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Efte fitld.

## The Hydraulic Ram,

Abcndlyce of water is a great acquisiticn to a farm and scarcity of it is a serious drawback. This is, generally speaking, a well-watered country, and there are few estates which cannot, by some contrivance or other, bo furnished with a plentiful supply. It is, however, a somewhat laborious and troublesome affair when all the water needed about a farm has to be raised from a deep well. If a large quantity of slock is kept, watering them becomes a serious item in the daily labour. Indeed we have known cases in which want of water, except at the cost of constant pumping, has been urged as a reason for not keeping such a number of animals as the farm really needed, to consume its forage products, and provide manure. The best pumps are tedious affairs. When you have to raise a large quantity of Fater by hand, and as to windlasses and "old oaken backets that hang by the well," they are indecd
|lnowledge. Well-digging, when it is aecessary to go down any great uistance, is erpensire work, and is accompanied with more or less uncertainty as to striking a good vein of water. It often happens that

after a considerable outlay has been made on a well, the supply of water fails, and it must either be sunk farther down or a new one tried in another spot. Settlers on land and purchasers of improved farms,
atances do not forbid, a wise economy of time and labour would dictate such a location of them.

We have received some enquiries in reference to the best means of obtajoing a supply of water from an aljacent apring, which we cannot better anmer than by describing and recommending that ingenions machine known as the hydranlic ram. And at the subject is one of much importance and of very general interest, we present our readers with some illustrations of it. By means of the contrivance just named, a small stream, brook or spring may be made to force itself to a very high point, whence the water may be distributed at pleasure, to return finally to the source whence it came. The improved bydraulic ram will raise water ten feet for each foot of fall. Its operation will at once be understood by a glance at the accompanying engravings. The suall one at the top of this page explains the principleapon which the ram is constructed, and shows its mode of action. Suppose that the water from a barrel be required to be carried to a cistern at the top of a house. A pipe, a, is laid from the berrel to the ram, and to a valve beyond it. which is
slavish institations. Windimills havo been extensire!'y used in some oc:lities where water can only be got by lifting from a considerable depth. They are becoming common on the Western pralries, and are found to answer rell. We hare observed an advertisement of a self-acting cattle pump, made in London, C W., int cannot speak of its merits from
do well to have on cyo to the water supply, for it is a matter of no littlo con' :queace. In the choice of sites for the dwelling anc barn-yard, the question of water conveniencus ought io be taken into consideration. Tbere are $\cdot \frac{n}{}$ mas. farms crecks and springs that may bo turne 1 to most uscful account by locating the buildings near them, ind where other circum-
fprced down and kept open by the weight, T. The water rashing down the pipe, a, acquiren momentum, and striking against the underside of the valve, S , closes it. The course of water is stopped, but the momentum cannot be so canily overcome, therefore that part of the column nearcst the barrel still endearours to escape, and as it cannot do so
through R , it opens the valvent, in the ram, and rushes up the pipe $X$. The momentuun ceasen, and $S$ again opens, and allowing a fresh flow of water, occasions the former impulse to be renewed, and more water to pass into X . So rapid is the action of this machine, that the ralve $S$ is in continual ribration, and an incessant stream of water is produced.
The large engraring on our first page, slows how a stream of rater, dammed up to form a pond, may be made to drive a ram and supply a dwelling and bara-yard at a considerable distance. As already stated, cach foot of fall will count ten feet of an cleration in the delivery pipe. The rolume of water furnished rill depend on the size of the ram. The smaller sizes deliver through a halfinch pipe, and this constantly fall and flowing, will supply a large quantity of water. The feed pipe must be larger than the delivery pipe, and in proportion as you increase the size of the former, you may enlarge the capacity of the latter. This machine is not expensive. One capable of throwing a half inch stream will cost about $\$ 9$. In adaition there is, of course, the expense of the pipe, which will depend on the distance to be accomplished. Either lead or iron pipe maybe used : the iron is best. Tooden tubing is sometimes used, but metal is considered better. The hydranlic ram is not very liable to get out of order. It goes regaraless of the reather. Eren sercre frost does not stop it. The pipes need to be laid below the reach of frost, but that isthe only precantion requisite. It is well to be at a little trouble and expense to corer in and protect the ram, as illustrated in our large engraving, hut this is not absolutely necessary.


Our third engraving will show how simple and cheap an arrangement will answer the purpose, and may serve to remove the objections of those who think they cannot do anything very elaborate and costly. The hydraulic ram is a very useful and effective device for feeding ornamental jets and fountains. No landscape is complete without water in some form or other. Even a small jet is a very pretty embellishment to a place. Wo hope to live to see the day when gardens and ornamental grounds will be more common upon the farm. Why shoula beauty be so despised $\%$ It is as truly food for the mind as bread and meat are food for the body. When matters of taste and adornment are studied more, many a little creek flowing near the farmer's home, will be coared to disport itself in jets and fountains, and so add to the charms of the scene. There is no reason, moreover, why the farmer who has a good living stream, should not have his fish-pond, and raise fat trout for the table and market, just as he does fat chickens and ducks. Thus utility and beauty would be combined.

We are not awaro whether ibere is a manufactory of hydraulic rams in Canada or not. Memsrs. Rice Lewis \& Son, hardware merchants of this city, are agents for an American firm by whom they are mann. factured, and have alravi a stock of them on hand of all tisea

## Hinta for September:

Fisal preparation of the land, and soring fall Wheat are the chief labours of this month. Let the ground be thorougbly mellow, clear of weeds and their secde, and, if possible, hare some fine manure to harrow in with the seed wheat. By all means use a drill if it can be procured. It is much better to do so than scatter broadcast. Timothy slould not be sown at the same time as the whent, whely it is intended to seed down the land. A fortnight later is preferable. Clover shouli be sorn as early as possible next spring. Sced wheat infected with sraut should be washed in brine and then aprinkled with powdered slacked lime and well stirred. Begin to give attention to hogs and other stock intended for the butcher. The mintake is often made of acferring the care of fattening animale until too lute in the season for them to be fed to adrantage. Aatumn topdresing of meadows is a good plan if thers be any suitable manuro to do it with. There is a lull of work between grain harvest and the securing of the root and other late crops which may be improred for doing many odd jobs. Provision of proper shelter for stock, draining of swamps, clearing off meadows of scattered swoes and rubbish, picking out weeds from among turnips, so that they may not go to secd, repairing fences, soiling cows and cattle if the pastures are bare, ventilating and cleaning cellars, drawing out stone, and if there be abundance of this material, making stone fence. Corn will need harresting this month, and with careful preservation, the stocks will prove raluable fodder. Make time to attend the Prorincial and Local Agricultural Exhibitions, and be sure to take Fife and children, that all may enjoy an improring holiday. tet This is a good month for butter-making, and the winter supply should be thought of about this time. In the garden, with the exception of the never-ending fight with weeds, there is not much to do cxcept tho pleasing work of ingathering. Strawberry plants may be set out this month, and with careful hocing, weeding and watering, may be made to yield a fair crop next spring. Ground for new gardens or orchards should be well prepared in autumn by ploughing, manuring, and thoroughly mellowing. TFe recommend spring as the best time for planting out fruit trees in this climate. For bee-management in September, sce "The Apiary" department.

## Cultivating Wheat

Yoc want a dry, compact soil for wheat, in good heart, with lime and clay in abundance. There is little lack of these in most soils for raising the usual crops of the farm, especially of clay. For wheat, lime may be almost always applied with advantage. It strengthens the atram, and improves the berry. The mode of using it is, to spread it over the land atfer the last ploughing, at the rate of ten to fifty bushels to the acre, followed by the harrow. It is casy to apply it and will always reward for the trouble, with something over for the jears following, as it has a lasting effect.
If the soil is poor, nothing is 80 good as to turn down a crop of clover or peas. These not at hand, manure, Well-rotted, chould be used, or the crop abandoned.
Corn ground, any ground if rich, compact, and well-balanced, will produce wheat. This mach, homever, must always be borne in mind-that the soil be dry, dry throughont. Otherwise it will heave, and bo productive more of weeds than of grain. Wet soil should be drained, or wheat Kept orf; it is too valuable a crop to be treated shabbily.

It is not good in general to plough often for wheat, as it loomens the soil too much. It should, however, be sufficiently friable to work well with the drill. Of conrse, deep tillage is what in wanted for wheat, as it has many roots, and they occupy the soil above and below. A set near the surface, on the stem, extends outwardly; the roota from the seed extend downward ; and thus the full soil is occupied. Caltivate deep, then, and mellow.
Sow six pecks to the acre, that is, if you sow. The best crops are obtained by drilling - beat on many
to do where the drill is used. First and foremost, the land must be clean, or reeds rul apring up betricen the rows. Corn ground is therefore objec tionable on account of the bad tillage which that grain receires. Heeds get a chanco to ripen, and sow the soil before the wheat does-and nothing will hinder a crop of weeds. Cnless, then, you hare a choice soil, as you should hare, sow broadcast.

Clean culture reminds us of what we sart the past seasom, in trarelling through the Genesee valles. The culture of wheat there is carried on to perfection. Weeds are not seen-or hare not been nofar as our olserration extended. It ras cleaí soil, clean culture, clean in appearance throughout. Notting surpassed the beauty of thene wheat ficlds. And so should it be here. It venedls there, and it whi here. Drilling has been practiced In Geneseo for many years-and is an established thing, superior in many respects to the old mode. In Obio, and in mont ol the wheat-growing States, the advantage of draling is understood-and the litile roms, thick and clean, show the superiority over the old mode.

Wheat is sorn with us from the 16th of August to the 15 th September. The best time for sowing i: much depending upon the season that follows, the weather, and the location. Each must run his oxin risk.-Jiural World.

## Preserving Potatoes.

Ir gromn in a lime soil, or with some fertilizes containing lime, as wood asben, or some compont of Fhich lime is a part, in the bill, wo have them in perfection. What iully not to preserve them in the same perfection, the year round, or at leant till the next year's crop is ready to talie their place, if this can loe done. 1but can it?' Yes.
How 9 Look at an often obserred fact, and you will hare the secret. When a tuber is left in the soll over winter, if not too near the surface, where it will frecze and thar too many times, it is always found when ploughed out in spring, in a fine state of preservation-not wilted-sound and hard as in autumn-cracks open in boiling-has all the mealiness and fine flayour of the provious October-in short, has retained all its fine qualities unchanged, from Octover to May. It is always so with tabers thns wintered, as thousands have observed.
Now let us look at the attendant conditions in Which these tubers have been so finely preserved. They were not sunned. Some think it well to let potatocs lic under a scathing September or October sun, fire or six hours, before storing them. They could hardly do a thing moro calculated to hasten a detcrioration. Erery moment of sunshine on potatoes, when harrested, injures them. They were mot aired, When harested, injures them. They were not aired,
for being left in a soil, compacted by the fall raing, little air could circulate among tiem. They were in total darknese all winter. They were moist by reason of the fall, winter, and spring rains and melting snows. They were cool, nearly to the freezing point, and sometimes below it. They have then coolness, moisture, darkness, little air and no sun as the attending circumstances, or conditions, of their perfect preservation. If this does not teach us a lesson, it is lecause we are not quick to learn.
But there is another fact, tending to the same conclusion. There are farmers, who, for a long series of Fears, haro practiced as follows: dig their potatoes late, carry them at once to the house, damp them through a side window into the cellar, with all the soil that naturally attaches to them, and then let them bo till wanted for use, a part of them as late as the following Junc, taking care to keep the cellar windows open fall and spring, and to open them in mild weather, during the whole winter.
It happens that those which fall near the window retain most of the moist soil that falls with them and are almost as completely imbedded in earth as are the stray tubers left in the field till the apring ploughing. Now if that portion of the ycar's stock, which is thua
embedded in the moist soil be left till the last, these are found by many ycars experience, to remain freah and good, harily at all wilted; eyes hardly swelled till about the first of June. This implies a cool and damp cellar; and when these points can be obtained, there is not the least dificulty in a perfect prewervation of the potato till as late as from the let to the 15th of Junc. The conditions, if we look at them, will be found to be neariy tho same as in the other case, - no sun, little air, little light, moisture, coolness.
Now it cannot be necessary to describe minutely how these conditions can be secured, for the potatoes Fou would preserve in all their autamnal excellence, for spring and summer use. Let erery one device the
best method for his own cuse. One who has a cool, damp cellar, so fitted with window that he can eatily keep tho temperature low at all seasons, may fac that the best place to pack away potatoes for riprocs
and summer use. Another may find it better, in his case, to bury them, mired Fith moint poll, in the earth. By throring an extra quantity of straw over them in winter and so covicring them Fith shraw or chate. that the - 7 will not that it till late, ho may prescrre them almost at pleasure; for so long as the ground in which they araimbedded is kept cold, they will neither grom nor will, nor will thes lose any of the fine qualities they had the previous sulumn. If the potato hole were on the north side of a building, or if a temporary stricture of rough boards sere placed orer it, to keep off the sun $;$ either of these Fould be a belp. I pill only add that if those who hare a fine crop of potatocs will deriso some way to protect them from the sun, air, and light, from the moment they aro dug; and to keep as many of them as are designed for spring and summer use, cool and as are designed for spring the summer use, cool and moist their account in it."一Prof. J. A. Nash.

## Deep Fall Ploughing of Wheat Stubbles to Extirpate the Midge.

To the Fidior of Tae Caisda Faryea:
Sir,-In Tur Cavida Fanyer of July 1st, we hare a sketch of "Wheat insects," including the midge, its greatest foe. Among the remedies to destroy the midge, are to carcfully destroy the worms that pass In the screenings of the fanning mill, "and deep fall ploughing of wheat stubble." Would not spring plonghing do as well: To adopt the remedy of plonghing the stubble, farmers one and all, should, commencing next spring, quit seeding to clover with Wheat, and seed with oats, barley, de. Seeding with clover on wheat in the spring, is generally adopted in these parts,-and it might require a good deal of agitation to arouse and creafe a will in every one to quit it. Wheat is our great staple, and the loss the country has sustained is very great. I recommend that all newspapers, farmers' clubs, infuential men, \&c., make use of their united infuence, with the powerful aid of Tre Caxada l'aryer, in pursuading a:l farmers to try the experiment of deep pall ploughing of wheat stubble, and to carefully destroy the midge worm that passes in the screenings of the fanning mill. The subject ought also to be seen to by our legistature, and county and township councils. In some places in these parts, but little harm has heretofore been done by the midge, but it is on the increase.
We have had light crops, or rather small yields from other causes. A sort of blight seems to affect my wheat, in spots, this season. I never had it 80 before, and hare heard the same opinion from others. Wheat will not be near the yield thint has been Wreat will not be near the gield thint has bed.
F. EMIMM.
Ciariotterille, Aug. 6, 1865.

## Qualities of Hay.

Tmorny for muscle; clover for milk ; corn for fat. The timothy sbould be cured in fall blossom, or a little later. Clover should bo cut when first reddening, before is is fully matured. This is the time, and the only time to cut clover. Then all the nutritive juires are in perfection. Such bay-or grass cured -has a slight laxative tendency-just what is wanted in winter. It will be grcedily eaten, even when somerhat touched with mould-and give milk in profusion. This never fails. On tho other hard, timothy, instead of secreting milk, will form muscle ; hence, the hay for horses; and benco preferred no gencrally. Straw, when carly cut and properly cured -not dried-has somewhat the quality of clover. But oh, how neglectful we are about the curing of straw, when it is one of the fiaest of employments. Tbere is a fragrance about such straw, and tho palegreen tint, which make it a valuable and most pleasant fodder.
Timothy, then, for horses; clover for milch cows ; and straw, well cured and cut, for cither. It is excellent to mix with meal, or feed carrots and beets with. We would, when thus fed, make but little diference between good barley or even oat straw, when early and properly cured, alld timothy for stock, capecially cons in milk. For joung stock, tender timothy is excellent. We are so reckless in feeding. We feed promiscuously-wo feed what we have to feed without taking much pains to get a proper selection, or to preparo it well. lor instance, wo feel fow corn-
stalise, raised on purpose for fodder, when yet this is stalks, raised on purpose for fodder, when yet this is
one of the cheapest and one of the bent hays that can be fed -and in tho summer, in a drought, it is of the greatent alpantage. fed nut green.--Euinal Woid.

## Shade as a Renovator of the Șoill.

We have frequently taken occasion to state the fact, that the rapid deterioration of our soils tais been brought about quite as much by the too frequent use of boed crops as by slovenly culture. Plant a piece of new and fertile land in tobacco, corn or potatoes, for a fery years in auccescion, and it will begin'to show evident signs of exbanstion. The abundant quantity of potaoh and soda and the phonphates, Which the land originally contained, will be lesecned to a degree that cannot bo accounted for by what bad been carried away by the crops that have been harvested, for the actual annual amount of low from this source is comparatively small. The loes, then, must proceed from some other canse; and a very little refection- will satisfy any intelligent person, that the trae theory of a rapid exbaustion of a naturally rich soil is the loss, by evaporation, through the exposure of the nalced surface of the soil to the ardent rays of our summer sun and facilitation of the procese by the constant stirrings with the plough, the shorei plough and the cultivator, which the proper cultivation of all hoed crops requires. The lightening of the soil ; the incessant turaing up of fresh earth to the action of the sun's rays; the energetic chemical ac tion within the soil itself, which is thus produced, and which renders soluble the potash, the soda and the phosphates it contains-these are primary causes that lead to its imporerishment, and which the loss of organic and inorganic constituents, by cropping tise land, has but a very small share in producing. Let is illustrate our meaning by an example drawn from history. The rast desert region that stretches from Cairo to the Red Sca was, ages ago, the seat of an enornous population, and of citics whose extent was of almost fabulous proportions. It was, at that re mote period of the world's history, celebrated for its fertility. Its groves, its gardens, its meadows, its arable lands, were spread ont into the interior for many hundreds of miles. It is now a sandy, barren, waterles; desert, erincing no signs of fertility, except along the narrow strip of land which follows the course of the Nile, and winich is nourished by the annual overflow of that gtream. What cansed this change $t$ What but the stripping the land of ite groves-the constant cultiration of the land under a burning sun, and the drying up of the springs and fountains by which the soil was molstened and fertilized. Mere, with us, we suffer from similar causes, although, perbaps, in a !ess degree: As our forests are felled, the streams they once sheltered and inourished diminish in value-the springs run dry and the soil gradually becomes more arid and less fertile. As if to aid this procesis of degeneration to the best of our ability, we cultivate our lands to an enormons extent in hoed crops, and thus by evaporation and by washing rains perfect the work of destruction. Is there no remedy for this ! Undoubtedly there is, and quite an easy ose, if we would but adopt it. We cannot well prev int the destraction of our forests and the consequent diminution in the volume of our streams; althoug h many earnest voices have already been raised in dipreciation of this act of van:긍m, and in explanatic is of its injurions results. But, if Tre cannot stay the roodman's axe, we can, at least, so modify our systrin of farming as to preserre our arablo lands fron. exhaustion. It can be done in this wise. Everybod. Enows that the poorcst lands re corer, at least siortion of their origiual fertility, if when they are tu jed out to commons, they grow up again to pines an 1 bushes and black jack. The fallen leaves afd pine e jatters and thosheleer from the sun's rays effect this ctange aft re the lapse of a few jears. The same reanlt $-\Omega y$ bo uore quickly accomplished on our arable las ds that are still in tolerable condition, by uvoiding hoed crcps as much as possible, and by seeding them lown mure frequently to grass and clover. It is sl ado and rest they require-shado Which is itself a fertilizer. and rest which enables the soil to recupera e by i' ${ }^{3}$ chemical action that is always going on rithin i Shado and moisture are thus given to it; the lapr. is kept cool eren in the heat of summer evapo.ztion and waste aro thas aroided, and by the 00ctijional tarning in of the sod thus formed, or of a clover crop as it sdvance requirs is restored to it, and by a recurrence to the require is rearorcl to it, and by a recurrence to the of manures drawis from the barnyard or collected in the form of composts from the resourcen of the land can be kept in good heart from generation to genia? Intion--MGryland Earmer

