jas. Speight, Secretary.
Thorold-Jacob Gainlo, President, Robert Spencer, Secretary.
Hamilton-John Cullis, President, Richard Cullis Secretary
Eramosa-John Grieve, President, Wm. Tolton, Secretary.
Reach -Mr . Graham, President, J. Chris tie, Secretary.
Beverly-Wm. Henderson, President, Jas. Bishop, Secretary.

Darlington - George Mitchell, Presiden . Windatt, Secretary.
Haldimand-W. H. Wickett, President.
Vesper-Jno. Darby, Pres., G. Sneath,Sec Cavan-W. H. Russell, President, J. W. Southeran, Secretary.
West York-J. P. Bull, President, B. Bull Secretary.
Huron-H. Snell, (President, S. Malcom son, Secretary.
Paisley-James Houston, President, M McNamara, Secretary
Ottawa - J. B. Lewis, President, A. S Woodburn, Secretary.
Wallace and Elma-W. Lochhead, Presi dent, J. C. Tilt, Sec.
North Ontario-George Wheeler, President John Christie, Secretary
Luther-W، White, President, J. Isles, Sec. Kincardine-Wm. Miller, President, Dr. Thos. Bradley, Sec.
Bosanquet-Wm. Hollingshead, President, John McGregor, Sec.
J. East Gwillimbury-J.Lundy, President, A. J. Hughes, Secretary.

Erin-A McMillan, Pres., J. W. Burt, Sec. West Hastings-G. Gilbert, President, S.D Farley, Secretary
East Middlesex--John Wheaton, President,
H. Anderson, Sec.

West Flamboro-Thos. Bain, Pres., Chas. urant, Sec.
Paris-C. Whitlaw, President, H. Hart,Sec. Matilda-T. Rose, Pres, H. Harkness, Sec. Burford.-D. G. Hanmer, President, J. Bingham, Sec.
Haldimand-D. Thompson, President, J Young, Sec.
St. Catherines-Wm. Eccles, President, F W. Macdonald, Secretary.

Cramahe-E. H. Black, President, Wm Easton, Secretary.
Tuckersmith-R. Govenlock, President m. McConnell, Sec.

North York-F. Smith, President, E. Jack son, Secretary.
Uxbridge-S. Widdifield, President, T
Todd, Secretary South Ontario
South Ontario-J. Shier, Pres. Robson
Nrith Simcoe-J. Ross, Pres., J. Thomas,
Secretary Secretary.
J. Ross, Pres., J. Thomas,

Stamford-G. Hyatt, Pres., J. A. Law, Sec. Guelph-A. Hogge, Pres., G. Murton, Sec. Georgiana-J. Marrett, Pres. H. Ego, Sec.
Halton-A. Camplell, President, W. C. Beatty, Secretary
Sydenham-D. McDowall, President, Chas. Will, Secretary
Willoughby-E. Shainboldts, President, J. McCredie, Secretary.
South Wellington-T. McCrae, President,
G. Murton, Sec.

Minto-J. Praine, President, H. Meikle john, Secretary.
West Northumberland-G. Bennett, Presi dent, C. Bourn, Sec.
Bruce-D. Brown, Pres., Wm. Scott, Sec. 'Turnbarry-F. W. Irwin, President, Wm Brock-J. Sec.
Pittsburg-J. G Pres., H. Glendinning, Sec.
Milton, Secretary. Strachan, President, R. J.

