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## Elite ficla.

## A Combined Drill and Cultivator.

We herewith present our readers with an illostration of a very useful implement, or rather two implements in onc, invented and patented by Mr. B. W. Walton of Kettlebs. The Cultivator, as a separato Machine, has been in use for upwards of threo jears. It is therefore pretty well known, and, if desired, can still be obtained from the patentee without the sowing apparatus. The patent of "The Farmers Friend," as the combined implement has been aptly designated, beart date, Jitg 15th, 1855. A pretty numerously signed testimonial, which Mr Wal ton bas formarded for out inspection, states that the implement works in a highlysatisfactory manner; that it is of a comparatively light draught, and may bo managed by one person; and that, bearing in mind, the iwo important operations it performs separately or together, its priec is / way, and under the most fuvourabie co ditions, mang | very moderate. The implement, wo understand, will accidents and unfore=cen circumstances may diminish be exbibited at the coming Prorincial Fair, and the the farmer's harrest returns. Tho weather and the price and ans further particulars mas be obtained of the patentec.


## Drill and Broadcast Seeding

The soring of the seed is manifestly one of the unost important operations of hasbandry. Much of the pre vious labour of the farmer goes for nothing, if the seed be not properly sown at its appropriato timo. It is true that sven after he bas dune his hest, and committed his geed to tho soil in the must approved
 requires for tho most perfect germinotion and thus also prot- ots them from the vorscity of birds or insects, ho will have a much greater prospect of success, under all circumstances, than if he were careless or negligent." I'be most common mode of sowing in this country is by scattering the secd broadcast orer the plougbed surface of the soil. By this process there is no ceriainty of the seed being uniformly coverod.

Experience teaches that harrowing is only an imperfect method for effecting this object. The harrow burics somo seeds too deeply, others not sufficiently deep, and a considerablo proportion not at all. To ensure a full crop, therefore, the farmer is obliged to scatter an additional bashel or moro per acre, than would be necessary, were a machine emplojed. It will he obvlous, on a little reflection ard calculation, that tho saving of grain a lone, in the course of a few years, by the use of a drill, would marrant its adoption on orery farm. Such machines not only delifer the required portion of seed with regolarity, but deposit it at 3 proper depth beneath the surface. And as the plants appear in regular rows, weeds or thistles may be destroyed with facility, and the crop is thereby allowed to monopolize the entire nourishment of the soil The air is allowed freo circulation between the rows, and a atronger and healthier plant, and. consequently: a heavier crop is produced. Our illustratious very fairls-represent I the growth of drilled and broadcast wheat. The ears of the machine-sown grain, it wili be remarked, are larger, and the plants more uniform in size and beight than those sowns by hand. The superior vigour and strength of that sown by the machine will be at once apparent to our readers, and is superiority is by no meins exnggerated by the artist. The cost of a drill is, no doubt, pretiy considerable. This circumstanco will unquestionably prevent its rapid geveral adoption; but the advantages to be derived frem tho use of the implement, some of which we bave briefly noticed in this article, would, in cases where tho requisite amount could be prudently appropriated for the purpose, moro than compensate for the investment.

## Exhaustion of the Soil.

inf: extent to which the alimentary priperties or mutritive juices of the soil are extracted or diminished by vegetables is, as a general thing, in the precise ratio of the size and weight of the crops taken off Experience has long since demonstrated that, with respect to the cereals, the exhaustion of fertility is in direct proportion to the amount if actual nutiment which the plants, including the straw and grain, contain.
Wheat is, perhaps, more exhausting in it* effects upon the soil than rye, and rye more exhansting than barley, and barley more than oats. This opinion is predicated upon the results of cheaical analyses, although, we are arrare, in direct contrariety to the opinion entertained by many practical men who consider oats a moro porrerfully cabausting crop than either of the other-wheat or barles.
According to the most elaborate and mus: highly gatisfactory experlments of Ensiof, the different quantities of nutrimental or actual alimentary matter -for instavec, gluten, starch, and mucilaginous sugar-in the difierent hinds of fild crops, are as follows:


The amount of nutritice juices in these substancer thereiore, is as follows:-

|  | Wetght. | Julces |
| :---: | :---: | :---: |
| Wheat, | 02 'lbs | -1 \% 810. |
| Rye. | \$6 ${ }^{\circ}$ | 692 |
| bailey, | $8{ }^{\text {2 }}$ | 430 |
| O3ts, | 62 " | 3016 |
| Pata | 100 " | 7510 75.19 |
| Horso Beans, | 103 " | 75.10 |

Issuming these data as correct, and allowing for the ditference in the sature of the succulent con-stituents-which is very obvious to the chemistas well also as in the siens and leaves of the respective plants, the entire serics of experiments and examinations relative to the question under consideration, demonstrate conclusifely that they have the following relative proportion, each to each. so fur as regards their exhaustive effects upon the food or producing power of the soil:

Hence ve deduce the collary that-
6 busbels of repe aro equal to 4.01 or whest.
6 burbets nr ryo are cqual to 8 sis or barticy.
6 busbels of ryo are cqual to 22 of outs
We do not rouch for the accuracy of these assumpions; all we can say is, that thes are remarkably fortified and borne out by the most accurate chemical experiments which ha\%e as yet been made. echemical experiments which hare as yet been made. If erro
If the conclusions arriced at are relied unon, and if they are correct, they cannot fail to prove of essential serrice to the farmer in the distribution of manure upon his sereral crops. It will enable him to proportion it to his rarious crops, more according to their sereral needs than he has heretofore.-Mfaine Eantier.

## About Red-Root.

I was telling you last month that the redroot was so abundant in my summer-fallored wheat that $I$ intended to plough the land this fall and plant it to corn aext spring. John Johnston has kindly written me on the subject. IIe says:
"Since looking over the Fiurmer, I opencd the letter to say you can not kill red-rool with a corn crop. It will only regetate in August and September, and, if warm, in the dirst two weeks in October, and in no other months of the year. If the land is pulrerized in August, and ploughed in October or in April, you will destroy a vast quantity; but if a clayey soil this has to be repeated for sercral years belore it is all destroyed."
He bays red-root bas tronbled him more on his farm than any other weed. He has paid $\$ 500$ for pulling and hocing it out of his wheat. He conquer-
abounds, the plan is to sumener crop for some years, and this will hill it or so reduce it that it will not be much troublo to pull up what there is in the wheat.
It seems to lo a fuct that red-root troubles no crop except winter wheat; and my plan for killing it was based on this fact. Treat your land in tho fall precisely as you would were you going to som winter wheat, and then kill the red-root in the spring loy ploughing, cultirating, \&e. If we had a machine to 100 our winter wheat in the spring, this would kill the red-root ; but till we liare such a machine, we must Iry to kill it, as Mr. Jolinston says, ly "summer cropping." But summer cropping in itself will not kill lt. We must, by harroring or ploughing the land in August or September, nause the sced to germinate. This is the main point. After this is done the red-root can bo killed by any course of summer cropping that is most conrenient
1 suppose a good plan would bo to harrow the wheat stublic, (that is, of course, where tis whea is not secded) as soon as it can bo dono conveniently after the wheat is off. This would start the red-roo seed about tho midale of September. Then give the fich a good ploughing in tho fall and sow it to bar leg or Oats in tho spring. Instend of this course, purpose, in my own case, to plough wheat stubble in the course of a week or tro-ploughing it not vers deep and harroming it afterwards. This would cover up the stubble, grass, \&c., and start the seeds of the red-root. Then, sometime betore "snor dies," give it a goou, thorough, deep ploughing, and leave the land rough for the frosts of winter to mel low it. In the spring. plough again, harrow, cultivate, \&c., and plant corn. Then if the cultirator and horse-hoe are used freely, there will be little need for hand-hocing. Such treatment will not only hill red-root, but will destroy other weeds and leave the land in splendid order for sowing barley the next spring and seeding down.-Genesee Furmer's Wolk's and Talks.