Nori a Bio Torl.-An agricultural bhow has just been held in Algeita. 'The prize list, was protty wide in its scope, as it extended to the best dunghill. fierro Mibert brought his sample in fifteen carte, and said he had more at home; but the jury arrarded him 200f, and assured him in their report that he might contemplate Fhat he did bring "With legilimate pride."
Prolific Ccoter Roor-Mr. M. C.Peck, of Benson, Vt, writes to the Bural Nab Yorker:-"I havo jnat found a curionity in in clover root-one root from which grows 42 stalks and 752 blocooms, all matured. When grown in the feld the plant measured 4 feet 6 inches in diameter from the extremitien of the branches at they apread out on the ground. Who can beat my clover:

Clrrots-Sow so as to Mow Ter Tore-Lijman Harrington, of Bennington Co., Vt., witen to tho Agricuiturist:-"Many who ralned carrots cut the topa of with a knife, which takes much time. To aroil this the ground should be made very mooth When sown, and kept so, and no stones left all - it When ready to dig, let a good mower cut one twath (sayi 4 to 6 rows), rake of the tope, bearing hèirily on the rake. All remaining uncut will be drawn or lean one way. Then baving his scythe verys sharp, ho can casily cut what remaias, by aliding tie point of the ecythe close to the ground by the alde of asch row. A skilful man, used to It, can cut and dis trom 50 to 100 buabela per day. I have practised it for inany years; with mach seving of time."
Trees a Protrction aonnst Lngrots.-In an arlicle on this subject in a recent issue of the Proirite Farmer we find the following suggentive observations: trifere is litie new in the statement thatinjorioun insects are rapidly increasing both in variety and number throughout the West. The cat-worms, potitobugs, chinch-bugs, etc., etc., are becoming almont intolerable pests. While we are wll canting about to find some security against their ravages, we ahould not forget that there is one means already known and casily broaght to bear, that wo do not, as a genersl thing. give sumcient force. It is the planting of trees: If all our farms wers dotted orer with screans, belts and grover of timber, the birds, among the mont do diructipe natural encmies of noxious insecty, Foold be lured to the prairies that are scarcely visited by them now, and in return they would prey apon ons enemies, anuigreatly lemen'their numberis Ouctanly the adrantages thus accruing are not among tho lant of those arising from a general planting of trees on the prairies."
Ferturts.-From an arlicle on this subject in the Agriculuural Gazette, we cull the following:-D Doel fertility depend on the consistence of the soil, we can parl light lands, wé can burn clays, we can hapdion by the sheepfold and the roller, fe can lighton by the scarifier and the plough. Does it depend on foll opportunity being given to rain water to traverze soil and subsoil and feed the roots of plants, we cian by underground channels which carrj off the wäter as it sinks, preserve its continual circulation throughout both. Does it depend on tho natural contente of the land being filted for the food of planta, we can lighten by the scarider and the plongh. Does it deperid on full epportunity being giver to rain to traversc soil and subsoll and feed the roots of piants, Wo can by underground channels which carry off the Water as it sinlss, preserve its continual circulation througbout both. land being fitted for the food of
contents of the land plants, we can lime, and burn, and till, introduce the natural agency of air and rain, and the artificial agency of lime and heat, and thius stimulate that chemica action- within the soll on which the preparation of food for piants depends. Does it hinge on the supply of additional fertilising matter, we can add thete matters directly from the dong heap, the manare manufactory, and the guano hip, or we can sad them indirectly by feeding sheep and catile on the land upon imported food. Unquestionably, fertility
is to a very great extent a Fort of art. This is not less is to a very great exient a Fork of art. This is not less
true on natural and shallow soils, where no such extraordmary change has to be efrected in the original character of the land before it will Field good crops, than it is in the fens of Lincolashire and Cambridge, now laden with rich grain cropt, and herd and focks of cattle and of sheep, where the natural fortillty Fielded formerly but bedge and rash, and bog and tondde plaits, with ohly wild fowl for the
lire mock:"

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## On the Care of Cattle.

This is the title of a valuable article in a recent issue of the Scottish Eurmer, the main points of which we propose to lay before onr readers in a condensed form. The moral view of the question is most sug. gestively stated in the text, "the righteous man regardeth the life of his beast." But further than this, there is an excecdingly close relationship between the humanitarian aspect of the case and the pecaniary interests of the farmer. That the fact is frequently overlooked does not mako it the less marked. The popular notion that the stock of our farmers are hardy and able, as the saying is, "to atand anything," is most fallacious and dangerous ; for it lies at the root of mach of that careless practice which is the cause of so much disease in our farm stock. It is satisfactory to remark then at the outset that the interests of science and of humanity are coincident. "To begin at the beginning:" says our able contemporary, "carelesoness in the treatment of calves maybe taken up. Almost from the first stages of the animal's life many peem to consider more the saring of food and trouble than the importance of having a irstrate animal Ctterly forgetful are many of our farmera, that the great object to be aimed at is the progressive improcement of the animal. The growth is a constant process, and ercry means should be taken to aid it in the healthiest ray. It is obrious enough that this cannut be done by lessening either the quality or the quantity of its food, or by being careless as to the shelter provided forit, and the healths exercise it is necessary it should hare.'
Breeders and feeders, as well as doctors, differ in opinion as to the best mode of management. One adrocates the importance of allowing the calf to sackle its mother. Another as strongly opposes it. One, while not insisting upon the calf drawing its sapply of milk directly from the mother, yetingists that the milk should be its principal food in the earlier f'ages of its life. And again another as rehemently maintains that milk may be good, but that artificial food is better. Without entering into any analytic consideration of these various modes the articlo proceeds to state that "One thing is certain-the habit of stinting the food, of whaterer kind that may be and how given, is utter's vicious, and sure to resolt, as it does result, in a poor animal, poor both for breeding or other purposes. For it should never be forgotten that if the animal is once let down in con-dition-as let down it assuredly will be if food is sparingly given to it in its young days-that that condition will never be made up again ; of the certain paces in the race, so to speak, which are lost, a few may be regained, the whole never. Let it be taken as an axiom in the art or science of feeding, that to gain the desired end, the best animal that can poesibly be got out of the calf with which the reeder begins, is to keep up a progressive improvement; the adrantages of to-day retained to be added to those of jesterday, to which end not only must the kind and the quality and quantity of the food be attended to, but the circumastances nader which this food can best give out its good qualities to the animal. This will never be done if proper houting be not propided, in which ample room, pure air, and thorough cleanliness be attended to and secured. Good erercise ground in the shape of ample apaced yards should also be provided."

With regard to the housing of calves, good, clean, swect bedding is highly essential. Damp, sloppy bedding, induces disesses, (which often pazzle the farmer; and there can be no doubt that dirty bedding tends to increase the plague of lice "to which calves are even under favourable circumatances too liable." The popular notion, which incuicate the necessity for what is called "hardening" or "roughing" of young stock, is in its effect highly perni
cious. It has the effect of reakening their constitutions, and if purned tomards the young stock for tro or three generatious will ruin the best breed of cattle in the country. The offspring after this time will hare lost nearly all the qualily, early maturity, and propensity to fatten of their ancestors. It may be dimeuit to persuade those who uphold this practice to gire it up on account of its cruelty, "but if they for a moment considered the whole bearings of the care they rould give it up an account of its Frastefulness. The school-master, they say, is abroad; rhen, may we well ask, will he risit in his wanderings thone districts in which cattle and young stock are seen shirering in snow-corcred or frost-hardened fields, or exposed to biting kinds or dashing rains, and all to with scanty supplics of food, to tell their owners that heat is food just as food is heat ; that there is a close relationship betreen the tro which cannot be severed, as serered it too often is, without heary lose heing incurred? Nor rould the labonrs of the schoolmaster in such districts be thrown array if he supceeded in instilling into the minds of sume of
their inhabitante, that in the case of catte the teachtheir inhabilants, that in the case of cattle the teach-
ings of an colightened bumanity, as well as those of an enlightened agricultural ecience, are at one in inculcating those principles of action which are best calculated to secure the comiort, as they are calculated to secure the paying point, of our farm stock.

## Where Fat and Flesh Come From

Ther come from the earth and the atmospbere, collected by vegetation. Grass contains flesh; so grain. The animal system puts it on from these Vegetation then is the medium through which the animal world exists; it can exist in no other way When grass or grain is eaten, the flesh constituents are retained in the system; so also the fatty substance that is, the atarch and sugar, from which fat is made. Some grains have more flesh than others; so of the qualities that make fat. In a hundred parts of wheat according to Piesse, are ten pounds of flesh; in a hundred parts of oatmeal, nearly double that amount Hence oats are better for horses, on account of their fesh-forming principle, rather than fat, as muscle is what a horse wanta. For fattening purposes, how ever, corn and other grains are better.
When fiesh itself is eaten, the system but appropriates Fhat is already formed, but would as reauily take it from vegetables, from flour.
The flesh-making principle-or the flesh itself, in its constituents-goes to form cheese in the dairy; the starch, dc., ? itter. Hence it is that some people assert that cream has little influence in cheese, farther than to enrich it : for ciueese and butter are entirely diatinct. The amme kind of food is equally good for the production of either. This is a point of consider able interest, and is not yet fully explained-indced it is yet in its infancy. And a plant in its different etages of growth bas a different effect. The fat of the plant is held in rescrve for the seed; nothing is wasted in leaves, wood, \&c.; the precious seed mus have it. Heace when this takes place, the stalk is comparatively worthless to what it is prior to the change. And the fat canvot be appropriated so well in the seed as when it is diffused through the stalk Tender herbage, thereforc is the best; and when secured before the direction of the oil takes place so much the better will be the hay.-Rural World.
A. Pia's Contentence.-An Irish peasant being asked why he permitted his pig to take up his quarters with his famils, made an answer abounding with satirical naivele. "Why not? Doesn't the place afford every convenience that a pig can require?"
Horses Feedlno One Another.-M. de Boussanelle captain of cavalry, in the regiment of Beauvilliers, relates, in his "Military Observations," that an old horse of his company, that was very fine and full of mettle, had his teeth, all of a sudden, so worn down that he could not chew his hay and corn ; and that ho was fed for two months, and would still have been so, had he bcen kept, by two hormes on each side of him, that ate in the asme manner ; that thees horses drew hay from the same rack, which they chowed, and arerwards threw before him; they did the same With the oata, which they ground very small, and also
pat before him ; this," gdded he, "Was observed and patberore him; this, added he, "Was oberved and witnensed

Wory Discask in Gattle.-An exchange atates hat " $\Delta$ ncw worm discase is raging among the cattlo in Pennsplrania. The rorms get on the back of the catlle and cat their way into the feah. The animals are greally troubled Fith the aftiction, and roll orer the grass as thoughingreat agony. Sometimed, Fhilo grazing, they start oftsuddenly and run wildly orer the meadons, as thungh suffering intensely.
To Pbetent Bulls Turofina Fexces.-Fasten a button securely to each horn; then take some large annealed srire, make a loop large enough to pass a small rope through, and fasten it around the horn close to the button, one on each horn. Take a snap, such os nre used to place in a bull's mose, put it in his nose, tie a small rope to the snap, pase it through the loup on cach horn, and back again to the snap, and fasten securely. Mr. Bull will Falk up to the fence, but will slop before he gocs through, on account of a slight pressure on his probotcis.-Corres. pondent of Co. Qent.
Lithut iv Stabres - It is a great mistake to con struct stalles without light. It is necessary both for health and comfort. Repeated experiments show that liscaso is mach more frequent in dark than in read of the medical staff in the Rusian army state that cases of disease on the dark side of an extensive barrack, were uniformly, for many years, in the proportion of three to one, to those on the side exposed to strong and uniform light. Humboldt has aluo remarked, that the residents of South America, who Wear light clothing - thus allowing a free ray of light to the skin-enjoyed immunity from various diseases, which prerailed extensirely among the inhabitants of dark rooms, and underground locations. "Light, therefore, is a condition of vital actirity, and in fiew of preserving the sight of a horse, it is necessary that he hare frec access to the sun's rays while be is tho habitant of the stable."-Rural American.
Tie Tord "Styuetri" es Applied to CatshenBell's Mressenger enlightens a correspondent on the proper use of this word as follows:-" "Rugby' is informed that the word symmetry, when used with reference to cattle, as it is often used, to expreas neatness and smallness, is used improperiy. Neatness and smallness constitute no part of the idea represented by the word. They may or may not consist with symmetry, but they are not symmetry. Neither would it be quite correct to say that symmetry means proportion, though it does mean proporcion; but it means proportion in connection with the balancing of parts against one another so as to produce correspondence and equality, and is not necessarily, as to primitive meaning, of a complimentary character. Medical men use the word in the sense of coincidence, thus: if a patient's right eye is affected with some disease, and the left eye becomes also affected, that is symmetry. The one organ is supposed to sympathise with the other; and symmetry, or the coinciding of parts, is the consequence. Here we get the idea of balancing. In this way Abraham Tucker evidently uses the term when he says--symmetry gires despatoh to the cye by enabling it to take in objects by pairs.' But a passage or two from one of the most interesting scientific works in the English language, Dr. Roget's "Animal and Vegetable lhysiology"' (Fifth Bridgewater Treatise) will perhaps put the matter as plainly as it is possible to put it within the space of a short article. "In these "two classes" (annulose and vertebrated animals) is ' remarkable law of symmetry obtains in the forma-- tion of the two sides of the body, which exhibits the lateral junction of similar bat reversed structures.' - In vertebrated animals, all the organs which aro snbservient to the sensorial functions are double; those on one side being eractly similar to those on the other. We see this in the eyes, the cars, the limbs, ajd all the other instruments of voluntary motion ; and in like manner the parts of the nervous system which are connected with these functions are all double, and arranged symmetrically on the two sides of tho body. The same lavo of symmetry extends to the brain; every part of that organ, which is found on one side, is repeated on the other, so that, strictly speaking, we have two brains, as well as two optic nerves and two eycs.' The etymology of the word symmetry conveys the idea of measurement; but the analogy between balancing and measuring is close. Gencrally, and in ordinary intercourse of langnage, the word signifies coadaptation of parts. - Rugby' will sce (and this is chiefly what we have to assert) that it is independent of size. A symmetrical object, an object whose proportions are well balanced, loses none of itssymmetry when seen through a magnifying glass ; neither doef a colossal object whose proportions are characterized by incongruity and through a diminishing medium."

## Shecy 量ustrandry.

## Crosạing Sheep.

A Friter in the Agricultural Gazette makes the following remarks upon this subject:-
(Troseing rannot be allopled as a agotem without producing a variety of tipn, form, anil size, which makes a tlock, as a fock. noi only unsighlly, but unat for breeding purposes, and consequently lending to the very contrary of that which il is desired to further and to recommend 17 may be laild down as a rule that every ewe lamb that falls should bo fitted to be the mother of future generations; we may becontent that in such a matter the exception shouid prove the rule. Take one of the sery best instances in faror of this practice, in one of the last recognised crosess, whowe fixity of type has so far been allowed as to claim a recognitionas a separate class in the prize list of the Koyal Agricultural Socicty-the Oxford Down. In oxilful hands, such as those to whom these prizes are awarded, a rery fine animal has been produced, and perpetuatel through many generations. and they have justly established their claims. But it will not bo denied that the peculiar features of the oripinal alock which farnished the cross, tho Dorn and Coterold, ara too apt to show themselies, so much so, that great dimculty is experienced in keeping these effects within bonods, and it is said on good authority that rhen submitted to judgment, they are looked on as cross-bred sheep and no more. This is not said in disparagementor thisstock, which is generally allowed to be often 2 proftable and therefore useful class of shecp, but is spoken of hore as tending to prove the position that croes-brecding as a sjstem tends to lessen rather than increase sheep breeding. Turn from the breeders, whose names are to be found in the prize list of the Royal and other Agricultural Societies, and from their prize animals and splendid flocks, and go into the district which lies between the Cotswold Hills on the onc side and the chalk range on tho other, where the cross between these two breeds finds most favour. The first crose, as a rule, is confcssedly the best. The question now arises-what is done with the ewe lambs which ought to furnish nothers for future flocks?-us a rule the lambs are sold as they fall, and very generally are bought by
those who fat thein all. An an instance, a farmer of much experience sold 100 wether tegs at a market away from home, where they were pronounced the best sample of such stock (that is, tho first cross between the Cotswold and Down) that had been sent there. Contrary to his custom, he lept the ewes, and was tempted to breed from them; though his rams were well selected, the produce was of a very inferior character, and wisely lic returned to his former practice, crossing the best draft ewes of the Mampshire breeders with the Cotswold ram. It might be said breoding from the draft ewe is in itself a gain; sometimes it may be, but what is contended for is, that cven the best cross breeding leads to the indiscriminate sacrifice of the cwe , which in flocks like those of Sussex, Wilts, Hanis, Gloucester, Leicester, \&c., is not the case. The half-bred sheep just now is in great request, from the large price of wool and the fatting qualities said to belong to this class of animal. "Breed fron the best natives, cross for fatting," is a recorded saying of Mr. Frost, bailifir to M. M. George the Third, at a time when the first great movement in the improvement of sheep stock seems to have had its commencement; and the saying, founded on the experience of that day, is true doubtless now. The prectice of the Eastern Countics, so important as pheep districts, is escentially the same as that of the locality taken as an illuastration. There are many instances of gentlemen whose parks offer the best opportunity for breeding the Sussex Down, who have boen tempted to cross their flock, some with the Shropehire, producing at first at least a creditable animal; others using long-woolled or cross-bred (call them Oxford Downs) or other varicties, all leading in the same direction, prodncing ewes unfitted for the great purpoes of theirsex, the increase of their
kind. If the Dorset ewe is crosed with kind. If the Dorset ewe is crossed with a Sussex or other Down sheep, for the purposo of producing, rearing, and fatting ofr early lambs, the object is pat to the same purpose the object is under otood,-the lamb and the mother usually go together to the shambles, and the sacrifice is made to the lame various phases of practice is to give prominguce to a point not often noticed; and this is done with great confidence, because the increase of pure brecdpeneral cross breeding tends to the deterioration of ae stock-and furniahes such evecs as aro best fitted for increased production.
$3-$ Ar Eme Lavi at o:ie juar old produced thina; the second jear ahe again pmanced twing, the third jear triplels, the fourth jeak triplets; these last all eFres, each of which now has lambe. If that was not a sheep storys we should set it down as a Hish story, but sheep can do marrelious things in theae days.Ohio Larmer.