Scott-G. Thompson, Pres., H. Turner, Sec. Durham-P. Falle, Président, R.'T. Wil. liams, Secretary.
Adelaide-F. Petch, Pres., A. Preston, Sec.
Derby-L. Beaton, Pres., Wm. Beaton, Sec.
Oxford North-H. Parker, President, R. W.
Sawtell, Secretary.
$\underset{\text { Kecretary }}{\text { Kingston-J. H. Allen, Pres., A. G. Briggs, }}$ South Perth-J.H. Gould, President, W.W. Ford, Secretary.
South Brant-H: McEwen, President, D. McKay, Secretary.
Harwich-Wm. Clarke, President, W. R Fellows, Secretary.
Cardwell-G McManus, Pres., J. Allen, Sec Lambton-H. Rawlings, Pres., E. Watson Secretary.
South Victorin-J. Connolly, President, W. J Thirkell, Secretary.
Kent-G, Young, President, R. Lowe Secretary
Niagara-W. Kirby, President, H. Servas,Sec South Simcoe-Dr. Morton, President, W. M. enson, Secretary
Ameliasburgh-L. B. Stinson, Presidetı, S. P.
Niles, Secretary. Niles, Secretary.
North Simcoc-J. Ross, President, J. Thomas,
Secretary. Secretary.
Addington-S. Shibley, President, J. B. Ayls-
worth, Secretary. worth, Secretary.
Lennox-Dr. Bristol, President, C. Jaines, Sec West Durham-I. B. Lovekin, President, R. Windate, Secretary.
South Norfolk-J. Coveston President, H. W. Smith, Sectetary.
Huron-David Henderson, President, T. Wil, Secretary.

West Middlesex Agricultural Sóoiety, At the annual meeting of this Socioty held at Strathroy on Wednesday last, the following officers were appointed :-President, G. McGugan and G. Buttery. Sec. and Treas.,
James Keefer, Esq. Directors, Messrs. Jno James Keefer, Esq. Directors, Messrs. Jno.
Campbell, M. Campbell, Thos. Moyle T. Hughes, Wm. Buttery, A. Carmichael, S. Stevens, John Henderson, and W. H. Arm. strong. L. E. Shipley, Esq., was nominated as a Councillor to represent this electoral division in the Provincial Board of Agricul
tu-e tu"e
South Huron Agricultural Society.-The annual meeting of this society took place at Brucefield on Tursday the 19th inst. The President, Jas. Dickson, Esq., in the chair. Moved by Dr. Coleman, seconded by Jas. Bell, that James Dickson, Esq., be nur Presi? dent for the current year.-Carried unani Hugh
Hugh Love, Son., Esq., was re-appointed
Secretary. Robt. Gi
Robt. Gibbons, Esq. Was appointed mem.
ber of the Council of Agricultur ber of the Council of Agriculture
It was agreed to hold the next Fall Show
at Seaforth.
How are you Reciprocity? -At the port of Buffalo alone a vast amount of business has been transacted during the last year. The exports to Canada amounted to $\$ 300,000$ while the imports from the Province of Ontario amounted to $\$ 3,000,000$. Who pays the duty?

The second Monthly Cattle Fair held lately at Paris did not come up to expectations. A large quantity of excellent stock was exwas among the sales one car load of sheep

## FARMER'S ADVOCAIE.

## SHEEP.

Ere another number of our paper is issued some of our best farmers will have severál lambs which they know how to take care of. Some of our worst farmers may also have some and to those we would wish to speak. Many will be frozen to death, others will have their ears and ails frozen even in dry sheds, and thus check the growth of the lamb. The best treatment is prevention. If the lambing place is warm enough there will be no danger, but not one farmer in a thousand has a suitable place for early lambs and should not attempt to have them too early without conveniences. However, many may be saved even if partly frozen, by placing the frozen extremities in cold water, until the frost is drawn from them and then rubbing the lamb with a coars? cloth till dry; there will be no danger of its then freezing. We never knew of a lamb freezing after it was once dried, that is, provided it is not allowed to get wet and has sufficient nourishment. There is, numerically speaking, a great loss by having lambs early, but in point of value, one early lamb properly cared for, is worth two ond often three late lambs. Give all your sheep shelter at this season of the year and a little grain to encourage a flow of milk, and to prevent your wool from becoming cotted. Sheep hoald not be in a damp or wet shed; better to be in the open air than confined in filth; it tends to diseases of various kit.ds. Now is the time to feed celery. We do not commend large quantitie of turnips for breeding ewes before lambing. They are good for growing stock and may be given reely to ewes after lambing, a limited quantity only should be supplied to them previously. We have met with losses from too generous use of them, the lambs have been overgrown and caused difficulty in lambing and a greater loss in ewes than when onlv moderately used. This is a caution that is not much needed by most farmers at any time, especially this year when our roo rops are scarce, but as we are speaking on this subject we deem proper to mention it. Som may profit by it in future