## Strange Accionmt-L. Peritine, a farmer, who was

 shearing sheep recently, says the Oregon Arena, met with a Berere accident. He had a habit of carrying his topgue betreen his teeth while at work. In chin, causing his teeth to close on his tongue, and sercred it, except about a halfor three-quarters of an inch. It was sered togetherby one of the men present. and is doing very well.Sabxr Fingexacs.-Eloquence has not entircly died out. The following is given as a verbatim report in the illinois House:-
"Yr. Speaker-T think sheep is par-amonnt to dogs, and our lak's hadn ${ }^{\circ}$ t oughter be so that dogs can cummit ravages un sheep. Mr. Speaker, I represent sheep on thisfloor. [Laughter, and cries of thatis so.] Cp where 1 live, sbeep is of more acconnt than dogs; and although you may tell me that dogs is useful, still I say on the other hand, that sheep is usefuller; and show me the man that represents dogs on this floor, and that think dogs is more important than shecp, and I will show you a man that is tantamount to a know nothing. Mr. Speaker, I am throagh."Kansas lianter.
Wrionts of Saeer Livd Firctes-The following are the live weights of the long-woll d breeds of sheep :-At tro jears old Leicesters weigh 120 to 150lbs. ; Lincolns, at a year old, 80 to 100 lbs . Cotswolds, at two years, the same as the Leicesters: Romney Marsh, 120 to 1401bs.; Ermoor, 60 to 701 bs ., at four or fro years of age; Herdwickes, at the same age, weigh 40 to 501 bs. ; Bampton, at two years, 120 to 1501 bs . Devonshire South Hams, at the same age 100 to 120lbs. The weights of the fleece of the above are as follows : Leicester, 7 lbs ; Lincolnshire, lowland 10lbs., uplands 8lbs. ; Cotswolds, 7 to 8lbs, ; Romney Marsh, 8lbs. $;$ Exmoor, 4 to 5lbe.; Merdwickes, 3 to 4lbs ; Bamplon, 7lbs.; Devonshire South Mams, 9 lbs. ; blackfaced Scoich, 3lbs.
Stranae Freit of Natcte.- TFe have to narrate a most extraordinary freak of nature which recently exhibited itself in the Township of Raleigh, in this county. Mr. Richard Cudmore, a respectable and well known farmer in that neighbourhood informs us that some two months, or more, ago, a ewe sheep belonging to him, gave birth to twin lambs, both of which are now living and well. The mother anckled these for some six wecke, when one day Mr. Cudmore missed her from his flock and pitied the lambs as they went hleating abont the field, Bat what was his surprise, however, when some two days later he discovered the lost ewe in the woods suckling a third lams of which it had just then been delivered! When brought again into the presence of her former lambs the ewe would have nothing to do with them, all her affection apparently being centred upon her third lamb, which, at latest acconnts, was alive and doing remarkably well! We think this is one of the anost ertraordinary freaks of nature that we havo heard of for many a day-Bothwell Peiroleum Reporter.
Deati of "Gold Drof."-The Middlebury Register of the 9th learns "that Irr. Hammond's best ram, 'Gold Drop,' died on Sunday night. This sheep probably had a better reputation than any other that ever lived. Mr. Hammonil could at any time for a jear past have taken $\$ 10,(\mathrm{u})$ for him. He was ralued at $\$ 25,000$. He will be siacerely mouraed by all sheepbreeders at home and abroad. He was four years old."

The figures quoted aloore require no comment to show the point which the "sheep fever" of the past three or lour jears has reached. Without dispating the fact that the price named might have been taken for this ram, or that the rahation pot upon him had can claim any basis on ruich either should rest beyond the current fashion of the day, and a most 3xaggerated notion, industrionsly diffused through the commanity, of the meris of the sort of sheep of
which the animal mentioned was an example. While sich a manua lasts, parapiapts hise the above attrace comparatively littlo notice; whin the mania is over and people git down to :ount be cost in the sober ight of ultimato returns, tI ese - fevers' and those who take part in inciting the $m, \cdot$ ppear anu are commented
man.

## lut ©airy.

## The Riaks and Profits of the Oheese Trade,

There seems to be a rery indistinct idea in reference to the cont of getting checse to Nem. Yort, and ready for the ahipperm. Under our present. Eystem of marketing it takes money and labour to forward our goods to the mea-board, and put them in the markets. It is quite a simple matter for a uisiryman to. sell 50 or 100 cheenes at the depot, or dairyhouse, and take his pay, ; be has only to deliverhis goöds at. the railroad depot, and atter that arerything is man-. aged by the dealers. If pricen adyance, large. gums. are made by those engaged in the trade; but if they decline, it goes the other way.
The cheese trade is an exceedingly risky bactase for dealers. They like it because the scales quickly. turn, and, like dealing in stocks, it has its, rister and excitemento. It don't take loag to tell Thether, a bad or good purchace has been made; only, a fey dajs are required to " wind or unwind the bobbin." Sometimes adrerse circumstances bear hard on the: dealer, and he is thousands of dollarm worse than nothing, he kecps ap good courage, however, and like the stock broker, commands a mailing lace though his heart is sad, until a streak of sood luck seta all right agein.
More has been lost by dealers in the cheeso trade than has been made, and yet so attractive is the business that the numbers operatiog increase rather than diminiah. In old times farmers took the risk, and every few years large losses in the aggregite Were surtained. Recently farmers sell only for cash on delifery, and no respectable dealer asks now for a moment's credit. To ask credit would at once create suspicion among producers, and parchases could not be effected.
If cheose is selling at 15 cents at the depot, it should sell to the shippers from the New York houses at scventeen cents, in order to be a paying business all round. The eatimates are as follows:
rates given by country buyers for purchaving


Groe frelght to Now Yo
Fright on boxes.....
cooperase, (average)
tiverse shrinkago on boxee, and loes on welght on incorrect
tamps, postage, and intereat on moneya between time of
Now Yor mopey collectod.
or
Tolal, .......................................... $\$ 2.00$
or two cents per pound by the time it reaches the hipper's hands.
These are the charges which are made when cheese is sent on commission ; so it will be seen what farmcrs may expect when cheese is disposed of in that Tay.-Ulica Ilerald.

## Oheese Making from a Few Cows.

"A Farmer's Wife," of Guerasey Co., Ohio, sends the following account of her simple method, to the American Agriculturist: "Cheese making is mome profitable thai butter making in the hot sumine months, for those who have not a good place to sei milk or cream. We seldom keep more than four cows ; and from that number we make a cheese daily, weighing from 8 to 10 poands. The morning's milt is strained into a kettle with the night's milk, and warmed. Then, after having the rennet-soakert a day or week previous, pour in as much as will cardle it in 15 or 20 minutes, but not sooner, as too mach makes the cheese dry, and apt to crack. A little experience here, however, is all that is necessary, aj rennet to the quantity of mils, ofving to the great difference in the quaity of rennet. Stir it together, and when curdled, let it stand fire or ten minutes. Then cut the curd in slices with a knife, about one inch thick, and cut crosswise in the same manner. Place the kettle again on the fire; put the hand in down to the bottom, stirring it gently, so as that the whole shall be heated evenly, considerably more than milk warm. This will separate the whey from the curd. Remove the kettle from the fre, and let it stand a minute. dip, or pour off the whey on the top, and poar the curd into oa large butterbopl. Salt to suit the taste. Then cut fine with a knife, and put it in a crock, and net it in a cool place. If you have not such a place, put in salt enough for ${ }^{-7}$ next curd, which will preserve it until the next m: ni--
ing. Then malre another curd in the same way, and
mix well together, and put to press. I prefer this method, for tro reasons. First, Yhule making checse, the family can le provided with milk and butter. Secondly, the checse neetis some atiention aftor put ting to press, which can better be attended to in the morning. I use the lererpress in preference to the ecrem, because the weight is constantly pressing. whereas tho screw presses strongest at Arst. The weight shoula be light at frst and gradually increás. ed; ana, if degirable, the cheeso may be taken ouk the same evering and turned, nfer washing the cloth Which should be of lemen), noll put back io press until morning, then a may be taken out and rabbed well with butter, and placed on an aity shelf and turned and rubbed daily. 1 prefer leting it remaiza until morning before turning, as the cloth will then como orf readily, leaving the cheese perfectly smooih. It should then be put hack to remain until next morning. Checse made after the above direchons, and pressed in this way, will seldom crack, or be injared by tho cheese-fly; but if any should crach, nb them well with flour
CCheece, but little inferior to the best qualthy may OO Sindo from the milk of trio or three cows, by stradsifig stio night's milk allogether into a rasscl Bunfée risô whe e a ararge quantity of milk is contained in a deep, yessel. Whaterer does rise should be remored, as it trill run of in the whey. Add the morning's milk, and proceed as above. A yery simple, but rualo, press mát bô constructed by any farmorr's wife in flve minutegs, which will subserve a good purpose Place the cheiese on a piece of a broad board, a little inclined, and use a fence rail for a lerer, placing une end under a ballding or any other stritture of sufi cient weight, and on the other end lean a conple or rails, or hang a pail of stones. Checse should be pressed only hard enough to remove the whey A littlo practice will make perfect. While pressing. the cheese should always be kfpt shaned from the suin. I think we are inexcusable if we have not our talles bonntifully supplied with this most wholesoric, palatable, and nutritious article of food."

## Working and Packing Batter.

Oxe of the causes of lad butter is the habit which some dairywomen indulge in of leaving their batter anvorked for a considerable time after churning. Erery hour that the buttermilk remains in contact with the butter, after churning, is an injury, it cannat be freed from if too soon.
The grain of butter is often spoiled by toa mach working ; on the other hand, if it is not worked enough, it will be spoiled; the process ther ore requires mach aftention.
It is hard to define with accuracy what we nean. by the grain of butter, but every one knows waether butter looks or fecls greasy or waxy. When it has the appearance of wax, we say. the grain is good, and he more it resembles wax in its consistency, the better is the grain. The more greasy it is in appearance, the more we say the grain hasbeen injured. In order to free butter from the milk with the least injury to to the grain, it should bogathered into an cgg -shaped form with a wooden butter ladle, without touching it with the naked hand, it should the a te gashed longitadinally around the whole circumfer ence, making the channels lowest at either end of the transverse axis, 30 that the milk can run readily away. Pressing the mass together, so that the particles are compelled to slido wrer cach uther laterally, as when puity is worked, and mortar is tempered, must be carefully avoited, ninder frualty of spoiling the grain.
Bulter machine workers hare failed of success chielly because of the pressure which causts a rathing motion of the particles upnn each other; they mash the butter wilhont properly working it. I hare no doubt, however, that the mechanical ingenuity of our country will yet supply a form of this much needed instrument, which will rolicre dairymumeth of the heary labour of rorking it by hand without ijjuring the grain.
It is not easy to work out all the buttermilk at once; it is, thercfore, better to sot it aside after the first working in a cool place for twelre hours, during which the action of the salt will liberate more of the buttermilk ; the first process should then be repeated, Fith the same precautions against injury to the grain, t is then ready for packing. I meed not thll the dairymen of this coantry that no pachages save oaben tubs are fit for butter, nor that the wood from which they are made should be thoroughly seasoned. They should be prepared by pouring boiling watur into them, in which they should goak for inctuty fout hours; they are then to bo alled with strung linie or tro or three days, after which they, should le Fell rubbed with fine salt, when they are ready to receive the butter.-J. S. Gould's Address.

## (futtomolagy.

## Pear and Cherry-tree Slugsi,

A Elbscmben," writing frum On ca Sound, is desirous of information respectugg the habits of these destructive insects, nud the besit mode of counteracting their manges. In his neighbourhood, he declares sume trees are lef mithout a green leaf. ' In other parts uf Canada, too, we hare ubserred almost similar effects. We shall gladly, therefore, do what we can to elucidate their history.
La a recent number we gare an accomnt of the cur-rant-bush caterpillars which have lately attracted so much attention. To the same family (Tenthredinidai) as the first of those described there, do the disgusting looking insects before us belong. They lire for the most part on the upper side of the leares of pear and whersytrees, of which they devour the green pulpy portion, or parenchyma, learing only the skeleton of the leaf, and the skin of the under-side. As many as wenty or thirty may sometimes be seen pursuing then natural and only arocation of eating on the surface of a single leaf; while rarely are less than two or three to be found together. In some seasons they appear in such maltitudes that the foliage of the trees they stack is completely destroyed, and those thus affected are obliged to put forth new leaves in the middle of summer from the ends of the trigs and branches. This, of course, materially impairs the bgour of the trees, and hy diverting the supply of nutriment from its proper channels, lessens or destroys altopether the expected crop of fruit. This providentially is not a rery frequent occurrence, though more or less of these noxious insects may every year be found in our gardens.

About the first week in June the young slugs begin to be hatched from their egges, and continue to come forth thll twards the end of the following month. At irst they are white. but are long a shiny matter pxules from their backs and prodaces their ordinary blackish, clivegreen coluur. Their undersude as dull gellowish; they are provided with twenty very short legs, each segment except the fourth and last being furnished mith a pair ; the head is dark brorin, very small, aad generally almost entirely concealed bencatl the front portion of the body, which is swollen and moch thicker than the hinder part, giving the insect rather the appearance of a small tadpole, thuugh it is of by no means so lively a di-pontion. They take between three and four weeks to attain to their full growth, when they are about five lines in length. During this period of feeding they cast their skins no less than five tumes, cumang out after the last moult in a clean jellow jacket, quite free from the disgusting slimy matter that formerly corered them. They change, also, slightly in form, bewming lunger and of more regular shape. With this alteration in appearance they leave off feeding, and soon after descend to the gronnd; here they set tu wurk tu burrow three or four inches into the soll, athl, fulanius for themseives a well-which they hae whith a shaning, sucky substance-undergo therr transformation into the pupa or clergsalis state. For about a furtnight they remain in the g ound in this dormant
 cume fully developed, they break through their cells, emerge to the surface of the warth, and soon gaily soar away in the form of flies, ready to perform their appointed duties, enjog their breef span of life, and die.

These nies are abont three liacs in length, of glosey black culour, with fuar opalescent transparcut wings, which hate a smuky unge, forming a

- Tho reader will of courso understand that whrro dates aro dicitcot is periut win wo axurau ly spectilou for the appenrance ci.., of ansects in this rariablu ciatuate its the seasuns are se dat immot, neco in ompmative ypars Dart g tho present eososod, for wam, nid many insccis camp out which do not ordinarily sbow tuenselres tull mech hater lo tho summer
dusky cloud across the midale of the front pair, the hind ones being plain. The front and intermediate pairs of legs are dirts yellom or clay-coloured, with black thighs ; the hind pair are blackish, with yellow knees. The females being provided wilh the usual saw like organs of this family, whe litule shits in the skin of the leapes, on rhich the slugs are aftermards to feed, and lay a single egg in each. These take about a fortnight to hatch, and then a second brood appears, which attain to then full growith, and descend into tha earth torrards the end of september or the begtaning of October. There they remain till the following spring, when they leave their winter quarters and are changed into flies. sud thus thoy go on in a continuotis round of existence.
These insects are called the pear, or Cherry-tree Saw-fly (Selandria Cerasi, Peck) A very fall nocount of their habits and transformations has been given by Professor Peck, in n work published at Boston in 1790 , uader the titie of *The natural history of the Slug-worm." It has for many years beon out ol grint, and we have nerer been fortanate enongh to meet with a copg.
These destructive insects, small though they be, are yet (according to the wise provision of Propidence) subject to the attacks of foes that are far more minute. Drof. Peck-Dr. Harris states-has described a any ichneumon fy that stings the eggs of this sawlyi and deposits in each one a slaglo egg of ats own from this, in due time, a little magrot is hatched, Which lives in the shell of the sow-ly's egg, devours the contents, and afterwards is changed to a shrysalis, and thea to a fly liko its parent. Prof. Peck round that great numbers of the eggs of this insect, especially of the second brood, were thus rendered abortite by this atom of existence. Birds also derour numbers while on the trees, and underground they are frequently destroyed by mice and other ma' animals. When these checks, however, are reduend of removed by circumstances, then the slugs appear in vast numbers, and carry on the work of destruction to the fullest extent

Various methods hare been resorted to, with variable success, for pulting a stop to their ravages. Ashes or quick-lime sifted on the trees by means of a sieve fastened to the end of a pole, has been much recummended. The best remedy, prubably, for this and other similas pests which are too manute to be picked off by bani, is that which is called. Haggerston's Mixture;" it is composed of tro pounds of whale-oil soap dissolved in fifteen gallons of water, and is applied by means of a large syringe or hydropult to the affected trees.

Errors Aboct Insects.-Several very erroneons statements conceraiag these annoyances aro constantly going the ronnds of the press, and even find aimittance to books. We propose to correct a few of the more important.
Plums are not safe from the curculio, "as soon as the stone is formed." If the first part of the season is favourable to the curculio soperations, the first set of eggs will be laid by the time the plums are half grown, and carly fruit will escape with but littlo fartherinjury, But a second set of eggs will beready for the later plams, and the first laying is often so protracted as to leave no appreciable interval between it and the second.
The apple borer cannot bo exterminated by any kind of attack through round holes which it makes in the bark. These holes are made by the mature weetly in escaping frum the tree after the grub has inished his work.
The caterpillars cannot be overcome by destroying their webs while they are foraging abroad. Neither are they alrays to be found at home until 9 oclock A. M. Their haluts vary with the weather, and are guided ly acuto instincts.
loney bees are not injurions to fruit. Eren wasps and horncts prefer that which has begnen to decay, and rarely attack a sound spot.
Neither potato rot, pear blight, or black knot are caused by any insect whatever. As to plums and cherries, injury from any canse gives an occasion for rot. All these diseases, except pear blight, are folly ascertained to be, or be caused by, fungi. The leaf blight of the pear, and that which cracks tho virgalien, are fungi ; but as to the terrible fre blight we lave no certainty as yet.

When you sue a bird dive at a cherry, and then sec a hole an che cherry, are you quite sure that the bird made the hole? Many binds of bugs and fies make such holes, and a bird who picks them out is doing you good service.-New York Journal of Commerc.

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## Rabies or Canine Madness.

Rabies, canine madness or rabies canina, is a nervous disorder produced by the peculiar poison from the bite of a mad dog. Dogs, and their congeners, cats, foxes, and wolves, suffer most frequently, but cattle, sheep, and horses are also attacked, even fowls are reported to have been affected; whilst in man the disease likewise occurs, and from its inducing a horror of water, is termed Hydrophobia. In all animals it invariably proves fata!

It is very important to distinguish the very earliest symptoms of so dangerous a dísorder. Mr. Youatt Who had extensive opportunities of observing the disease, and has recorded his experience of it in a work entitled "Canine madness" published in London in 1830, mentions that the dog in whom rabies is showing itself licks and scratches very constantly and determinedly at any bitten part, and becomes sullen, dull and depressed, or restless, quarrelsome, and excited. He is always nervous and easily roused, and if annoyed becomes much excited, bites at his chain, his kennel, and at other dogs, or at cats if he can get near them. Even when undistarbed, and tolerably quiet, he snaps at intervals at visionary objects. His bark is greatly altered, and resembles a howl, its carlier sounds are prolonged and dolorous, and its concluding strains harsh and rough. His appetite is depraved, wood, straw, leather, and even oxcroment are devoured. The dog is very thirsty; unlike the man with hydrophobia, he has no dread of water, will swim through it and eagerly lap it but the swelling about the throat, and the paralysis of the muscles of the throat, interfere with swallowing, especially in the more adranced stages of the disease. About the throat and mouth thickened viscid macous adheres which is endeavoured to be removed by the choking rough spasmodic cough, and by diligently rubbing the lips with the pawe. The animal's general appearanee is changed, be has a pacant preoccupled stare, saliva drivels from his mouth, his under jav somewhat paralysed, is inclined to drop, his eyes are reddened, his breathing harried, he looks thin end tucked up, walks with an ancertain sidling gait, and usually carries his tail despondingly between his legs. To the last, however, he remains conscious, recognises his master, and will often endeavour to do his bidding. Death occurs in from four to eight days, usually from exhaustion, occasion ally from suffocation or apoplexy.

Aftor death the blood is found dark coloured, imper fectly coagulated, deficient in fibrine, and causing gtraining of adjacent structures. The mucous memb ranes and glands about the throat are swollon, congested, and inflamed, and the inflammatory redness extends alike ahoag the respiratory and digestive mucous membranes, somatimes reaching in the latter tract as far as the jejunium. In the stomach and bowels are found
quantities of straw, dirt, and indigestible matters. quantities of straw, dirt, and indigestible matters. of a chocolate, brown, or dirty green hue. As in so many other nervous disorders, the nervous system does not after death exhibit any very definite abnormal appearances. In a few cases engorgoment of the vensels of the brain and medulla oblongata have been observed.

Profenser Dick, the late Sir Isaac Pennington, Professor of Physic at Cambridge, and a few other good anthorities consider that rables has nothing to do with the bite of a dog; that it is merely a violent inflammation of the macous membrane of the nostrils and throat, extending thence to the brain, and thus developing the notable nervous derangement; that it prevails like infuenza as an epiroote; and that in man the peculiar symptoms of hydrophobia are the reanlt mainly of a disordered imagination. These viows are, however, antenable. Neither rabies in animaly nor hydrophobia in man ever occur withont the patient having been innoculated by the peculiar poison produced within the body of a rabid animal. In the large proportion of cases there is good evidence of the patient having been bitten by a mad dog. In 1810 a mad dog in the neighbourhood of Senis bit ifteen persons, three of whom died of hydrophobia. A dog in Lord Fitzwilliam's kennels bit several of his fellows, and in five days died mad; erix others of thiose bitten afterwards became affected, the first in twenty-tiree days, the last only after 183 days.Wolves, jackals, and foxes have bitten hundreds of poople, and. of those bitten nearly one-half have died of hydrophobia. The salive from a man labouring under hydrophobia has produced rabies in dogs. A cratched by the tooth of a rabid horeo, to which the was giving a bail. Not only the saliva, but even the
blood from mad dogs has been foand by Hertwig to propagate the disease. The poison requires however o be brought in contact with an abraded surface. Upon the sound skin or even on a healthy unbruised mucous surface it is probably perfectly harmless. Dogs appear more susceptible to the influence of the specific poison than any other animals. Hertwig produced the disease in 14 out of 50 innoculated: Youatt gives even a larger proportion, staing that two out of three dogs bitten die mad. Of the horses bitten by mad dogs or wolves, a large proportion, fully one-half perish. Sheep and cattle, from the abundance of their woolly covering aud the looseness of their skins, although bitten in large numbers, suffer in lesser numbers than dogs. The clothing of men affords a great protection against the bite of a rabid dog, for the envenomed tooth is thus wiped before it reaches the flesh, and hence the chances of innoculation are greatly reduced. The famous John Hanter records an instance in which twenty-one persons were bitten, and only one became affected with hydrophobia.

It appears that the poison remains for a variable time locked up as it were in the wound produced by the tooth. Hertwig found that in dogs about fifty days clapsed between the animal being bitten or innoculated, and his becoming rabid. Of sixty recorded cases in man, the average period between the bite, and the appearance of the disease varied from four to seven weeks; fifteen days was the shortest time, and nine months the longest. Sach facts indicate the importance of at once cauterizing the bite inflicted by a mad dog. With nitrate of silver the lacerated surfaces should be freely ran over. Where practicable, a still safer remedy is the removal of the injured part with the knife. Even where the wound has been made for several days the knife or canstic may still prove serviceable. When once the symptoms of the complaint have shown themselves, treatmen is perfectly hopeless. The animal should be carefully chained up; if he has injured no one he should at once bo destroyed ; and if sufficient care were taken to destroy all mad dogs, and all dogs bitten by them there is no doubt that within a few months this dreadful disorder could be entirely exterminated and in England we might enjoy that immunity which Egypt, Isle of Cyprus, Madeira, and South America still have from rabies and hydrophobia.-North British Agriculturist.

Hoors of CoLTs.-The feet of unshod colts should be pared down as often as they need it, sinco, if neglected, they may become permanently mis-chapen, and he unnataral strain upon the pastern, caused by the excessive length of the
ringbone,-Ohio Farmer.

## ©he Aypiary.

Management of the Apiary in Sentember.
BY J. II. THOMAS.
Bx the middle of this month, the fall honry harvest will be past, and bees will add no more to their stores. All honey boxes not removed before should now be taken off. All late or small swarms should now be put together, for one strong stock is better than three weak ones, especially if they are to be wintered out of doors. All stocks that have not sufficient honey to carry them through the winter, should now be fed in order to have them store it in the combs, and seal it over while the weather is warm. About 30 lbs. of honey are required to winter a strong stock safely in the open air ; bat half that quantity would winter a good stock if housed in a proper place. If moveable-comb hives arc used, weak stocks may be strengthened by exchanging frames with a strong stock, or a frame containing honey may be given: them:
Now is the time to foed boes, and not wait until winter. It is bad policy to disturb bees during the winter. A syrup made of common sugar will answer for feed where honey cannot be had; white sugar is equally as good as honey. All stocks that are fed should be carefully guarded against robbers by contracting the entrance so that only a bee or two can pass at a time. In properly constructed moveable comb hives there is not the least difficulty in feeding All queenless stocks should now be taken up, or sup plied with \& queen. Stocks in common hives that are to be taken up, should be attended to now, as they will add no more to their stores. Moveable-comb hives may be examined, and if miller grabs ar found in the combs, they should be romoved.

If grubs are in the combs, a number of cells in different places will be uncapped, exposing the young bees. This is donc by the bees in search fon the grubs in other places the caps of the cells. will be removed, exposing the web or gallery of the grab; which is formed directly over the heads of the young bees and looks white where it is exposed by the bees: in this a. grub will generally be found. By touching these places lightly with a knife, the grab will be seen to move under the web, and its exact locality will thas be discovered. It may then be easily removed with the point of a knife, saving the bees much trouble. In common hives this cannot be done, though if nests are formed they may sometimes be seen by turning up the hive and looking in between the combs, and may often be removed with a knife. Let it be remem bered that stocks that have cast five or six swarms are very apt to be queenless or so reduced in bees as to bo almost worthloss. In such a case give ther. more bees, or a queen, as the case may require.

## Chinese Mode of Taking Honey.

Mn. Fontinn, the well-known Englisl botanist, thus describes the mode adopted by the Chinese for taking honey from bee-hives. He says: "The Chinese hive is a very rude affair, and looks very different from what we are accustomed to use in England ; yet, I suspect, were the bees consulted in this matter, they would prefer the Chinese to ours. It consists of a rough box, sometimes square and sometimes cylindrical, with a moveable top and bottom. When the bees are put into a hive of this description it is rarely placed on or near the gronnd, as with us, but is raised eight or ten feet, and generally fixed under a projecting roof of a house or outbuilding. No doubt the Chinese have remarked the partiality which the insects have for places of this kind, when they choose quarters for themselves, and have taken a lesson from this circumstance. My landlord, who had a number of hives, having determined one day to take some honey from two of them, a halfwitted priest, who was famous for his powers in sucb matters, was sent for to perform the operation. This man, in addition to his priestly duties, had charge of the buffaloes which were kept on the farm attached to the temple. He came round in high glee, evidently considering his qualification of no ordinary kind for the operation he was about to perform. Curious to witness his method of proceeding with the business I left some work with which I was busy, and followed him and the other priests and servants of the eatablishment to the place where the hives were fixed The form of the hive in this instance, was cylindrical; each was about three feet in length, and rather wider at the bottom than the top. When we reached the spot where the hives were placed, our operator jumped upon a table there for the purpose, and gently lifted down one of the hives and placedit on its side on the table. He then took the moveable top off, and the honeycomb, with which the hive was quite full, wae exposed to our view. In the meantime an old priest, having brought a large basin, and everything being ready, our friend commenced to cut out the honey comb with a knife apparently made for the purpose and having the handle almost at right angles. with the blade. Having taken out about one-third of the contents of the hive the top was put on again, and the hive elevated to its former position. The sam operation was repeated with the second hive, and in a manner quite satisfactory. But, it may be asked, 'Where were the bees at this time?' and that is the most curious part of my story. They had not been killed by the fames of brimstone; for it is contrary to the doctrine of the Buddhist creed to take anima like; nor had they been stapified with fungus, which is sometimes done at home; but they were fying although we were not protected in the slightent degree, not one of us was stang $;$ and this wis the more remarkable as the bodies of the operator and servants were completely naked from the midile
upwards. The charm was a simple one; it lay in a few dry stems and leaves of a species of Artemisia, (wormwood,) which grows wild on these hills, and which is largely used to drive that pest, mosquito, out of the dwellings of the people. This plant is cut early in the summer, sun-dried, then twisted into bands, and it is ready for use. At the commencement of the operation which I am describing; one of the substance was ignited, and kept burning slowiy as know work went on. pe por They were perfectly good tempered, and kept hovering about our heais bnt apparently incapable of doing us the slightest Injury. When tho hives were properfy fixed the charm was honey in triumph."


The Appie-tree of Tent Caterpillarn-." John Soules" wrill find an illustrated article on this subject at page 237, of vol. I of The Canada Farmer.
Plus Tares Sucyers.-Samuel Walker, of Deerhurst, writes as follows :-" I have in my garden some plum trees, which give me a great deal of annoyance, by sending up a number of suckers. I have tried pulling them up and cutting them off to no purpose. Will you or some of your numerous correspondents be kind enough to inform me how to remedy this nuisance, and prevent other trees from doing the same i I may add that the several varieties of grafted plum are bearing a very abundant crop, while the natural plom has entirely failed this year.

Grubs at the Roots of Strawberry Plants.-_" $G$. B. Salter" writes as follows: "I set out last spring a number of strawberry plants, which for some weeks did exceedingly well, but all at once I noticed that thé leaves of nearly every plant was drooping and dying. 'Upon an examination of the roots, I found that numbers of the large white grub, known as the potatoe grub, had eaten the fibres, and in some cases the roots themselves. Can you inform me what I can use in the future to protect my plants from the grub?

Avs.- We are of opinion that if you carefully prepare the ground for your strawberry plants, by thorough trenching to the depth of two feet, adding a liberal supply of rich, well-rotted manure, and afterwards reducing the soil to a fine tilth, you will not be troubled with the grab.
Hatcimna Expririence.- "Johin Veteh," of Brockville, communicates the following:-"In your issue of the 15th April, 'G. H. M.,' of Paris, states that small hens are best for setting, as they are not so apt to break the eggs. My experience this season is as follows : I set a very large Brahma hen with 16 eggs. She broke one while fighting with another hen, and brought out 15 fine healthy chicks, and has not lost one. I also set three of the smallest hens I could get with the following results: One with 10 eggs, broke 6, and brought out 4 birds; one with 9 broke 4 , and brought out 5 birds; and the other with 10 broke 7, and brought out 3 birds; which only makes 12 chickens for the three smallest hens, and 15 for the large hen. In former jears I have always had good luck with my large hens."
Barrenn Prar Tress.-On this subject "Mertimac," of Hope, writes as follows:-"I think that the cause of your correspondent, 'Oscar's' pear trees being barren is in consequence of the soil being too dead, or too rich, or the roots penetrating into the subsoil, causing over-laxurianee trom a superabundance of sap. Cutting off the roots of trees has sometimes been the means of causing them to bear fruit. Removing the decayed, cracked bark from old trees, is said to have a good effect. The same end has been obtained by removing annually a narrow portion of the bark, which is termed "ringing." In spring this process is said to improve the quality and precocity of the fruit. Ringing, when the blossoms' are fully expanded, produces a similar effect, by interrupting the descent of the sap. Stripping off pieces of the bark from stom and branohes checks luxuriance in pear trees. Benewal of soil to the roots has often been resorted to with success: Where the soil is too rich, a poorer Hind may be substituted, and where too poor, a richer. Bending down the branches has also had the desired effeot, and has been accounted for bjeits retarding the flow of sap. A good and judicions moil, on a firm, dry bottom, which will prevent the roots from penetrating too deeply into the sabcoil, with plenty of light and air, and proper proning, is the only permanent and general mode of

Rules for the Provinonal Plodghing Matci."A Ploughman," of Glanford, writes as follows:"I wish to direct attention to the rules recently adopted for governing the approaching Provincial Ploughing Match. It is not my intention to criticise, but merely to call attention to, and, if possible get an explanation of No. 7, which, in my estimation, detracts considerably from the merits of a generally appropriate and satisfactory set of rules. Some portions of the rule referred to will be found unintelligible to the majority of those interested. This remark is particularly applicable to the expression: "no false cutting will be allowed." Every ploughman probably understands what is meant by the technical term "cut"; but it is questionable whether any ploughman or anybody else, after care fally perusing rale No. 7, could, consistently with its terms, determine when any portion of the "cat" was false. My first impression was that the "cutting" would be considered true when the share and coulter cut at right angles to one another, and "false" when the share and coulter formed an acute angle; but on reading further, I found that interpretation inconsistent with the concluding portion of the same rule which allows of cutting at less than a right angle.

Ans.-We presume the clause in rule 7 :--" no false cutting will be allowed"-means that the two sides of the furrow slice must be of equal thickness and perfectly parallel, so that if the slices were en tirely removed from a ploughed ridge, the andersurface then exposed would not be saw-toothed, as is frequently the case, but quite level. The remaining provisions of the rule are so obvious, that comment or explanation, is superfluous.

『he © Cimada fianmer.
TORONTO, UPPER CANADA, SEPT. 1, 1865.

## The Yield of 1865.

Now that the cereals are harvested and the root crops alone remain to be heard from, a very natural curiosity is felt by everybody to know the results of the farmers' toil the present season, so far as they can be ascertained. It is greatly to be regretted that there are no means in operation for definitely arriving at the desired information, and one can hardly help giving way to a feeling of vexation at the impossibility of getting in plain figures the produce returns for the whole land at once. So mach de pends on the success or failure of the crops, and every description of business is so affected by the agricultural prosperity of the country, that it is a pity we cannot have some method put in operation, by which as early as possible, we can know the truth regarding a matter so universally and so deeply interesting. Last year the station-masters, along the line of the Grand Trank Railway, were instracted to report at headquarters, the crop returns in their several neighbourhoods, as a gaide with regard to the freight requirements upon the road. These returns were pablished; and from the length of the line, and its location, a very good summary was thas obtained of the crops. Most likely the same course is being parsued the present year, and, if so, we shall ere long, have some valnable data from that source. In the meantime, we have only occasional notices by the local newspapers, the testimony of travellers, our own observation, and a sort of gene ral diagnosis of the state of the country to go by: The reports of the local journals are very meagre, indeed it is remarkable how meagre they ars, and how small an amount of space is given in them to the leading interest of the country. Büt it is gratifying to observe that these "few and-far-beiwreen" notices, with scarcely an exception, concur in giving the most favourable accounts of the harvest just gathered in.

The testimony of travellers, and our own observation, somewhat limited it mast be confessed, are in entire accord with these accounts. The early part of the season was particularly favourable for putting in spring crops. Grass got an early start, made a fine growth, and the hay crop, everywhere good, was in many localities extraordinary. A large yield of hay is a fine foundation to begin with. It means plenty of meat, plenty of milk, and plenty of manure. Dry weather set in throughout a large extent of country about haying time, and continued so as to affect somewhat seriously the straw of the various kinds of grain, and the growth of the early root crops. Late planted potatoes are more flourishing and promise a far better yield than those which were got in early, thus reversing the usual order of things, and furnishing an illustration of the uncertainties that beset the husbandman's calling. Insect pests of all kinds have been very numerous the present year, owing perhaps to the peculiar character of our last winter. The snow fell before severe frost set in, and the ground remained covered until spring, thas affording shelter and protection to chrysalides and larva. Still the midge visitation, worst and most dreaded of our insect ills, has been more limited in extent and less mischievous than might have been anticipated. The experience of the present season is valuable, as proving that the midge attack is not entirely resistless. With due attention to the requisite conditions of the soil and season, a judicious system of cultivation and rotation of crops, and a careful selection of some well-proved variety of " midge-proof" wheat for seed, remanerative crops of our great staple may still be obtained, notwithstanding the prevalance of the midge. A high degree of fertility in the land is found to be a great safeguard against this pest. Thorough drainage, early sowing, and other precautions have been taught, by costly experience, to be needful if we are to continue raising a large breadth of wheat. In a word, better farming is the great lesson taught by this as by most other drawbacks to agricultural success. We believe that the yield of wheat is considerably above the average, and that the crops of all kinds will prove the best we have obtained for several years. Various estimates are formed of this season's wheat yield, but it is rather premature jet to deal in figures, ae the promise of the harvest field is not always borne out by the revelations of the threshing-machine. So far as we have learned, however, the new sample turns out very well. The produce of a field of Soule's wheat, grown in the neighbourhood of this city, averaged $36 \frac{1}{2}$ bushels-per acre of cleaned grain, and we hear of cases in which even this large yield has been exceeded. Several instances have come under oul eye of 30 bushels and upwards to the acre, reported in the local journals. The midge-proof varieties are less productive, and will probably fall below the average of other kind3, though we learn that in at least one instance, 30 bushels per acre have been obtained from this wheat. Oats, all over the country, wiil, we believe, be above an average crop. In many localities the straw is short, but the heads are more than usually full. Barley and pease will undoubtedly prove the largest crops we have gathered for years. The spleidid harvest weather we have had has enabled farmers to get their crops in, withont any drawback as to quality of oither grain or etraw. Now that reaping maphines are so widely used, the prevalance of $\frac{\mathrm{f}}{\mathrm{far}}$ anount of nioe woather, almost insures the good condition of the harrested crop. Flax cuIture bas been tried to a copsiderable extent this season with the most satisfactory results. The samples we have had an opportunity of inspecting, coutd not have been surpassed in length and quality of flore by the choicest produce of the "Emerald Isle." If is muoh to be desired that our farmers would make known their experience in the culture of thlis crop, as en enoouragement and guide to others. The flax plant is destined, wo believe, to
prove a giaat boon and bletsing to Oanada. Wo
have so chroniclo progress in dalry farming as chanacleristio of the preant sesson. The cheesofaclory syatem has been sel faitly soing among us. Four eflicient factorics baye becn in operation in the Oxford daliry region with the most satiefactory resulta, and we are glad to hear of others about to be started in rarious paris of the country. Wo look with much hepe to this new branch of agricultural industry. The jield of frult this year is belter than usumb. The amiller frnits that como carly in tho zeason trere most abundant, and the spple crop will he a large one. We hare not heard much complaint of the curculio this year, and augur from that a good gield of plums. Peachec are only raised to any extent in the Niagara District, and we are not amaro how they promise. This had beee a good beason for bens, and we anticipate a plentiful boney harrest. Beekerping, Te are glad to find, is largely on the increaso nll ofer Canada.
We intimated at the outset that a sort of gencral diagnosis of the stato of feeling among our popalation, gave farourable indications as to the year's yield. A few reeks bave bronght a great chango in this respect. While the harvest was uncertain, sur people, remembering the poor crops we have had of late, and yielding to that tendency to discontent which is so characteristic of poor human nature, filled the air with all manner of complaints, and muttered thunders about absurd and desperate means of relief, were heard in some quarters, while uncasiness nad misgiving were general if not universal. There is no donying it, that a "change is coming o'er the spirit of our dream," that we aro in some way or other getting rid of the nightmare that was upon us, and that a general feelling of contentment and hopefulness is abroad. There is only one way of accounting for this, and that is by the general knowledge of the fact that we havo got an abundart harvest. No great political changes have taken place. There has been riothing to dazzle the public eye, or draw of attention from our actual condition. Tidings have come to us from other lands, which show that we are better off than many of our sister nations-the sight of teeming plenty has gladdened us-ovidence has beet given that we have our lot in a good and pleasant land-and thankful for prescnt blessings-we are setting ourselves, as a sensible people ought to do, to work out the problem of our destiny, trasting in the all-wiso and mercifal Providence that has never ceased and never will cease to care for us and for ours.