Eight thousand sheep perished in a snow storm in south-eastern France, recently causing their owners a loss of $\$ 35,000$.
The decline in the price of wool and the prevalence of foot rot among the sheep has caused a panic among Indiana and Ohio wool growers. Farmers are rapidly slaughtering sheep have been killed within two months, and a proportionate reduction has occurred in other counties. This policy, of course,will diminish the yield of wool next spring.
A Kentucky farmer recommends that wool raisers pasture their sheep with cattle as an effec
tual preventative of ravages by dogs. He has followed this practice for many years, and he has never lost a single member of the flock by dog 3 .
Growth of Wool in the UniteduStates.The Rutland county (Vt.) Journals says: "The
history of the growth of wool is vely curious Fifty years ago not a pound of fine wool was grown in the United States, in Great Britain, or in any other country except Spain. In 1784 a lock was sent to the Elector of Saxony as
present from the King of Spain, whence the entire product of Saxony wool, now of such immense
value. In 1809, during the invasion of Spain by the french, some of the valuable flock were so at Lisbon, purchased 1400 head and to this country. A portion of this pure and unmixed Merino flock is still to be found in Vermon at this time. Such was the origin of the immens flock of fine wool sheep in the United States he present time.
At a late sale of sheep, at Worcester, England fs. to $£ 23.2 \mathrm{~s}$. - Twenty Leicester rams from $£$ $£ 616 \mathrm{~s} 6 \mathrm{~d}$. Ten Oxford rams from $14 \frac{1}{2}$ to 70 guineas.
A Sheep Verdict.-Srme months since the Messrs. Hammond, of Middlebury, Vermont obtained a policy in Hertford Live Stock Company. It seems payment was denied, and the matter Nvent before the Circuit Court in Rut land, where a verdict for the plaintiffs of $\$ 5,000$ was obtained.
The Butchers' Association of New York have awarded to Mr George-Oliver, of Galt valuable silver cup for the best sheep brought into their market this season.

## Club Prizes.

Our readers have seen the list of prizes that have been advertised in our paper, and pre sented by gentlemen that wish success to this paper and the Agricultural Emporium. Ac tive agents may make moncy easlly by gaining them. You see those that have already been awarded. There are mary highly valuable prizes yet to be awarded, that were advertized last month. All those that get up a club of 15 or over, are sure to have one of Prang's highly interesting Chromo pictures of Poultry of the World worth \&?, and if they are not all gained they will bs sure of having some of the large prizes. The Threshing Machine, the $\$ 50$ cash he Cider Press, 825 , and all the prizes below the $\$ 10 \mathrm{~W}$ ashing Machine, are still to be gained. Besides the prizes given this month, as we find numerous small clubs and single subscribers coming in, we offer them also inducements These are offered to those that are not in arears, or new subscribers.

## Prizes sent in in January.

## A. G. Machell, King,-,I. Abels Feed Mill, 835 .

Non Day, Thamesford, -G. Leenit' Fruit trees, ${ }^{425}$,
 J. Pennock, Elxin, Leeds Co -1 prize Washing Mal
chine, presented by J., Baker, of Oakville.......... $\$ 10$ The following gentlemen have gained the very hand-
sone picture of Tropical and Summer Fruits, which dre 150 each, and we feel sure they will be highly admaired
by all who see them. by all who see them.
G. Wilcox, Bethany; H. Pollard. York; W. Eqlestdn,
Cold Spings J. J. Campbell. Molesworth; Norman
Helds, Mallorytown, and G. W. Clemens, St. Georgea Numerous persons have gained free copies of the paper They may
er prizes.
We have not yet received an article suitable or the award of the literary prize. Persons hat have not yet been awarded prizes on acfrom an omission, may still have the opportunity of adding to them.