## Mule and Donkey Show.

Tre second annual show of mules and dontegs was recently held in the Agricultaral Hall, Islington, and was in every respect a decided success. This somowhat novel exhibition was originated by the "Soriety for the Prevention of Cruelty to Animals," assisted by the wealth and influence of Miss Burdett Contts. So determined was this benovolent lady to support the movement that sho parchased a pair of donk $y$, one of them a prize-holder of last year, in order $t$ enter the lists as a competitor. With her opportunities sho had only to wish to succeed in order to cngure success, and her donkey waggonette was accordingly one of the most remarkablo sights of the erhibition. The masters of these genorally jill-used croatures vere afforded a clear demonstration that kind treatment is all that is requisite to render the donkey as docilo and tractable as the horse. Some good specimens of males, and upwards of half a dozen of that fine animad, the Spanish ass, wero oxhibited. There wero also shown some very pretty specimens of small foreign asses, whose beantiful forms attractod much attention and curiosity. One of our Britiah exchanges remarks that " ll was a matter of complaint daring the dog show that an almost incessant barking and yelling of the doga frightenod the neighbourhood from ita propriety; bat the braying of the donkeys throws into the shade the less sonosous barkjog of the dogs, and
proclalaced the presence of the show lous befor jon anti ed at the bulliding."
Towards the afernoon. when the prizes had been ararded, racing in the nrena commenced, which is thus described in the Fidd: "Xfuch smusement wae aflorded by the ups and downs of the mimals and their fiders, nnd, indeed, this part of the show was more patronised than the occupanis of the etalls yhist in them. Ofken, in the maces, $n$ donkey would 80 in rinning style for two or three tounds, when the tider would forget himself so far as to offend bis quadruped by an exim pull of the rein (the only ofsensive weapon), and then down would go the head and up the heils, to the extent of losing the race; whereas, had the hands been kept still, it could not be lost. There is a limit to the enduranec even of a donkey, and nothing can prove this better than a donker-race."
The same journal winds up its remarks as follors : "Ye trust that this exhibition will be continued annnally, as a means of teaching the costermongerthow ho may best treat his depentent, which can only be done by combining kind treatment with plain, gooll food, and a reasonable amount of rork.'

## The Cattle Disease in Iondon,

Tae existence of a fatal and infectious disease among the catte of the London dairynen is cxeliting geacral concern in Britain. Without a single exception, all of our recent Rritish exehanges devote editorials to a discussion of the tremendous cc:iscquences insolved in the extension of the plague throughout the cluntry. Dearth of fodder, for some timo past, has led to a serious rize in the price of meat, and afforded dishonest dealers an excellent opportunits of disposing of diseased animals at remunerative prices. But this state of things shrinks into nothingness besido the lamentable prospects of the present visitation. From an exhaustive article on the subject in the Medical Times, it would appear that the malady is new to the present generation, but that its eymptoms are somewhat similar to the malady known in the south-east of Europe as the Steppe Mrurrain, and in Germany by the name of the Rinderpest.
It would seem that the first appearance of tho malady, so far as it can bo traced, dates back to Juno 27th, when six cows, purchased at the Metropolitan Cattle Market, were seized with it. These animals wero at onco placed in quarantine, but in spite of tho precaution, the disease spread until one hundred and fiffen died. Since that date twelve distinct outbreaks of the malady have been traced; and it is also reported to have appeared in various points of England, and even in Scotland, although more accurato information is required before theso reports can be confirmed. This much, however, is certain, that in the month of July over 2,000 head of cattle were lost to their owners in the neighbourhood of London alone. Indeed, some of our contemporaries are disposed to believe that this number is rather below the trath. Many instances are said to bo known where the entire stock-numbering in some cases 70 cowshave been entirely swept away by the ravages of the plague.
The symptoms and course of the disease are described by the Medical Times as follows:-"Tho cow, proviously quite heallhy, is suddenly seized with trembling or rigors ; in an hour or two parging of thin focal matter occurs, soon followed by purging of a thin, watery, brown, serous fluid, sometimes accompanicd with a littlo blood. Of course, the milk is at once supprossed. Soon after a serous discharge takes place from the nose, and the muoous membrane of tho nose and vagina are observed to becomo denaded of epitheliam. Sometimes there is tympanitis. Prostration and collapse follew, the extremities become cold, and subcatancous emphysema is observed in tho loins. Death usually resalts in a period of from twelvo hours to seven days."

The Goyernment bas taken prompt measures to necertaln hor far the atecreo at present prevaile, with a tiew to limit its extonalion. Iospectors. elected fr $\rightarrow \mathrm{m}$ the reterinary profession, are appointed to visit locustics where the malady rages, in order to repertana ndvise. Unhappily, farmera and dnirymed are pursuing a suicidal policy oy koeping back information, and attempting to diaguise the extent to Thich they hare suffered. "By a ready ro-operation with the efforts of tho Goremment," says the Agricut. Iural Gaztle, " n great doal may be done in anehort time; while the opposite course involves delay that winl be fatal, as no measures of an active character can be taken until the exient of the mischief is known:"
It is somewhat startling to leara, notwithstanding the immense reduction in the number ot corsamounting to over one-third-that the sir ply of milk in the Metropolis still continuce at par. It is not dimeult to conjecture how this result is compaserd. London dairymen are a proverbially shrewd and ingenious mace. In apite of ridicule and pudialment, they fondly cling to " wo coss with the iron tail." Under existing ciroumstances; all they have got to to is to milk tho unconscious and not ungrataful animal a little barder. Certainly the milk may be thin, and lack nearly every characteristic of that yielded by the quadruped; but those shortcomings can he conveniently supplici. Ctalk is plentiful in the south of England ; ana no inconsiderable portion of the famous "white cliffs of Albion" has been poured down the throats of the over-conflaing Cockneys, in a state of solution, under the generic name of " mils." The journal last quoted is approhensive that a considerable portion of the article sapplied to the Londoancs at present is not so harmless in its nature as aven that which is largely composed of coloured water. Our contemporary says:-"If only water isemplojed to meet the deficiency, we shall offer no remonstrance, but unfortunatoly a ocrtain quantity of milk can be obtained during the progress of the disease, and so long as it does not appear to be undt for use, there is reason to fear it is mingled with the rest; true, we bave at present no positive proof that such milk is directly injurious, but considering the state of the animal's system, it can ecarcely be hoped tha. any quantity could be consumed wlich impunity, particularly by young children, who aro likely to bo the principal suferers in such cases."
Of course, much remains to be learned respecting the disease Numerous experiments will have to be carefully performed before any very deùnite or decided results can be expected. In the meantime, the precautionary measures of the Government can hardly fail to leessen, if not entirely arrest its progress. Fire long, we shall no donbt be in more complete possession of the facts of the case.

## Recont Exhibitions of British Agrioultural Societies,

Inverness, the beautifully situated Highland capital, was this year once more the scene of tho annual show of tho "Highland and Agricultural Society." The frst show held in this place was in 1831, when only 198 cattle, 90 horses, 129 head of sheep, and 11 swine were shown. Immense strides of agricultural progress have been made in this district since that date. Land monopolized by the moorforl, and untrodden save by the foot of the sportsman, is now turned into pasture or tho hcather transformed into corn. Until recently Inverness conld only be reached by a long journey by coach or steamboat, and competition was thercfore principally confined to those who were more immediately connected with the district. About two years ago the Bighland line of railway from Perth was opened out, affording distant orhibitors and visitors a quick conveyance to and from the north, and as a consequenco the entries were largely increased. Spaco will not admit of our en. tering into any elaborate detalls of this most saccess-
ful exhibitiox. In general terms we can only eay that the Shorthorns were a full and interesting class. Sixteen aged bulls were present, and nearly all of them fere superior animals. The post of honour was assigned to Mr. Geddes' "Iritish King," a massive rich, roan animal ; followed as second by Mr. Longmire's "Victory." The twe gear ulls were also a superior class, and the young bulls were buth numerous and good. The female chasses were well represented, and in particular may be mentioned the heifers. The polled classes mustered in great strength, and contained some first class animals, prize takers in many previous shows. In the Highland classes, many of the best breeders of this picturesque race of cattlo were represented. Ay rshires were not so numerous, but those shown by the Duke of Athole are reported by the Scoltish I'rmer to have been particularly excellent. The hurses generally speating were of a good quality. The Leicester sheep, espocially the tups were of superior merit, and the judges had considerable difienlty in deciding on their respective places in the prize list. The Cheviots and blackfaced sheep were prominent features in the show. The swine sections were not numerously filled, and while there were some fair mimals brought out, the quality and style obserrable in English exhibitions were said to be wanting
In the implement department there were 69 exhibitors, some of whom bad large collections; but strange to say, there was not a single steam engine on the ground.
The twenty-righth annual show of the Yorkshire Agricultural Society was this year held at Doncaster. As in all exlibitions in this county, horses were the grand feature. Altogether the entries in this depart ment reached the large number of 339 of these a great proportion were of the hunting class, sereral of whom had figured successfully in previnus great exhibitions. The celebrated Derby winner, Blair Athol, held quite a lecce during the day ; his box, conveniently railed off, enablinig a continuous stream of visitors to pass through without the least inconvenience. We have not space for an cetended notice of this exhibition, nor for the names of the principal prize winners. Suffice it to say that cattle, sheep, prize winners. Sufice it to siy that catter sheep,
and implements were all shown in large numbers and of very superior quality

## The Beaver Mutual Fire Insurance Association.

Few sabjects are more rorthy the careful consideration of farmers, than that of Insuraner At the rates usually charged by companies, many complain grextls of the expense of insuring, and are deterred from properly protecting their property on that account. This is very questionable eronomy at best. but the objection is greatly lessenel if not wholly remored, by the low rates which can be adupted by an association which takes exclusirely farm and other isolated risks, eschers all liazardous property, and is conducted on the mutual principle These are the chief features of the Bearer Mutual whose annual report appears in our advertising columns. This Association conducts its business rith great cconomy, and its rates are remarkably low It insures farm property for either three or seren years. A premium note is taken of from 1 to 22 per cent., according wi the nature of tue rish. One-sixth is payable thereon in cash, and assesments are made as necessity calls for them. Tu aroid ass sssments, inearers may pay half the amumat of the nute in casb and receive a full discharge for the tern covered by the policy. The Beaver is cridently growing into public favour, and doing a rapidly increasing business. The Directurs are thorunglily practical agriculturists and trustwortioy men of business. The recovery of claims for lossea is well guaranteed. It is essentially a farmer's Iasurance Cumpany, and we take pleasure in commendiug it io wut readers as a good and sound institution, affording unumal encouragement to the discharge of a duty which everij owner of property ones to limbelf and those dependeat on him.

## The Fergas Oup.

Is addition to the announcement in our last issue of the continnance of this prize, wo have ween requested by the Secretary of the Board of Agricalture to state the specific conditious on which the Silvos Cup will be awarded, and to remind intending competitors that entries will bo received fur this prize until September 9th. The Ferrus Cup will be awarded "for the best two gears old grade leifir, by is thorougl bred Shorthorn bull, out of a cow not having more than five crosses by thorough-bred Shorthorn bulls." The intention of the Mon. Jfr Blair, in offering this prize, is to admit to competition the produce of common country curss, as well as those having a share of Shorthorn blood, as above limited; while other breeds, such as Ayrshires, will be excluded. The pedigree of the competing ani mals must be sent with the entries.

## International Exhibition.

A. areat international show of fruits, gourds, roots, regetables, and cereals, open to all the world, is to be held in the Palace and grounds of the Dublin International Exhibition, on October 3rd, 4th, 5 th, and 6 th, when prizes will be ararded for fruit, agricultural and garden roots and regetable3, cereals, dried and preserved fruits, and table decorations. Exabitors muct give intimation to the comptroller of the show of their inteation to exhibit, on or before the $29 t h$ September, and the articles must be sent in not later than the 2nd of October. All articles exhibited must be named. There must be six specimens of each sort of the larger fruits, and of the smaller fruts an ordinary dish. A silver medal will be given for the best collection of fruit and regctables grown by botanical and horticultural societies in any part of the world, and a sciond medal for an assortment of fruits and regetables from any of the colonies. The prizes rary from sirty shillings, and thirty shillings for th- wor and second, down to ten and fire shillings. The prizes will, we apprehend, not be sufficiently large to attract the attention of private exhibitors in Canada, but we can hardly conceive a better opportunity for showing to the people of the British Istands the resources of the Province than by scnding to this exhibition a well selected assortinent of Canadian fraits and vegetables. There are thousands of intelligent people in the British Islands who would not credit a statement that we grow peaches and grapes in the open air, and would be astomshed by a sight of our tomatoes and melons. We are quite sure that our horticulturists would willingly furnish the necessary fruits if an organization werc formed to tako charge of and forward them. Will not some of our horticultural societies take up the matter? Captain Coff, whose card indicates that he is Provincial Agent of Caneda at the Dublin Exhibition, would doubtless take charge of any articles sent to him for cxnibition.

## Trial of Implements at the Rooyal English Society's Exhibition.

Is the department of implements and machines the Royal Agricultural Society's recent show at Plymonth, seemin not to hare fallen much short of previeas years, and in quality and utility it maintained its previous high character. The testing of these implements took placo the week before the show, comprising reaping and mowing machincs, hay makers, and horse rakes, drills of all kinds, manure distributors, and horse toen, carts, raggons, and miscellancous. The articles tested consisted of selections mado from tho different stands of manufacturers in the show gard, and the reader may form somo idea of the magnitudo and dinculty of the work from the number brought on the trial ground. There were 25 reaping machines, 10 eelf doliveriag, 8 combined mowers and reapern, 13 mowing machines, 17 hay makers, and

23 horse rakes, besides a great variety of drills, and other implements. The trial grcund consisted of about 70 acres, a space that was found insufficient for the purpese. The grain was principally oats and rye, a rery heary crop, twisted and laid in erery conceirable direction.
From all tho reports that lare reached us, it is evident that the trial of implements was carried on under great difflculties, and, it would appear, with resulta anything but satisfactory. The weather during half of tho time was unfortanately wet, and tho ground and crops were in an unsuitable condition for a thorough and correct testing of the imachinee. We have long thought that these matters require more time and attention than is commonly given to them. Although somewhat long, we append some remarks in reference to this subject from the Scottish Farmer, uhich are equally deserving attention on this as well as the other side of the Atlantic :-
"Thus far the meeting of the Rogal Africaltural Society has met with a most discouraring beginning. Out of the four days appointed for the trials two have been lost, or practicaliy so; and unless the trials are extended for some time, we see no chance of the work which is before the judges being completed in the only way in which it should bo completed, that is, carefully and thoroughly. The history, indeed, of those days cannot fail to bring strongly up in the minds of those opposed to the whole systom of "trials" of machines nad implements, much that is suro to bear strongly against the principle upon whick they are based, or at all events, upon which they are conducted. Waiving, for the present, our opinion as to the propriety or otherwise of giving prizes at those trials, and of which, by the way, much as has heen said, yet mucis more can still be said on both sidesprobably more of the "pro" than the "con"一there can at all events be but one opinion we should think on this: that if no better system than that which is at present, and $x$ hich has been the rale at all the meetings we have aftended, can be introduced, that that system is very far indeed remored from the system of working in ordinary farm practice. That a machino can be fairly tested with a trial of three minuten, or an implement with a run over of a short length or lengths of land, and under circumstances which are
at the lest cxciting, and in many ways calculated to at the best exciting, and in many ways calculated to
detract from the quict painstaking care which is honestly demanded-that this machine or that implement cau be said to come out of the trial as testod in the way ordinary farm-work tests them-we cannot admit for a moment. If the judges have too much work to do in a giren time, assuredly it would be the riscr policy to gire them less; for unless the work loo well and thoroughly done, it is obvious enough that the very nim which the Socicty has, or professes to bave, in instituting these trials, is not attained. Wo have no licsitation in saying that at many of the trials at which we hare been presentand hero we include those of Societies other than the Rosal-the circumstances under which the machine or implement was put to work possessed but a miserably faint resemblance to those of the ordinary routine of farm work. How is this, and why should it be so? Not seldom have these questions been put by those interested in the real and practical .ogreas
of our agricultural socictice, and not seldom, we of our agricultural societics, and not seldome wo far as getting a satisfactory answer to them is concerned, our readers may judge.
"These remarks, are not uncalled for: the recorder of the labours of our socictics has a duts to perform to them as well as to the public which supporis them, and that duty comprises not merely a landatory
notice of what they do well, bnt a condecnation of what they do ill. Considering the way in which triala areat present conducted, it is not at all a matter of anprise to us that every succeeding year of the Society's erpericnce finds a large number of thoso who havo
competed dissatisfed with the results of these competitions. It is not, they say and say trulythat justice has not been cagerly sought for by the paid to their intercets; but thoy no less truly say that the very circamstunces under Which the trial are mado preclade all poosibility of fair justios bolng of time is gircn to the do:ig of the maximam of work to bo done, the resalte cannot in any way be thorouglily salisfactory. Now, this is precisely the posi ion in which the Society too frequeatly find isclf, and to Which the implement makers-at all
crents tho lcading ones-take objection. And apart from all tho insuences which operato upon them in their derire to sell thoir mandnos and implamont-
influcnces thich are entircly and thongughly legiti-
mato- wro ventaro to say that a large element in their coasideration of tho matter is to add to the attraction and to extend the area of the practical usefalness of the Society. And this, many of them feel, is not done by the present system-at least not done in the thorougl may it can and ougbt to bo done. Wo believe we give placo here, by so sayiag to the sentiments af many of them ; but whether we do so or not, these sentiacots assuredly are orr orn; and in urging them upon public notico we believo we are domg th body of men who by their caterprise and the time and money which they gire so largely and so ungrudging'y to the development of the mechanics of agricuture, are ieserving of it, a real service, and are consulting their best interests. Nor leas do we say all this in the interests of tho large body of farmens, those who attend not equally with those who do attend trials of our shows, and who are most naxions to have trnstworthy opinions of judges, or thuse who ought to bo judges, as to the relative merits of machines and implements compotiag for public savour. Fur how comes it to pass that in many, rery many casce, farmers pay no attention to the rewarts gicen to machines, so tar nt least 38 these reward ro apposea 6 shadow torth tho seal merits or the machines rewaruea. oniche contrary, as inded at any time is taken as no real lndex of the value of the wachine to which it has been given. Those who do know the way in which trials, so-called-for trials they are not im anything liko the real meaning of the term-are conducted at moro than one of oursociety' shows, know that as trials they possess no real twhe. The history of trials bas yet to be written; but rhen it is so, some statements which mast be mande in its recards, ir these are truthfully drawn up will go far to show that the yrize list of more than one society-we do not eay all societiesm-in place of being a goido to the farmer, has been more like what indeed it has not seldom been designated, "a mock ery, a delusion, and a snare." Wo maintaia it to be a position thoroughly incontrovertible, that the nearer the circumstances under which the trials of the Society are brought to the circumstances of or dinary farm.work, the more trustworthy and practically valuable the resalts, will be. It seems 20 bo hat stating a rawisi orcriooked if not altorethe isnored. And this farther we maintain to be incontrovertible, that the most carsory examination of the mode in which too many of our public trials are made not only by the Royal Agricutural Society, but by other socicies wlich are nameless now, will clearly prove that that is not the mode in which the ordinary work of the farm is conducted. Of course it will be understood that we meas that such will be the conclusion come to by those who kinow practically what farm-wirk is.

The first step torardareform is the conviction that rccorm is needed; unt so far as any evidence to tho contrary bas been offered on the part of ail tho Rogal, they do not yet bclievo that it is so. It is no answer to tho objections which bavo been made, and which will, wo vesture to bay, continue to be mado by thoss interested in a recorm of the syatem till that reform is brought about-it is no answer, Te making thorough trials is too short, or that the num wer of machines are too many."

## Book Notices.

Scoond Annzal Report of tue Néw Yorc Sute Cifese Manceactcrets' Absochatton, Urtca, N. Y., 1865, p.p. 170.
Tass pamphict is a valaablo presentment to what is now fast becoming an important branch of our Esq, on "American Chcese Dairying-the meanaror its improvement and success," formas an appropriate
preamble to its other contents. Tho lecturer discusces thad ratages of association-the permanency or the gystem-prices and quality of American and remodtod -tho Chediar stile-charater of chow demanded-cost of prodncing millt, de. ; together Fith a inotice of the origlantor of tho factory system, Jase Williams, ef Rome. There ii also avery inter-
 tages of the old and new rystema of cheese manufac ture: With a large nionant of other neefllinforvations factorics of tho Associntian. The rounmo brougts to a claso by a collection of sirrited notes from. tho pen of Mr. Willurd, on thi "Dhiry Region," from which we make the following extrest:-


Shearman farm. The buihing is ner, nad beilt in the most subistintinl and thorotgh manner. It is 100 get lons by 30 wide, tro stoties high, with floors and siding of matehed pine, and receives tho milk from 600 cows The mamifactarintroom is separated from the dry-house by a partition, along shich stand the presses, ten in number, and so arranged, that by throwing up large panelo. fang on pallegsin the partition, the cherses may bo remored to the hables with the greatest ease and convenience. This arrangement is somewhat novel, and appared to be an ndmimble improvement on the ofid style of factories. The floor of the manhiachuriugroum slopes torrardy a narrow deain sunk in the floor just in front of the presses. This drain receives the whey. and conducts it to the whts, which are a long way from the lmikling. Hy simple fixtures the floor may be dounded and weshed, and shl refise slops carried off through the water train, avoiding all taints from drippings of whey and slops abont the buildiag. These arragements ate pertect, and in this respect tha New If.rifurd fiecery is it model of neataess, which some olber esthblishoments of similar chatacter wonld do well to coprs. The manafacturing-room is provided with three 0 Neil rats and heaters of 650 gallons each, capacaty, for holdang the milk, and the namber of ponnds of mith received per day is 10,350 . This is manmfactured into 1,100 pounds of clacese, which is pressed in 20 -inch hoops, making ten cheoses. 10 inches high. The milk is set at 80 degrees, and the hglest heat in cooking the curd is 100 derrecs. The eurd, in mannfacturing, is cut wath stech-bladed curd kaires, worked as fine as wheat hernels, and salted with threc pounds of salt to the 100 gallons of milk. The curn, ifter it is first cut, stands about 50 minutes, when it is again cut, and in noout an hour the heat is begun to be applied, which is continued for the space of tre homs, the lime of cooking depeading of the condition of the mill and the atmosphere. Nime ponnds of milk make one pound of green cheese, as it comes from the press. Colouring mitter is to be uscd in the clieeso during the summer. No grease is applied to the bandayes. The hay-cheese made up to the lst May sold for 18je per pound. The curing-room, which is well arranged as to light and ventilation, is prowided with mages, on which stood 150 rery hamdsome cheeses, firm, with clastic rind, and frec from spot or blemish. IT W. Boore and II. Ackley are the mannketurers. The pirpons aro located at a considerable distabce from the building, in which are fed 100 hogs upon whes, no other food beiug employed; 36 calres are also fid from the whey coming from this establishment Arrangements are being mande to min the whey to a large stable near the fectory, aud fed to 50 cons, morming and evening. This is permaps the best, or one of the best arranged factorices in the country, and has a fine epring a fers feet from the bank of the delivery wisdow, which furnishes an abundance of water."

Gazetreen ana Dmecrony or tue Caentt or Grex. By W. W. Smith, Owen Sound p. n. 330. This wort comains a large amome of useful information respecting the new but fane and rapialy derelopiag couniy to which it relates. To uany business men taroughont tho land it will be a welcome book of coasultation and refreace. searecly a question can arise as to the size rad lucithon of vilages, distances, routes of travel, quality of lima, fucilities for trudes, te., but is answered by it. A. rery cutsory glance at tho volume gives one an impression of the extent, resources and prospects of tho countr, such as can be had in no other way, sare by trarersing its entice extent. The author mast hare been at great paius and expense to collect the contents of this work, and we bopo be will reap his reward in an extensire sato of it. Copics may be obtained of Messis. Rollo \& Alam. Dooknellers of tais city. Price, s 150 cents.

Socheit, for the Iene 1564. Botton. Mfenty W. Dution \& Sons, Priniers. pp. 100.

This is a large, nicely printed namphlet, 2nd contains Reports of tha Committecs on Uruamental Gardening, FJowers; Fruits ; and Fegetables-together Fith a list of preminms arrarded to saccossful exhibitors in each class. There are also lienorts by the Library and Finance Committees; an address by tho President of tho Societs ; and lists of its Lifo and Anneal Mcmbers. In the form of an Appendix, we ars furnished with an interestiag account of the ceremonies obserred in laring the comer wone or the New Irall of tho Mass. Moriculturnil Society, at Dos ton, on tho listh of Auguat last.
Nxw Misic-We acknoricuge the recelipt from Mesers, A. S S Nordheimer, Toronto, of tho following pleces of piano-forte music publisted by them: The Bello of Canala, The Mosebua, Mary Morison, The

## gagricutural zatelligture.

The Last Election to the Board of Agriculture.

## To the Elifor of Tue Canadas Enbueb.

Sin,--Vnder the abore heading, in the last number of your Jonmal, I notice a letter from Mr. George Muston, of Guelph, in which he seems to imply an atcusation against sonne party, of suppressing the votes cast for members of the Board of Agriculare at the last anmal meeting of the agricattural societhes, so as to secure the return of the old members to the Boara. I did not at first intend to make any reply to this communication, as I suppose it is a part of the duty of public bodies and their officers to erbmit in silence to occasional reflections upon them through the publie press, however unfonmed. Inat, on consiluration, I hare determinel to state all the fucts in regard to this matter, so far as I am nequainted with them, if you will be hind enongh to insert this letter.
In the first phace, then, the Agricultural Statute, with which it is the daty of officers of agricultural societies to make themselves acquainted, requires that the names of persons nominated at the ammal meetings of the societies, as members of the Board of Igriculture, should be transmitted "forthwith," not to the offec of the Roard of Agriculture, but to the Durean of Agriculture, af the seat of Government. Not relying, however, upon societies making them selves acquanted with this provision, I have alwars, while secretary of the Board, taken care to ditect their attemtion specially to $i t$, in $n$ circular annually issued to the soviuties previous to their annual meetings. In proof of which, I give you the followingexfract from the circular issued at the begianing of last Jamary, two or three weeks before the annual meetings of the sucictics, as follows: -

The Stantue requires that each Connty or Electoral Division Society ghall, at its Aanual Mecting, nominate fuar proper nersous to serve as members of the Board of Agricuture, and transmit the names of tho four persons so nominated forthwith to the larean of Agrienlture.

You are requested particularly to notice that these names have to bo trammitted to the biredv of aces cuctune, Quenec, immediately after the annual mecting."

It is clear, therefore, that if the names of the persons nominated are not sent to the proper quarter by any of the secietics, it is the fault of such societics themsulves, and put of any other party. Apart from this consideration, however, whed jn point of fact, a few of the societics have sometimes sent the names to me as Secretary of the loard, although I couk not tell Whether dhey were merdy duplicates of rotes for Warded to the burean, or had been sent to this oflec alone, I have always taken caro in zach cases immediately to forward such returns to the Burcau. I did so chis year, as usuai, when I think the rotes cro sent to me from some firo or six sociches.
Further, I would state, on behalf of the burcau that on the 1 cth Feleruary 1 reocived a letier foom Xr Tache, Depaty Minister of Agriculture, dated $\mathbf{1 4 t h}$ in which bo asked me to send a complete list of tho Sociotics which had reported to me the votes cast for members of the Doard, and also of those which lad not so reported. This list I mappose was required for the purpose of cosuring the correctaces of the statement about to be mado up of tho votes crast. I itamediately tramsmitted it 10 Queliec, and have in mey possestion Mr. Tuche's reply ackuowledging tho receipt of it. At the cad of February, being about the bane time as in other years, and more than a month after the annual meetings, the mames of the members elected were publisbed in the valueial Gazelte, and ander date of Febraary 2ith, I baro a letter from Mr. Tacbe accompanying a decuiled shatement of all the votes sent in from the Secielies, tho result being not cxaclly as atated by Mr. Nurion, but as follows:mr. Christic, 26; Mr. Burnham, 24; Mr. Fergueon, 11 ; Dr. Richmond, 37 ; Mr. Johnson, 20 ; Mr. Slone, 22, and one or iwo siraggling votes for each of six other gentlemen. In riew of the above fucts, 1 am digposed to think that erery enacarour Fas the csy the zureau of Agriculiki, Mor know anythiog to do with the matter, to gira the correct result of tie voles ecnt in for menbers of tue Board.

What number of rotes may have been given for each nominee in addition to those stated abore, I hare no means of jadging, except by Mr. Murton's letter, but I am of opinion that if the rotes of any of the Socioties failed to bo taken into acconnt, such fallure was simply owing to the neglect of the Socictics themfelses, either in not formarding their rotes at all, or not forwarding them at a sumiciently early date to bo received before the announcement of the election o the members of the Board in tho Gasette, which, as I hare stated abore, was more than $\Omega$ monthater the Annual Neeting of the Socioties.

IIUGII C. THOMSON
Secy. Board of Ag.
Toronto, August 23, 1565
zeg Mr. Winson, of Yonkland Mills, Furgns, has fitted up a far mill in that place, and is now buying the fibre from the farmers.
Tor Tue Farmington (Je.) Chronicle sassa species of insect is threatening the extemination of the Canada thistle. It envelopes the top of the plant in a web, and presents its growth and forering Success toit
 the Secretare, J. B. Aylsirorth. Fisq., that the Addington County Exhibiton watl le held at Aew burgh, on Thursday, October 12th The same gentleman states that tho Camden Townshp Show takes placo at Centrerille, on saturdas, Uctober 1 th .
Tm: Wheat Crors in Grer.-The Oren Sound Advertiscr says that the fall wheat in that section is nearly all housed, and generally speaking in good condition. Many of the farmers are now busily engaged in threshing. The yield is found in most cases to be excellent, areragitig about 30 bushels to the acre.
Cattle fron me Nomm-Over coo eattle were driven down the Owen Sound Rond last week, and nearly all passed over the Galt Branch on the way to the American market. Mr. Speers, of Galt, owned 150, Mr. Head 100, and a number of Anericans orer 300. The cattlo were purchased in the district of country between Durbam and Owen Sound - Eix.
Fiax.-The fiax appears this ycar to hare been a rers good cron. For the last two weeks it is being deli;ered at the St. Thomas Flax Mills at the rato of any loads per day- Weighing on an arcrage a ton cach. Perine \& loung pay twelve dollars a ton for it-thus circulating about $\$ 600$ a day for the raw material.-St. Thomas zaper.
Hydnornobis.-A respectable farmer in the tornship of IIolland, named John Cowling, was bitten in the chin in the month of February, by a rabid dog. Last week a twiching of pain in the scar, headactic and restlestness presented tnemselves, and then the violent epasms which more particularly mark the progress of bydrophobia made their appearance, and hedied in the most intense agony.-Galt Informer.

Wimte Finct Wiest.-The British Constitution (Fcrgus, C. W.) says:-" We have been sherna a specimel of White Flint Wheat (full), grown by Mr. Smith Scaman, of Egremont. County of Grey, which weigbs sixty-fire pounds, full, to the bushel, and is a clean, good sample. This is good, we think, for that part of the country. A luad of it wras sold.
to Wim. Robertson, Esq, of thic town, on Monday, to Wm. Robertson
the 14th instant."
How Midae-troge Whest Yiflins - 1 correspondent of the Guclph Mercury, in Genrgatown, sends the following item to that paper:- " Tu remore the fallacy abroad with regard to the yiclding properties of midge.proof wheat, I would state that Mr. Freeman, adjoining thes whige, threshed 15 acres of the abore wheat last weck, foum whach lec had 330 bushels. A small quantity was lift unthreslicd, which those engaged in the work belies ed would have mado ont 400 bushels. But allowiag the was oaly 50 bashels remaining, this Fould gire aydeld of $2 j \frac{1}{3}$ bushels to the acre.
Tae Hor Cror. - We (lomelon Irce Iress) regret Lo state that tho hop crup in the Iondun township does not promise well. Lp iv at week past tho prospect was excellent, but suce that a black blight bas fallen upon the hop, leaf anil sta!ks. Tho blight is cansed by myriads of green lice which infest the plants, covering them in all directions. In former years the caterpillar nad hop grubs bave been tho chlef caemy of this growingly-jmportant crop, but the taroad of the green lice is cntirely new in this
part of Canada, though_fregucntly to Uc ecen in the

A Rare Smeer-Captain Collins, of the ship Seringapatam, who has just arrived at this port from Alexandria, has brought out with him a fine specimon of the Cape sheep from Palcstino, tho tail of which is nearly balf thesize of its body.-Qucbec Mercury.
Sare of Thonocga Bred Stocs.-We learn that Ifr. J. Ashroith, of Quebec, who is rell knorn as an importer and breeder of pedigree cattle, has recently sold to J . A.Serell, Junr., M.D., of St. Albans, his Shorthorn bull "Lord Languish," by St. Valentine, $4,318{ }^{4}$ out ${ }^{\text {Lilla }}$ Languish," by "Cirus," 17,337 . Several of his thorough-bred Berkshiros pigs have also been disposed of to local agriculturists and breders in the Statco. We understand that with the removal of the Government to Ottama, Mr. Aehrorth intends to transfer his breeding establishment thither.
Mul Sronx,-On Tuesday, tho Sth inst., a hail storm passed through the Townships of Normanby and Egremont, doing great damane, more especially upon the farms of John Rovertson. Fsq., on the 2nd concession of Normanby, Mr. McGilliuray on the 3rd. and Mr. McFarland oll the 1st concession. When the storm commenced, the hat-stuthes ware as harge as an ounce ball, diminishing in siac as it paceal castward. About 100 bushels of whet wetedestruyed on Mr. McGilliv ray's furm, beshes uthes grain on Mr. IRobertson's, peas, oats, harley, and wheat
were threshed from the heals so that the givurd nas covered rith grain, and one field of late-sown oats was completely destroyed.-Guclph Mercury.
The Tcrmp Worn.-The worm that was so destructive to the turnip crop last sear, has again made its appearance in this neighbourhood. The animal is deposited on the under side of the leaf, and is little more than one-third of an inch in length, but grows rapidly. In tho early state of their evistence they appear to bo gregarious in their habits, licrding together and sometimes migrating in a boily from one leaf to another. This is the most suitable tume to destros them, Fhich can be dono by pinchins on the leaf, or part of the leaf, to which they adhere. In this way thonsands may be destrused in a few minutes. Those whose roots were infested with them last year will at once admit the importance of cither cure or preventative for the pest of the turnip crop.
Some fields in this neighbourhood have been scrionsly injured bs these pests.-Gudph Mercu:y.

Tme Crors ne Ccinoss.-An exchange paper says: A correspondent in Teeswater kindly farours us with a few facts about the wheat crop in Culross and adjoining townships. He eays almost in every casc the wheat crop is excellent. Mr. James Fraser threshed last reek 15 acres of fall wheat, which yielded 35 bushels per acre. Another field whech was sown carly yielded 10 busbels per acre. There are no signs in that section of the midge. The spring crops also look remarkably well. Tho scason has been most propitious, no frosts, and warm rains erery week. There is a large breadth of land preparing for fall wheat this season, and if the yicld will be anything what like it is this year, it will amply repay the farmer for the dificulties he has to contend with in former years from bad crops and bad roads. If the new road scheme in Brnce is carried in!o cffect, the latter diffealty will 300 n be overcome.
Tie Flix Crop of Oxford. - The effort mado by one townsman, Mr. J. II. Bromn, to promote the cultiration of flax in this section, has been eminently successful. This is only the sixth season given to the derelopment of this industrial branch, and, so far, wo bolievo the resalte hare becn mosi batiafuctory. - Out of the seasons mentioned only one did not supply an arerage crop, whle two have far exceeded expectations. Thus, from the insignificiant experiments of a few patches, the cultare of flas has increased through tho cxertions of Mr. Drown, to count now by hundreds of acres. Nor is the growth of fiax depending altogether this scason upon Mr. Brown. Nearly six hundred acres aro on private onterprise, which, With what has been barrested by
Mr. $\overline{\mathrm{Brown}}$, will raiso the oreadth of this Jcar's flay to sixtecn handred neres; and what is equally satis:factory, the produce of Oxford in secd and abro commands tho bighest market price; only those who bave talen the pains to collect staustics necessary, important branch of agricultural wealh. The prospect is that a good business scason is beforo tho nax pect is that a good business scason is beforo tho nax here wo might say, that no belter gare can bo desircd than the Gro acres grown within tho limits of the
corporation of Woodeteck, bs tho last named gentlecorporation of Woodinteck
man.-Woodslocle Times.