Erratum.-In our January issue, we nelected to give the address of Isaac Freeman, who raised 51 bushels of early Gooderich potatoes from $\frac{1}{2}$ bushel of seed, his address is Rodney P. O.

Farmers we do not pretend to give you a large or handsome or expensively finished paper as some of the English and American Agricultural papers are, but for the amount of realy good, useful and practical matter that is of importance to us, we ask you to udgè each article in this paper and compare them with any publication, compare the number of articles and what is said and decide for yourselves. Remember this pub ication is not intended to interfere with politics excepting those relating to agricul ture.

It is stated in the American Entomologist that ther re seven different insects, three of which are known to evour the larve of the curculio, and four are atrongly spected of doing so
A few days since a lady of Gloucester, Mass., had coasion to leave her house for a few moments, and left er six monthe' baby on the floor. On returning, she for some time she discovered thas.ing. Afer searching taken the baby to the garret and deposited it in a beeket of rags.
If a farmer looks out for the odds and ends about his farm, it may be put down that he will be successful.
Many Christians, says Beecher, arè like chennutery pleasant nuts, but enclosed in very prickly burs, frost, before the kernel is disclosed.
Russia has sixty-eight agricultural schools and eo Iges, one of which has 3,000 acres attached.

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Serrnt
London Markets, London, Jan. 25th, 1869.
 Beef, per pound (on foot).......... ${ }_{8} 00$

## FARMER'S ADVOCATE.

## DEEP PLOUGHING

Horace Greeley read the following paper be fore the Farmer's Club of the American Institute. After citing a few instances where there was a poisonous subsoil that it was injudicious to disturb, he advocated a disturbance of the soil more than is generally practiced by farmer:
"I have thus fully conceded that deep plowing is not every where requisite. Now let me show where and why it is needed: 1. It has been abundantly demonstrated that the roots of plante are otten found at a distance of several feet
from the stem. Any of us may have seca that this is as true of Indian corn as of Canada thistles. With \& microscope and due patience the roots of wheat may be traced from fonr to six feet. Of course, these roots seek nourishment and find it. Nature, in the broad view, makes no abortive, at least no wanton effort. Roors wander in search of food not otherwise to be and repellant. Wherever. a ditcher would and liy use a pick, there few toots can way except very slowly and by wasting cffirt Few or no cereals or edible roons can teed and flourish on the penetration of such subsuils. And while our sands and loosergravels are more easily traversed, they seldom contain the plantfood whereof the rools are in search. They either remain unpenetrated, or the effort is unrewarded by any gain of nutrition to the pram. tenlly hot and dry. The continuously treid lenty hot and dry. The continuously torind suns, which his year destroyed hair the
crops of Emrope, are here encountered as ofic as every third ycar. Drouth is one of the fore most causes of thie failure of our crops. Oir ancestors mainly migrated hither from the Bi it ish 1sles, from Holland, and the consts of Norith ern and Western Europe, where humidity is the rule, protracted drou:h the exception. Sixteen inches of soil in our climate is hardly equal, at and Holland. And yet the best farmers of those countries agree in commending deepler plowing. 4. What we advocate is not the burying of the vegetable mould or natural surface sod under several inches of cold, lifeless clay, sand or gravel. If the subsoil is not to be enriched, it may better temain a subsoil. But that does nol
prove that it ought not to be lified, stigred. prove that it ought not to be lified, stipred,
nerated, pulverized. The rightit thing to do in to aerated, pulverized. The right thing to do is to
enich as wcll as mellow and aerate the entire soil to the depth of fully eighteen inches, though welve may answer as a beginning, Michigan or a subsoil plow, if you will, and keep ibe various strata where nature placed
them. Bui give your plants, like yur catle a chance to reach food and driuk at all times. Let down the bars that would keep thens from
the life-spriags. 5. Planis look to the soil for (1) the lite-springs. . Plants look the soilfor (1) anchorage; (2) moisture ; (3) most of their
food. It they cannot find these more certainly in twelve to eighteen inches of soil than in six, then reasen is a fool, mathematics a conjectural bank to his credit of $\$ 600$ to one of $\$ 1,000$. We are told that the roots prefer to run near the
surface, loving the warmith of the sun. Let surface, loving the warmit of the sun. Lel
thicm run there, then. We do not hinder them. Make the soil iichas well as deep, and let them Muke the toin tich as well as deep, and let them
run near the surface for warmhth and descend for moisture, or both, as they see fil. We proffer heme freedom of choice. If a wet season at
tracts them the the surface, a dry one must contrain then to dive for moisture. It is our duty so to provide that they may flourish however way ward the season. 7. I have a steep hillside, which I choose to cultivate, the soil being warm and kind. Plow this six inches deep, atrd the first hard hower sweeps its soil by cart-loads into the brook below, where is useess. Plow luoded as in a lifetime peck of soil will be
plowing does, at the worst, no harm. In a dry
season it doubles the crop. 9 . Unless a small season it doubles the crop. 9. Unless a smal
army is tore effective than a large one, an empty pocket-book better than a full one a lean crop preferable to a large one then a deep soil must be more productive than a shallow one.