## Erititig שatcautugs.

syerican Mowers and Reapers ny Englasd.-The Rojal Agricultoral Society of England has yearly trials in tho field of certain agricaltural implements. At the Plymouth meeting a trial of reapers and mow. crs was had, and the first prize for the best aingle morring machine, and also for the best single reaper, was awarded to an American mannfacturer, W. A.
Wood, of Ioosick Falis, N. Y. The first prize for Wood, of Hoosick Falis, N. Y. The first prize for
Combined leapers and Mowers was tuken by a British firm, IR. Hornsby \& Sons, Grantham.
New Process for Mardenno Timer.-Tho Irish Furmers' Gazeltc, of Aug. 5, contains the following: -" A natire of Russia has discovered a process by which timber, though newly felled, may become so hard as to resist the influences of the most trying climates for an almost indefinite period. The most curious part of the invention is, that it docs not inrolve the use of chemicals of any sort, such as steceping in creosote, \&c., and that the process is upplici to the tree white growing. The inventor is nuw mahing arrangenents for the supply of his timber to milway contractors in England, and will not require any remuneration further than the amount which should be paid for ordinary timber, until the period shall have elapsed besond which the ordinary milway slecpers, telegraph poles, \&c., require to be replaced. The railway sleepers require renewing at intervals of from four to six years ; but the inrentor of the new process of preparing timber asserts that he will supply an article which need not be disturbed for ifty years.
Diseased Culls.-We gather from an English exchango that in several corn-growing districts of Yortshire, and on the Wolds, the growing crops of corn, principally of wheat, havo been attacled suddenly by disease. "Some farmers term it 'blight,' others 'rust,' ' canker,' and 'milder ;' but whatever it is, it is quite unusual for any such attack to tako placo in a dry season liko tho present. In wet years something like it has been known, but not to the cxtent now apparent. In many places, fields which presented a healtby green look a few days ago are now of a dirty-looking brown; in fact, the stram has died and not ripencd. The disease is not conflned to wheat, bat tho oat and barley crops are likewise showing traces of it. In flelds the most attacked, the appearance of the crop at a distanco is that of an immenso sleet of brown paper. There is nono of that fine golden tinge 80 characteristic of well-ripened corn. The Larrest has not yet commenced, but in a railway journey an old field here and thero is seen cut. This premature reaping is necessary by the discase just named, which renders the straw comparatirely valueless and the corn very small. In a ield two miles north of Malton, it is belicved there is not a straw that is frec from the disease. Tish brown. In a bclicr that the blight will spread. many peoplo are about to cut their unripe corn. Tho damaging effects on produce must bo very considerable."
Non-Esplosin: Gcmpowder- - A valuablo discovery has been made by Mr. Galc, of Plymouth, whereby gunporder is rendered nod-erplosive and exploaive at pleasure. The Field gires the following account of a scrics of experiments recently condacted by Mr. Gale on a piece of waste ground opposite the Westminster Palace Hotel:-.- At the appointed hour a numerous assemblago of scicatific men was collected, and Mr. Galo at once proceeded to show, first, that a mixture of equal weights of powdered glase and ganpowder renders the latter of siow combantion, but
still explosive, that is to say, slowly flashing op to the last grain, secondly, that a mirtare of two part of glass to one of powder is atill alower; thirdly, that
a mixture of three to one is 80 slow as to be scarcely a mixture of thrce to one is so slow ss to be soarcely atlonded with any danger when lightod, bat
when four parts of gluas to one of powder are mixe
oren a rod hot polcer inserted in the compond will orca a rod hot poker insertod in the compond Fill
only set aro to tho grains of ganpowderin immodisto contact with it
 adopted the singlo grains of powder are. 50 isolated by the glass that When one of them is oxploded it bours to communicato sumelent beat io component clements. Thas far, therefore, wo have arrived at a clear demonadration, that the miriture of four parts of lat fourfold,-renders the mirtare nop-explonve-and

## Exultry anard.

## Pigeons.

Taese intercesting birds have been known frum the carliest ages, and the most refined and elevated thinkers that the worll has scen, hare not disdained to illustrate enduring affection and constant attachment by the figure of a pair of turtle doves. The dove, we are told, was consecrated to the goddess of beauty, and a pair ofturtle dores or two young pigcons were a mother's first offering among the Imraelites of uld. The rearing and management of them is a delightful task to the juvenile members of a family, and the lebsons of lore and concord they may leam in these labours are many and important.
The practice of rearing tarious kinds of pigeons for fancy or amusement has long been preralent in Fagland, and the "dove-cot" formed a picturesque appendage to the family hall in times as remote as the frst Crusade. At the present day the pigeon-cot caps the house tops of many of the most densely popalated citics of Europe. "ligeon-fancying" is therefore as universal as it is interesting.

Pigeons live together in pairs; and when a cock and $a$ hen form an attachment, the union is generally permanent. In its wild state the pigeon breeds only once a year; but the domesticated kinds will breed every month or six wecks. In fine weather they will provide food for themselres; but when the ground is covered with snow they must be fed. They are great devourers of food, and will cat any kind ofgrain. They are very fond of lime andsalt which ought to be supplied to them lib. erally. Whaterer number of broods a pair of pigeons may rear cluring a trielve-month, the hen invariably lays two cges before she sits. The period of incubation varics from cighteen to trenty one days. The labour of hatching is shared between both birds. Tho
bea generally sits from the afternoon till the following morning, when the cock takes her place, and usually remalos on the nest daring the greater part of the day. When hatching is completed, tho yonng only requiro warmith for the firat threo days. This task tho femalo wholks supplics and nerer leares them, except for a

elerated to the desired height. A Farminh situation should we chosen as the site of the "cot." and the pole on rebich it is fircd should haro a circular plate ring half way up to keep cals and other vermin from ascending. Tho lop of tho cisk masy bo thatched ar
hoarded and the roof should descend ofer tho caves. arded nnd the roor should descend ojer tho capca
brice yhuce to the fuod. For the next ten days they fod ly ' g andular secretion, of a milky nature, elaborated in the crop of the parent bird and regurgitated. . .fter this they are fed by what the old ones pich up ut the fields and treasure in their crops.
The dovecot pigeons, as well as the undomesticated buricties, retire to roost at an early hour, learing it usually somewiat late in the morning.

Pigoons aro sabject to several discases, and are also frequently much troubled by vernin. Of the the former, the principal are the meagrims, the wet and dry ronp, and the canker; of the latter, thek and lice are the most destructire. The birds should bo frequently examined. The most scrupulous attention should be paid to cleanliness both in the birds themselves, and in every part of their houses, nests, and places of resort. At moulling time, when they do not turow off their feathers freely, a little bempseed should be mixed with their food, and thes should be kept a little warmer. These precautions, with the vigilant surveillance of a kind hesrted proprietor, will ensure success to the "dove-cot," and repay the owner for his trouble. There are a greal many varieties of whatare known as "fancy" pigeons. Many of them are very rare and dif. ficult to procare They become much attached to the cot of their choice, and no good purpose would be served by enomeraand can scarcely be banished from it, except by the use of tire-arms. The "cot" may be constructed of any size and slape; but care should be taben to flx it in some quict secure spot. I small one may be conveniently formed of a large cask, by cutting apertures of the proper size in its sides, and by fixing a small platfurm before cach hole as a restingplace for the birds. The interior of tho cask should be appotioned into chambers loy means of amall wooden p.rtitions, and the whole may then be secured to a stout thick pole or trunk of a tree and

They are not, as their name might scem to imply, used for conveying mespages-a duty which is perormed by the Smerles, Antwerps, and Dragons. The Carrier is designated tho "king of pigeons," and "ita characicrintics of clegance and streogth appeal to the fancier's cye."

Our next illustration represents the Pouter, the Marmet. and the linn. The Pouter is a fine handsome bird, distinguisbed by the peculiar size and form of the crop, which the bird is able to distend at pleasure. They are diffentt birds to rear, as, being very voracious, they are liable to ower-feed them selfes. When a Pouter is unable to distend his crop handsomely he is considered a defective hird. The Mawmet, or Mahomet is supposed to bo the kind of bird that whispered in the car of the bogus Arabian prophet. It is a beautiful bird, of a cream colour, having bars of black across its wings. The Nun is a fine bird, and much esteenced by fanciers. Its lead is almost corered with a veil of feathers, from which circumstance it derives its name. "Its body is chiefly white ; while its head, tail, and the six flight feathers of its wings shouhd be enturely red, yellow or black. When its head is red, the tan and fight feateres should be red; and when the head is gellom or black the trih and hight feathers should currespond with it."

## The 穻的usthold.

Fiencia Corfer, and Enalisa Tea,-Mrs. Stowe describes these most appetizingly
In the tirst plaee, then, the French cofle is coffee, and not cliccory, or rye, or beans or peas. In the second place it is freshly roasted, whenerer maderoasted with care and evenness in a little recolving cylinder, whech maties part of tho furniture of every kitchen, and which keeps in the aroma of the berry It is never over-done, so as to destroy the coffec-flaror, which is in nine cases unt of ten the fault of the coffee which met with. Then it is ground and placed in a we meet with. Then it is ground and placed in a
coffee pot with a filter, through which it percolates in clear drops, the coffec-pot standing on a leated stove to maintain the temperature. The nose of the coffecpot is stopped up to present the escape of the aroma during this process. The extract thus obtained is a perfectly clear, dark fluid, known as cafe noir, or blact corre. It is black only because of its strength, being in fact almost the rery cssential oil of coftie. A tablespoonful of this in boiled milk would make what is ordinarily called a strong cup of coffec. The boiled milli is prepared with no less care. It must bo fresh and new, not merely warmed or even brought to a boiling point, but slowiy simmered unth it attains a thick, creamy richness. The coffee mired with this, and swectened with that sparkling beet-root sugar which ornaments a French table, is the celebrated cafenu-lait, the name of which has gone round the world.
As we look to France for the best coffer, so we must look to England for the perfiction of tea. The teabettle is as much an Englash institution as aristocracy or the prayer-book; and when one wants to know exactly how tea should be made, one has only to ask how a fine old English housekeeper makes it. The first article of her fath is that the water must not merely be hot, not merely hare boiled as few momeuts since, but be actually boiling at the moment it touches the tea. Hence, though servants in England are wastly betor trained than with us, this delicate mystery is seldom left to their hands. Tea-making belongs to the drawing-room, and high born ladies prestde at " the bubbling and loud-hissing urn," and see that all the due rites and solemnitics are properly performed - that the cups are hot, and that the infused tea waits the cxact time hefore the libations cominence.
Sxose for tife Ccrar of Wocnds. - $\Lambda$ correspondent of the Albany Cuuitry Gentleman reco amends smoke as a curative agent for wounds in men and animals. He sajs:-"I cut my foot with an axe. The lady of the house, seizing the foot while it ras jet bleeding freely, held it orer a pan containing amoking tag locks. In a few minutes the bleeding stopped, the smoke tras remored and a bandaze applice to protect it from accidental blows. The wound nerer sup purated, and consequently never pained me. I have peen tre remoly tried in many similar cases, and alkays with the gane result. Let tho reader bear in mind that no liniment or salre, drawing or healing, should be applied. lou have merely to smoke the wound rell and nature will do the rest. I suppose the smoke of burning wond would produce the same resalts, but it rould notlee so manareable. There is a principle in the smoke of wool, which when appleed to the Qesh, coagulates the albumen, thus rendering it unsusceptiblo of putrefaction. The saine principle atopa blceding by coagulating the blood. It promotes healing, and may bo applied with decided


## New Annuals.

To the Elitor of The Casima Famen:
Sir,-A few notes respecthy some of the new mnuals of this season and last, may not be uninteresting to some of your readers.

Reseda crystalina.-This new mignonetto is more robast and spreading in labit than its older relations, and the flurer spikes are mure elongated and pointed, and without any of the red tinge existing in the old varieties. Calike, and inferior to them in one respect it possesses no odeur, and therefore lacks the greatest charm possessed by the older rarieties. It, however, stands the heat better, and works up very well into boquets. The sceds are perfectly black,-why t should be christened crystallina, I know not.
ITeliplerum Sandfordii is a new and pretty dwarf crerlasting, growing about 9 inches high, and flowering in tufts of a bright jellow colour. It will be very uscful for boquets, during summer or rinter, as from its neat habit it works in beautifully.
Ihodanthe atrosanguinca.-The finest of all this handsome family, of a deep crimson colour, and more robust in habit than any of its genus. Makes a fine contrast to the plant above mentioned, and like it, is also an everlasting.
Polycolymaza Stuartii.-Another everlasting, neat in its habit, and with white gowers. Works up well with the two preceding ones. The seed is apt to crainate badly. All the everlastings should be sown in frames or hot beds, and afterrrard transplanted where they are to bloom. The forrers should be cut imnediately, when fully expanded.
Portulacca splendens, A. pl.-Double flowered Portulacca. The gorgeous anpearance presented by a bed of this beautiful novelty, is almost begond description. It is really a magnificent production, and I hare no doubt when the sceds become cheaper will be generally planted. We have now tour colours,-white, crimson, scarlct, and yellow, and as our scedlings come more into fower wo hope to ge other shades. The brighter and hotter the weather, the more bloom is produced. This must become a general farourite. It groms from tro to three inches in height, and spreads considerably.

Chrysanthemum carinatum.-The purple and scarlet varietics of this showy florer are an acquisition. While being quite as shory as the Ziunia, they are more compact in habit, aud, with very ornamental foliage, make a fine bed.
Chrysanthemum coronarium-The double ycllow, and double white varicties are very handsome, and worthy a place in every garden,-and look well in $a \mathrm{mixed}$ border or in beds.
Tageles signata pumila.-The new dwarf Marigold, growing only 4 to 6 inches high, and with beautiful toliage. This makes a splendid bed or border, also a fine row for the ribloon system of planting.

During the preseat season, as the different varictics come into flower, I will add to the present list, if acceptable to your readers. The abore descriptions are giren from the phants at present in bloom in ou
grounds. St. Catharines, Aug. 2, 1SC5.

Graps fou Whstemi on Nomthers Astect-Dr. Sclorocdrr, of Blonmingtinn, 111, in an lissay on the Planting of Grape Vines. read hefore the Mo. Hort. Socicty says, alter recommending Southern, Southcastern, South-western or Eastern aspects for vineFards. - "IT on hills, and they are not too high or too steep, a Western, or even a Northern aspect might do. I have seen Coacords and Murtford l'rolitics grown oin Northern aspectsand they bave done finely. The frnit was larger and richer than either of these tarieties dare to lie when grown in any of the Eistern States. Therefore, ii you have to use a Western or No:thern aspect I would adviso yout to choose these linds. In stoh caso I would advise you to run gour rows Dorth and South, Fhile on all other and West, cspecially if you uso trellig:"

## New Evergreens.

There are a few erergreens that are either new or not well known, but yet are so rery desirable that it may serre a useful purpose to name them here
Among the Fir tribe, the Siberian Silver Fir (Picea pichia) is very hards and very beautiful; it is trnly an evergrecn-a bright, shining, glosay crergreen; for many, as you krow, hare a rather fuscous tinge in winter time. Among Sprunes the Menzics'Spruco (Abies Menziesii) is a magnificent hing thesifvery under-surface of the leares is freoly cxhibitect, through the habit of the shoots being somewhaterect; and in contrast with the green upper surface; prescnts an appearance that always intereats the componest beholder. Tho Douglon Spruce (Abies Donglassii) is another admirable plant. In summer, when the growth is not fully mature, the plant at a.jittle dis tance secms enveloped in a strange mistinces, which gives it a sort of fafry clegance none other has. OI the dwarfer trees Oupressus laucsoniana, and Thu opsis borealis, are admirablo evergreens, and among those of atill dwarfer growth, the Thuje ericoides, the best of the hardy dwarf evergreens ever introduced. -T. Merean; Eaitor Gardener's Monthly.

Top Drisslig for Strawrirries.-Sapposing the land to be in good vegetable condition and deeplyudag, I know no dressing which will so delight the straim berry, as a heary coat of dark forest mould. They will ; and their littlo abrous roots nerce them as we longing for the dark unctuous odour of monldering forest leaveg.-Cor. Mass. Ploughman.
The Toumto 15 Food.-A good medical authority ascribes to the tomato the following very important medical qualities:-1st. That the tomato is one o the most powerful aperients of the lirer and other organs; Where calomel is indicated, it is one of the most effective and the least harmful medical agents known to the profession. 2nd. That a chemical catract will be obtalned from it that will supersede the use of calomel in the cure of disease. 3rd. That he has successfully treated diarrhoea with this article alone. 4th. That when used as an article of diet, it is almost sorereign for dyspepsia and indigestion. 5th. That it should be constantly used for daily food. Either cooked or raw, or in the form of çatsup, it is the most healthy article now in use.

Grelt Prodectign of Strawberrdes.-Tobins Grublb, of this village, had a bed of strawberries this season so wonderfally productivo that I think it is rorthy of public notice. His bed is 29 fect square, and he set his plants on the 7th of May, 1864, 1\% plants each way-making 289 plants in all. From these plants were picked, this summer, 292 quarts of berries, or nine bushels and four quarts-or more than a quart to cach plant. Mr. Grubb is an aged gentleman and an invalid, and made this bed his special care. The plants were kept in hills, all the runners were pinched off as soon as they appeared, and the whole bed kept as clean as possible. The plants were of the Wilson variety. If anybody can beat this, I Fould like io hear of it.-B. G. Dدrid, Sageriovon, Crauford Co., Pa., in Rural Neo Yorker.

## Docbla Glazed Fraurs for Exclicding Cold.-

 There are so many persons who desire to save their plants during winter, who have no means of applying heat in any way, that I think I may do them a service by bringing to their notice the plan I hare found so very useful-viz., a double frame to keep out the extreme cold. This idea I obtained from seeing double windows employed in several London houses, in liccadilly, and the west of London generally, to keep out the noise, and maintain the rooms at a more cquable temperature. Knowing well, as I do, that a stratum of air betseen two glasses will keep out noise, heat, and cold, the adaptation of this principle to preserving plants in winter is not very surprining; and haring in practice for two or three ycars proved its value, I now bring it befors your readers in order to verify my discovery, or rather adaptation, of a fact well known. I havo had my lights made with a very broad frame, so that two sashes can be made upon it -one under, one over-so that they both lift at the same time, rben it is necessary to give air to the plants bencath, I bare some of the usnal-shall I say old-fashioncd!-glasses, the snowihas fallen upon them, and I find a very marked difference in the melting of the snow. The snow rapidly disappears from the ningle lights, hut on my donble sashes it remains. I pill not go into the scieace of radiation, conduction, ransmission of heat, fo., suffico it to say to a gardoner, that with a doublo light the cold will not go light-" Septimus Piesse, Ph. D.," in Journal of Hor.
## 2atarkets.

## Toronto Markota.

## mada Fakmzz" Oilce, S.pt. 1, 1865.

The weather for tho past fortalght has been most favourabie for the Ingathering of tho hountaiul harrest with which we aroblessend The graid crop is now pretty well secured, and only oats and hate morn grala are out. Tho state of our market a short tume ago was erceedlagly dull, and but few transactions took place. Thithin a few deje past, owing to adrances In Niw Yorle, and accounts of unfroombio weather and crope in tho West and in England, tho graln and tour markot here becamo rather exctied, and priees were rery firm, with an upwarl tendeacy. Stocks are so small, how cror, that although the foelling ts good, operitions aro resticted. Extra grades or hour are In actiro demand, but very scarca. Tho eftering or the now crop on our street market, as yct, have been very emall, but prices here, as well as in other parts or the Pro rioco, haro bect good, apd will hapdsomels repay the farmer for his graln and other crops. Lrse stock has been bought up wilh great and dity by tho Americans in all parts of tho Province, ngard less of grado or speclos. Good catlio aro scarce and it gout price now. Beef and other meats are alightly higher.

Fow-market dull with few transactlons; No. 1 supering at $\$ 460$ to $\$ 480$; extre do. at $\$ 520$ to $\$ 505$; zuperior catrant $\$ 5$ io Fell Ficat in falr demand and steady, at $\$ 1$ to $\$ 122$ on the Higher.
Barley activo, at 66 c to i2e per bushel.
Peate sterdy, si 65 c to 80 c .
Oate in good demand, at 30 c . 1035 c .
Corn unchangcl.
Prortsons-improring; Dutter good supplyatioc. to 29en per lh. for rolls wholesale; dalry; In tube, 15 c to 100 per lle.
to 16c per 1 lb .
on the marict steads, wuh fair supply; fresh 130 per lozes
On the atreet (nevo)-Mentiful, and of excellent quality, with fats

 1b. Find quarters 1sc jerlu, fore quarters Sc iper 1 ck
\$4 to $\$ 480$; inferior, $\$ 3$ to $\$ 380$; calres, small supply, $\$ 4$ closs $\$ 7$ car ; radr quantlity in tho market; sheep, $\$ 300$ to $\$ 1.00$ cactr per Bay-in good gupply at from si to $\$ 10$ per ton for new, old
carce and higher. Peterboro' Marlicete, August 23. Flour, per barrel, $\$ 5$
Fall Wheal per busbel, \$1. Spring Wheal per bushel, 80. Pocatoes, per bashel, 800 to 40 c . Bariey, per bushel, 60 c to 65 c .




 Turnipe, per $5 u s h, 20 \mathrm{c}$. Woot, nece washed, 500 to 600 . Dutter,
 He, Cathmertmen Waricetw, August 29 .- Frour, per 100


 to 3360 .
 to 30c Spring theat, 35 c Barky, 80 c to 60 c Oats 30 c





 par 100, $\$ 8$.



 boller, bat after irro North Anvwith's news the market becano hary, and clomed dulat about the inalde quotations; sales 16,000
 and op to to so for common to good shlppling bremdite extrativin

day's priters; salcs 40,000 busheig, at $\$ 160$ for Inforior Chicago
 ber state, and $\$ 21510 \$ 218$ for amber Mchigna Rye quiet
Darley dulh. Corn-Ifcclpts, 78,635 bushels; markst oponed irmer, hut cleapl dull at nbout previous prices; sales 60,000 bush. at 9je to gic for unsound, and 9ic to 973ac for sound mined Wes luavy but ctused tirm, sales 6,000 bhrrela, at $\$ 3250$ to 83275 for


## caduetistuturs.

## PROCEEDINGS

## TH

TOURTII AN:UC.II. MEETING of tho BEAEAER TETTHAL C FIRE INSURANCE ABGOCLATION, held June
5, 1505, whl hicport of tho Boand of Directors:-
 I Chadestek, Fsiq ; Manacing Director: S. Thompson; Boasd of IInscrors Richard J. Denlson, Lpplacott; C E. Chaluick, lugershl, A. Barker, Jarkbam; Hon Olirer Blate, Tomuoend, Hua. J. Hillyand Cumeron, Toronto; D. Camplell, Ammate; Jos. IW. Collins, Newmarket, W. Henderson, Toronto; H. Ronsell, Toronto; John Snell, Edmoutun, Gcorgo Snider, Owen Sound; F. K. Stone, Cucipl!; D. Sutheriand, Newmarket; D. Tharston, Toronto; S Thompson Secritart and Thengeng: T. J. Thompoon; Gimaral cest and Laspsctor: John Blackburn.
At tho Aunual Gencral Meetidg of the members of tho BEATER MUTUAL FIRE INSURANCE ASSOCIATION, held at the Head omec, 20 Toronto street, Toronto, on Monday, Juno 6 th, 1865, R. I. Dentson, Esq, in tho chair, tho Fourth Abnual Report of the Board of Dircctors was read by the chatrman as follors:-

## REPORT:

The Directors beg to lay before the members of the Bearer Sutual Firo Insurinco Association thetr Thind Annual Propost. For tho nast three fcars tho amount of businces done by this

Lesi dechred and expired.................................... $\frac{\text { 2424 }}{7563}$
Total Pollcies in force, $3051,1865 . .$. ................... 7321

$2,382,240$
$6,125,982$

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By examining the above simple tables, tho mombers fill 800 at i glance, that tho procress mado by this Association hat been tivy of tho liko cbaracter has crer nado more rapid strides in public fivour. When to this wo add, that this Amociation hale never hed Out two sults at law, ono or which was eotlled by arbilention, and
the other resulted favourably to tho Company to the extont of tho other resulted tarourably to tho Compang to the extont of a
largo reduction in the amount clatmed for a very doubifol jows by Aro, and further, that at this momoot, there is but one setued clalm unpald (Dot being yet due), wo hare sald quito enough to its extly well uissoclation has amply fuimed tho expectations of its canly well uishers, and established lia userulaces to tho farming
community; to which its operations aro limitod almost anuroly jus wo have, ueverbeless pot beon without our disappoint meats. The scason of 186t-' las presed ecrerely upon Insuranco Cumpanies of all hinds; and this Association has not been ablo to avold mang losses, amouning to a large num in the whola The clams for losses by firo during tho past year number forty Hur, amounting $\$ 0 \$ 12,34215$. or these thirty-two haro been pail In onio caso tho Directors refused to recosniso the claim, as whe insurcer falsely swort ho was tho owner of the property insured, murh sacpicion surrouads the cascs, and no final dectaion bas becn artred at Tho remalning cases aro in conurse of setilement. Ono Iro during the ycar was causcil by arson, the insorer belog caught in the act of Arigh his baro. Jlo was arrested and tried at tho lasi Call nesizes al liorigual, but 'was acquitued, as be was under the infuence of liquor at the tinc, and had destrosed a largor amount
 chims havo liacrgoco a thoroughiarcatigallon by the ireinepec in s, ad a saring of upralas or choo way croctod Clajmants are trying to obtala a larrer sum than they are calited to and it quires tho utinost watchrulness to prerent fraud.
In hiree instauces investrgations haro beon held beford a coroner or magtstraio in suspicious cases in ono jusanco eridenco ras obtatned whercby tho clalm kis reduced \$375. In another in stince, s 100 was saved; in tho thini caso no saring was edfectod. Your Direciors regret to tay that incendiartam is fonud to hare ocen tho clicer causs of tho unugualy lafte gumber or aree that
 zio hoard would recommend that a rewand or s200 bodered fo which torm ion as rill icad to the coar of checking thit emoring - In

In conseqtanco of these untorfand circomentapong, jour Rown

do : and although tho nmount of Indebtednces is not rery lmpor. lunt, it is to bo regretted that tho Aesociation should be chargeabio With Interest on thls score, thus increasing tho expeases, and of co: ane the cost of Ineurance. ITad the members peld yp thelr
duee promptly, thls oxponso would hace been gaved The bed harrest of last sear is no doult fairly charcoablo writh the delays in payment of notes and assessments which hare provel 80 general and inconvenicnt. As yet, not a dollar of cosis has been incurred in the collection or promtums Our operatlous in thls respect bave been much fachitated by our oun Special Act, and by the Mutual Insuranco Companies' Amendment Act of last beadon, Bhlch by defniux the pisition of defaulters, nnd invalldating claims on account or unpald premium notes overduc, hare rery materially institutions. Your board would dasiro lo givo a word or caution to members horoughly protected, which is tho frequene cause of Ares. Thit pracifoo crectually vitiates tho policy, anu it will be Impoedble for the Board to sanction payment of losises arisligg from this cause. Smokligg in or tear larns or stables is also a most dangerous prac llea Hembers desiting to mahe alterations and emplosing carpenters to work on their premises ane required to nolly the secretary thereor, and tu juy an treseased premilum of any cents per monh for cach $\$ 500$ insured -a very moderate charge.
Up to the present date, the cost of insurance under
 but the members must not to surprised to find, that a larger suedes. ment may possibly le required afier harrest, to corer the excesalre losecs of lant winter, and pay of tho debt incurted in consequence. Show - tho summer pass away favourably, this increased amess. ment may bo rendered unneccssary i but every member is already trarc or bis lavility to such a call, and will, it is hoped, cheerfully tion hara leen conducted with rigid cconoms and it can only bo In the intarest of members themsclecs that any further demand may bavo to bo made
Tho electlon or Dircctors on this occaslon will be governed by only are Directors aro required to bo elected in each year Fire of the present Directors, Hessis Sutherland, Blake, Campbell, Collins, and Chadisick; will remain in olllce untll the next Angual Moeting, Other are, Messer Denlsod, Ronsell, Cameron, Thanwon,

and Henderson, have beer balloted to serve unth the follomine year. The retiring Directors are Blessin B. W: Smith J. P. Bnil Blackburn and Thompon. The vacancy occasioned by hoiamented death of tho lato lreskent, Cul. F. W. Thomson, has also to be blled up. Whito alluding to this last rircumstance, your Board cannot forbcar expresstng their admiration of tho character of the decoased, and their deep rearet at the loss to tho community, and tothis Assucianou garticularly, or has valualio and esioemed erer| vices |
| :--- |
| 000 |

Ono of tho retinng Directors, Mr Join Whack burn, has performed the duties of Firo Inspector se, cllelently, that your boand have felk that tho As\%oclation ought to have tho benefll of his jermanent Agent aud Inspector, which ho has accepted
In consequence or tho fuauzumation by the Auditor Generals Department of a system of ollicul returis from Insurabce com. papies, withch it is proviblo will be rendered compulsory during the appromeljing Lagisjatiro Scssion, juur Buand recommend that tho power granted under chasiol 1 or the Special Ach to alcer the day nased by their successors namu acheu upol, and hat a by.inw be for that purpose, 8025 to canlilo our inand yar to clomen the \$1st December, abd thus put a stop to ans unfair comparions Detween this and other companice, artsins out of the differencen of period at which annual mecuncs take wace, and your Board aro rejolcod to find, that such neturns aro hercaner to to made under ath, a precaution rhich tho cricmis or tho past two gears havo shern to bo necessary.
The total casli recejpts for the ycar have been $\$ 16,83444$; total proilicy is $\$ 700$. Arerage annual jayiment under the promlom note ygicm $\$ 175$ : cash ssstem $\$ 210$. Tho total number or cath $\$ 441050$; other losses, $\$ 6991$ 97, includug all paymente for
 (Slgned)

Toronto, Juge 3r, 1865.

## 12 L. DENTSON, Pravionk 2. THOMPs0N Managikg Eirector.

The Chalrman haring mored the adoption of the Report it was carried unanimousig, and the same ordero
Messers Holland and memuers and others.
or tho cument sear. Tho Chairminn not to audtt tho acoounte Thompson and I A. Willinson as scrutioners who prece T. J. collect tho votes of tho members by halloh fur the electlon of ire Directors, in the place of thoso retloing in accordanco with the provisions of the spectal act of last session. The gcrutinewirs reorwa tho followiaz gendemen as duly clecied:-S. Thompoon, reo. Salder, F. W. Stone, Jro. Sncli, abd A. Iarkcr, Esquires. ander the custom
inceligg separated.

At a meeting of the new Board of Directors held subsequontly, Richand La Dentson, Fin, or Kippincoit, (Treasurer of tho ProFincial Agricultural Associati ma, was ciectcd l'resident, and Chas E. Chadrick, Esq, or ingersoll, was chosen Vico-Predident of the Assoclation for tho cosuing ycar.

REASCRERS STATFMENT OF CAST RECEITS AND RTPEN. DITURE FRON TIIF: IST UF MIN, 1SG4, TO THE 30TE OE AIRII, 1965 snctums
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STATEMENT OF ASSETS AND LIABLLITHES, 30TU AIRII, 1965.
Prembom Notes (1css nsect Lsaris.

| Premlom Notes, (less ascesiments radd) | $\begin{array}{r} 550,0043 \\ 92 \end{array}$ |
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|  | \$11,093 94 |

## ALDITORS' REPORT

To the Boarin $f$ Directors, Beares Mutwal Fire I rsurance Asociation GLinizmas-Your Auditurs leg respectfolly to neport that the coriecty kept that tho annexed atatcment reprecnis a faithnit and accurate abstract of cash recelpts and cxpenditure of tho Company to the year endicg tho 30 hi of April last.
Tour Aucitors Usa to consratulato tho Company on lis continued success, and its very large increase of business since ilie last audit and base much picasure in varing tesumons to the ravadio as istanco allorded licm by 3ir. T. J. Tis All nhicla li resperifully sulumiued.

Yuar obedicot rerrants


Sec á Ireas

## MILLER'S

Celebrated Scab \& Tick Destover, NO12 SIENP.


Tills prepraioun is a certaln remeds for remoring theso deL structivo affections Every day inings additionalicstimony of its thorungh eltccuriness fiofluch master should be without it. yerparod oily liy

HLGH MIIIEER \& CO.,
Chemists, Toronto
Augutt 1,286 á 12.20-32

DAIRY FARM FOR SAIE, OR Ry:NT ON LEASE.

400 ACRE: near TrOOISTOCK, Co. of Osford, with extensive

 run a Clicese factory. Also, 100 ACRLES nat F.MB1RO, Co. of Ozfon, wht coestdrjaile improvements
For partcutars appls (most-nald) to
JOIN DESLOP, Bouth Zorra, C. W.
Augax 1, 1865.
8.25-At

 1 Implement on thu farm,-fur a'l hinds or new land, a land cncumbered with rools and stumpa it is an absoluto necessary, and ts costrong, that it uill pass over tons without lajury.
For Sping uso ancr Fill plongling, nolling can comparo wilh it-the draught is Hebt, and an ordinary team will culicate nro acres once, for two and a lailf acres once and acrass) in a day. Apply, past pald, to tho fratentec.

## PROVINCIAL

## EXHIBITION

 or tux
## agRicultural association

of upper caivada,
TO BE HELD AT LONDON,

## 18th to 22nd September, 1865.

DERSONS Iatending to exbrbit will plase take notice that the ontries of articles in tho respectiro claseses must to mado with the Secreinry at Toronto, on or before the undermenilaved datee,识:
Horsez Catlle, Shery, Smine, Poultry, on or beforo Salurday, ロgu
Oraln, Field Roots, and other Farm Producta, Asticaitaral Implemenis, Yachlaery, and danufacturee gederally, on or vefore Hortlcultur
Hortlcultaral Products, Iadtis' Worty, the Fino Asts, \&e., on or acfore Salurday, Sepiomber 9th
I'rizo Lists and Blank Forms, for making the catries apoe, can bo obtained of the $S$ cretartes of all Agricultural Socletied and
Mechandes' Instutetes throughoot tho I'rornoe.

HCGH C THOMSON
Toronto, Augest 1, 1865.
2-15-36

## HEREIN MONTILLY MARIET:


 Crocid

ON THURSDAY, 3EPTEMCBER 7th, 1805, When Iremams, amounting in the aggrigato to $\$ 50$, will bo
anarded fur best Cutte, shicen, and IButter cxhititich awarted fur best Cathe, shceis, and Isutter cxhithited ner For partlculars sco Mandmils.

HUGO KRANZ,
Beriln, August, 1505.
Toner Clerk
STRATFORD QJARTERLY CATTLE FARR,
Tor tho Sale or nonses, C.ITTLE, SIIEEP, and other Farm S Sock and lroduca Deaiers, that tie next Quartery Farmery Cattle and Produce c. R., on Thuraday, Th Sejucmber, and Thursche, Fib December. T.' R. FULLEK, Scerciary. G. HORAE, Chaiman $2.17^{21}-2 t$
FLAX SCUTGHING MACHINERY, FITH JALLOKY'S baleNT IBREAK,
FOIRSNIEONMIME. APMIY TO
2.17-26
J. I. T.ITTOR
"BARON SOLWAY,"
Tha, Famoas Prizo Ball BARON SOLNAT, will be decod for 1801 sale at the Irotidetal Fair at London Ho was tmported in
 Dortain Bull of any ape Spocimons or hlastock will be et Loncon, whers 6 Ball Calres of ble get will to oteme for mile git RAmovion, Sept. 1, 1006

217-16

## DAIRY PACKED BUTTER.

## DODGSON, SHIELDS \& CO.

WTILL be prepared duting the coming seapon to pay the highest market price for any quantly of really

CROHCE DAIRT DBUTEER,
Pacted oner In September, and deliverod at their Eatablishment,
Cor. Yougo and Temperance Sta, tORONTO.

## MORETON LODGE.

 GUELPME, CANADA WEET.6th ANNUAT SATE OF PURE BRED
SHORT-HORNED AND IIEREFORD CATTLE,
Cotswold, Bonthdown and Iricester Rams,
BERKSIIIRE PIGS, AYLESBURY DDCKS AND DORKING FOWLS.
$\mathrm{M}^{\mathrm{R}}$ KNOWLES has receiven Instractiona from Yroderick Wm. Feq, of Morelon Lodge, Guolph Canside Weat, EO SIE Stone Seq, of Yorolon Lodgs Guolph

On Wednesday, the 4th day of Ootober, A cholco selection of about 25 bead of Young Bulle Cows and Edifars in good condillon, from his calobraiod horas of shori-

Aleo will bo offerod about to magnilacont Shearling and oldet Ramin condening of Full. Blooded Cornwolde, somindowne
 Berkichille Ply (Baina nod Sor:3) of the porest blood.
Trame -Undor $\$ 25$, cash; $\$ 25$ to $\$ 100,3$ monthe; oror $\$ 100$, Thaki -Undor $\$ 25$, cash; $\$ 25$ to $\$ 100,3$ monthr; ot
6 montha' crodit on approred endorned nolien, 17 requireti.
Salo to commence, with Pige and Poultry, at $10 \mathrm{mm}$. . ${ }^{\circ}$ Luncheod at 12 Salo rememed promptif ani i p.m.
Calalogues, with Podigrces sud other rarticulary may bohad on application to or or Me KNONLES,


 Na. 26 and 28 King stroo Each Toronto,
nlatlons for the paper must Do eddremed
se Subecription Prico $\$ 1$ per annum, (Pootian Fiaka) payable In advance. Hound volumee for 1864 may be had for al. 30.
 coived for fom than a jeer, and all commence with the frat number for the respoctire years.

Curas will be farmindod at the following rated:-
Twe Cors for.......................... Naxis Donsure.
Foert Corms for........................ Trustr Dowase


 line No Advertimment chan-ond linch than 82 , bely ten llaes of epact.
 paper estobe the
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