The Riining Tree.-The island of Fierro is one of the largest in the Canary group, and i bound soil, through which no river or stream Hows. It has also b it very few wells, and these not very good. Bat the great Preserver and Sustainer of all remedies this inconvenience in a wav so extraordinary that man will be forced to acknowledge that he gives in this an undeniable demonstration of his wonderful goodness. In leaves of which arc long and narrow, and con tinue in consiant vecture winter and summer and the branches are covered with a cloud which is never dispellec, but, resulving isself into a moisture, causes to fall from its leaves a very clear- water in such abundance that cisterns placed at its foot to receive in are never emp
It is said that of the nineteea million acres of land in the State of South Carolina, only onefourth is under cultivation. The remainder some $14,500,000$, is mainly in primeval forest Fully half of the $4,500,000$ now under quasi cultivation is for sale, some of it even so low as
$\$ 1$ per acre, and ranging from that up to $\$ 20$.

Extraordivary Pie - Perhaps one of the largest pigs in England, if not in the world, is now the property of Mr. Lloyd, of Bredon, Worcestershire, who purchased it of a neigh bor, when two months old, at $17 \mathrm{~s}-6 \mathrm{~d}$. This wonderful animal is now 22 months old measures 9 feet 6 inches from the end of nose to the tip of the tail, five feet round the neck, nearly 9 feet round the body, and stands 4 feet high.-[Mark Lane Express.

## Bras.

## WINTERING BEES.

In passing through the country during the past month we lave seen a large number of hives remaining on their summer stands. Some were uiprotectol while others had simply a board or two leaning against the hive to shield them from the wintry blasts! Some farmers pay attention to their hives only when they wish to syoil them of their honey which they often do with an unsparimg hand. They have no system and take what they want without regard to the requirements of the colony. The result is that hees are often condemned as tender and difficult to rear, whereas the fact is they hive been left unprotected and conse quently frozen to death or starved ly being rohbed of their winter stores. Believing that this inattention arises more from lack of information than drsign we have condensed from our exchanges the following items and trust they will he instructive to our readers:
How a Family of Bees Winter.
A family of fees, at the approach of cold weather, croxd tagether in a globular form,
to economize the animal heat. If the cold is intense, they pack the closer. Then, suppose all the honey in the vicinity of the cluster of bees has been exhansted, and all the combs long and severe cold spell, is it not certain
that if any bees leave the mass, and ven ture among the combs for a supply of hobey, heir fate is certain death?

## Dit Doors.

Our rules for the safe wintering of bees are Allow every colony that is to be wintered out of doors at least 25 lbs of honey in liven 1st of November. 2. A cluster of hees suf
ficiently large to extend at least through two thirds of the comb in any ordinary live. One or two inch holes to be left open in the top of the hive under the cap or cover. 4. It the hive be shallow, winter passages or holes through all the combs, to enalle the bees to each their stores by a "short cut" in very combs. Hoather without passing over fresty where they cannot get it without freezing it Some protection for the hives, sufficient to 5 . vent the sun striking them, sufficient to pre which excites the bees and draws them olt of the hive, when many perish. A few bonrds set up in fiont, or a little corn fodder placed around them, answers a very good proposethe idea being not to protect them from the cold but from the sun

## Wintcring Bces in Cellars.

Although this plan may have some objections, yet they are not so serious as the others. we have a suitable cellir othrr two, provided be dry, dark and well ventilated. The temperature should be kept as near 30 degrees as possible. The hives should be elevated some distance from the floor, so they will rot receive any dampness from the bottom of the cellur. The hives should have proper ventilation, if the box hive, bore a lole or two in the top, and cover over with wire cloth.
Mr. Cary, in the American Bee says the adv, in the American Bee Journal, are, that one halt less honey is consmed than when wintered in an umprotected place and if properly cared for, no swarms are lost, and if properly care bees die

## How much Honey to Winter a

 Swarm of Bees.A correspondent of the American Bee Journal in the December numbers of that exellent publication says
My bees are wintered in a room about ten feet square in the second story of a large buildspace of four inches between foarded with a space of our inches between, filled with tan.
Ventilators are so arranged as to be controlled from the outside, without entering the

November 27,1861 , bees were weighed and housed for the winter. March 9, 1862, they were carried ont and placed on their summer stands. March 12, weighed again. Average loss, per swarm, in 105 days, $10 \quad 1-10$ lbs.; greatest oss, 15 lbs.; least loss, 6 los.; averagc
daily loss, per swarm-, $11-2 \mathrm{oz}$. April 12, daily loss, per swarm, 11.2 oz. April 12,
weighed again. Average loss, per swarm, in weighed again. Average loss, per swarm, in
31 days, 4 lbs . 13 oz.; gverage daily consumption, per swafm, $21-2 \mathrm{oz}$
December 2, 1863, weighed and carried in bees. March 5, carried them out. Weighed again March 11 . Average loss, 10 lbs. 3 oz. in 99 days; greatest loss, 16 Ibs.; least loss, 8 lbs.; я verage daily loss, about 1 F Fz . Weighed again April 9. Average loss in 29 days, 4 los.; average daily loss, about $2 \frac{1}{2}$ oz. Previous rye meal, and carried in perhaps freely with per swarm, which would make the loss 5 lbs instead of 4 lbs
About the 20 th of February, 1867, I weighed early December. Which had been housed from about three pounds lighter had become only about three pounds lighter, each. They were
young swarme, and rather below medium.

## FARMER'S ADVOCATE

Getrixa Mensured yor boots on shois - We don' know who says this, neither bave we tried the experi ment to know whether to recommend lt, but it looks
reasonable that boots or shoes made after this plan of reasonable that not cause the wearer any uncomfortable
catting would ness.

## ne8

If you want a shoe to fit you comfortably, next time you are measured for a pair, stand upon a piece of paper and get the shoemaker to trace with a pencil the outline of each foot, we say, because two feet are never alike in eize and shape, though they belong to the same person. They aremore than right and left-they are unlike Don't suppose that you can be measured for a pair by the most careful measurement of one. Insist on having theoutlines as well as the girth and length of each foo taken, and then, if the shoemaker is an honest man, he
will send home a a air boots which with their turned-intoee, will look unpromieing enough when off, but when onoe on, will prove not only the most becoming, but the
Goo Rour The fumon Par
Good RoLls.-The famous Parker Honse Rulls are
made in the following described manner: made in the following described manner: Make a hole that has been boiled, with a cup of butter melted in it Add a quarter of a cup of sugar, and haif a cup of good yeast. Let it stand without mixing two or three hours. Salt to taste. Then kneed it, and set it to rise a few hours ; then mould it, and rise again in the pans before baking. The rolls require about fifteen minutes to bake na quick oven.
The ponies or horses pecutar to China are used only for riding, and by mandarins when upon offlicial business. All agricultural work, plowing, irrigating and working of rice mills, is said to be done by the buffalo
Bread Pudding. -One pint of grated bread crumbs one quart of milk, yolk of six eggs, one grated lemon, ad sugar to taste Bake
The tree planting committee of Guelph, report that bey have spent $\$ 221$ in that praisew orthy undertaking An enormous businesis done in the States, in gather Ing corn hukks, which are lused in the manufacture of astrasses. Hackled husks delivered in Boston, ar worth over $\$ 30$ per ton.
The owner of a model farm in Ponnsylvania, kille autting off the roots several inches below the hoe an Ater being set back in this way for two or three times the root loses all enterprise, and dies.
A fellow wats detected at Ipswich, Mass, in weighing on, which of course he meant to smuggle out of the was before the hay was delivered

## Cuntespondewte.

## To the Editor of the Farmer's Advocate.

CANADA.
And this is Canada ! the land Where rumour rears the great and grand The land of deep, dark, desert woods Of broad bright lakes, and foaming flood The land where once in ages wild, Roamed natures generous untaught ohild The destined land in times to come, Of mankind and of freedom's home

The borders of the ocean lakes, Erewhile bisprent with rugged brakes, And marches where were heard to float, The echo's of the bulfrog's note, Or pathless, sunless, thickets wher The growling wolf and grizzly bear On sought their secret hiding place, Now shan the hardy hunteman's chase, Give promied with spires and villas gra Give promise of a prosperous land The feate that scteroe dares to

Or where the Ottawa's Chaudiere Fonms headlong down her dread career, Evest there has art propumed to swidg A bithwas ooer tho appaling thlng,

To trace on earth and air and water, The mighty power of mind o'er matter And soon as man's contentions cease, Prounhecome the home of peace, rela

Then on thy wavy waters blue Where leaps the dizzy bark calue With snowy sails set to the breeze Shall commerce ride thy inland seas To bear thy surplus treasures hence, To lands less blest by Providence. Yes Canada! thou art the clime Of promise for a coming time, For half the ills mankind a cure

For thou as other lands grow worse, Art still the land of blest resource, And lavish nature seems in thee, To sport in vast immensity Thy streams are rivers, and thy groves, Are forests, where the moose deer roves Thy rivers are like lakes, thy lakes And foams white as beak, Thy tempests do not howl, but rave Like maddened fury-till the wood Bends neath its :age--trees that have stoo a thousand winters, are Lurled forth, And strewed in fragments o'er the eart Thy fork'd and sheety lightning's blaze Lile the last conflagrations raya, And thy terrific thunders roar As if the mighty angel swore, That earth and time should be no more.

Thy very soil seems limitless Thy boundary, lines are but a guess. Are patches gineged by human hand But line nor chain e'er measured the Thou art as nature bade thee be

## For the Farmer's Advocate.

## LI'TLLE GIANT THRESHER

I have much pleasure in testifying to the general efficiency of the small Giant Threshing Machine Separator. I belipveI attended the first Threshing Machines that crossed the lines into Canada in 1834. I have worked and seen worked, mostly all of the Separator which are made and used in the Province, and am therefore competent to give an opinion as to the merits of the different Machines.

For my own use I would not exchange my Little Giant, "The New Dominion," for any I have seen. I can thresh with it (under fa vorable circumstances) from 250 to 300 bush els of wheat per day. An ordinary day' work would be about 200 bushels. Of oats I could hardly say the quantity. It would nearly keep two men busy carrying them away.
It can be worked easily with six horse and can do a nice sday's work with tour The grain is left fully better and cleaner than with an ordinary Separator. Oats are cleaned by this M ichine fit for market
There are no seives, canvass nor elevators to get out of order.
Indeed a more simple, compact and dura ble machine cannot be made. They are just the thing for a farmer's own use.
am yours truly,
' ROBERT COULTER

For the Farmer's Advecate

## WHO WOULD NOT BE A FARMER?

$0^{\prime}!$ who would not be a farmer, A follower of the plow; Which nature's God bestows.
No dread of sheriffe calls ha
No dread of sheriffs calls has 1
Of lawyers bills no fear ;
But indepandent his career
SOUTH MONAGHAN.

## rocate.

## HOW TO PRUNE GRAPE VINES.

1st. Winter Pruning is to be done in the Fall it the varieties are tender before laying them down; but if hardy, any time during the winter before the sap flows in the Spring, Shorten al leaders back to a strong bud,-take off all spurs and all the dead wood, and all old bark, ás insects'deposit their eggs underneath.
2nd. Pruning is to be done in the Spring When the yourg shoots (which are called leaders) bave made from ten to twelve joints, shorten every alternate one back to one leaf beyond the last bunch of fruit Besure to leave all the leaves and tendrils on, as they constitute the lungs of the vine. The remaining shoots or leaders may te trained in provided there is room for that pur-pose-if not take them out, close to the old cane The proper time for this pruning is from the 1st. week in June-ta the 1st. week in July, according oo the season.
3rd. Pruning will be to shorten all laterals or side shoots back to one joint from the leader, leaving one leaf. This small part of the Jateral is called the 1st. spur. This pruning should be done from the middle of July to the 1st. of August. 4th. Pruning is to shorten all 2nd. laterals back to one joint from the 1st. spur, leaving a leaf on it as well-then you will have hree leaves-that is, the leader leaf, 1st.spur leaf, and 2nd. spur leaf, which must not be louched. This pruning should be done from the latter end of August to the heginning of September. There are extra prunings required in Vineries and occasionally in other places where vines are very thrifty, which must be done in a similar manner to the third and fourth pruning.

HOW TO PRUNE RED AND WHITE CURRANTS

To make them extra fruifful, thrifty and longer lived one pruning every year is necessary, which should be done in the winter season. Shorten every young shoot on the bush back to wo'or three buds from the old wood, and let the cut be close to the last bud. Take out all dead wood; balance your tree, and if not all on one stock thin some of the weak suckers out.
How to Prone Black Currants.-Sherten very young shoot one or two buds back, as black currants always fruit on the young wood. By so doing it always encourages the growth of young wood, and makes the fruit and trees better and healihier. Gooseberries sare pruned in like manner.

CHAS. BAKER,
Landscape Gardéner and Nursery Man.

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1 lb. Quebec Wheat, sent post paid.... 25 c .
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lb. Fife. .15 c
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Express, 41 send these Peas per Rail or
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lib. Prussian Blue.
.15 c
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The above grains will be put up in cottof
bags to mail safely. This will afford an op portunity to persons in any part of the most suitable for their locality. Common seed, as procured in any market in Canada can be supplied in quantities at a small ad vance on cost. A large list will appear in vance on cost. A large list will appear in and should contain stamp if reply is required Address Wm. Weld, London.

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 two roliers, finely groved by machinery; one roller tra
velling farter than he the other, causing a grinding motion. They are est to to trind ooarre or or fine by means of an ad. juating sorew. The foed roller it exactly adapted to
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plants, but on no acoount to cume directly in contaet with the seed or young plant.

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