Growno Trmber-" I mant to tell my story, which I kaow to be true and perfectly correct, as all the parties are to me rell known and of unimpeachable reracity. The scenc is in Berkshire county, Mass A boy reaped wheatin a field-that boy grew to be a man, and lived to the ripe old age of 82 gears Before he died, he sat in his chair and saw a neigh bour of his from day to day draring sarr logs to the mill. This man drene, had sawed, and sold 152,090 fect of lumber, and all frum 37 acres of ground upon which the old man when a boy had reaped wheat The timber was mostly pine, some oak. I beliere piue will grow as fast here as that."-Mame-Ene, in Country Gentleman.
Dimif. axd Suctes; Wirear, atc.John Johnston, under date of near Genera, Aug. 23; writes the Conntry Ocntleman as follors: "I have got one barrel of the so-called Dieh select wheat, and I shall be much disappointed if it is anything else than the Soules wheat, which I have grown ever since $1 S 14$. I sent many hundred bushels of it to Indiana and other Western States, a number of years ago, and often thought it would be well to get some of it back, thinking it might do better than that grown in this State for the last 20 gears. The only difficulty in raising Soules wheat here now is, that almost every year it turns all yellow in April, and if warm growing :, eather don't immediatels set in, it never recovers, and makes a poor crop. Sowing after the 20 th September is generally a preventive, Jut that of late years is thought to be too late."

Wiat were Claman Tinithey Mabefor? -For the double object of cultivating the ground for man's use, and compelling man to cultirate the ground for his orn bencfit-to banishideness, the scourge and curse of humanity, high or low, rich and noor. The deeply penetrating shouldered roots of the Canada Thistle search all the ground for life and growth, and bring to the surface in successive seasons, vegetable matter, Which, decaying, enriches the land, and thus prepares the way for the husbandman. The tiller of the soil must then banish the preceding elaborator, and sbow, by his industry, that he is worthy to aucceed and, also, that ho is villing to occupy the land from which be secks to dispossess an occupant, appointed by the Creator to lold possession until carth's rightful tenant crinces sunicient faith and natience to
subdue it.--Cor. Commeru Gentleman.

A Wonderful Tree.-In the birch rood of Culloden there is a remarkable tree, well worthy of note. Somewhere about thirty jears ago a little giant of the forest was blown dorn in a storm, and fell across a deep gully or ravine, which it completely upanned, and tho top branches took root on the other side. From the parent stem no less than fifteen trees grew up perpendicularly, all in a row; and there they still lourish in all their splendour, while the parent stem evinces no token of decay. Sercral of tho trees aro not less than thirly feet high. The tree is a larch flr.-Elgin Courant.

Tun: Sexung.-The following quaint bit of experience and wisdom is from Sir A. Fitzherbert's "Boko of Uusbandry ." "There is a seed called Discretion; if a husbandman have of that seede, and minglo it amongst his other corne, thoy will growe doabtless much the better, for that seede will tell him how many casts of corn a land ought to have. And if a young husband, or, it may so fortunc, $a$ man that by possibility might haro grey headed experience, hath not bufficient of that seede, set he that lackoth, it is larful for him to borrow of his neighbours that have, and his neighbours bo unkind if they will not lend this young lusband part of their secde, for this seede of discretion hathe a wonderous virtue, for the more it is cyther taken of or lent the more it is. Nom, discretion is that part of good conduct which takes wary accouni rather of tho difficulties, risks, and dangers of the way than of the object or rewards of the journey ; and it is, wo think, a fortunate circumstance that in one of the earliest specimens of 'book farming' in our language, it should havo been desired that tho 'soung husband' do mingle it with his 'seed corne."
Camidan Wreat Gromers.-You may think it strange, but I question if the best farmers in America are not to be fcand in Upper Canada. They beat us in raising wheat; their barleg is certainly superior to ours in quality, and I think the same is true of oats. In the cultivation of root crops wo are nowhere. Don't get angry. We beat them in raising corn-and in all crops which partake rather of a commercial than a strictly agricultural cbaracter. We are villing to raise small crops if we can get large profts, while a Canadian farmer, partaking largely of the Scotch and English conservative character, continues on in the even tenor of his way. He is not so constantly looking for some casier method of earning a living. He is a farmer, and his father was a farmer before him, and he intends to live and die a farmer. If the midge destrogs his wheat he does not, as we . did in this section, propose to turd the whole country into one grand apple and pear orchard. He looks out for some variety that will ripen sufficiently carly to escape the ravages of the insect.
I have ofteu remarked that where a new kind of wheat has been alluded to in the Genesec Farmer, it attracts more notice, ten times over, in Canada than in this section. A few years ago I induced some gentlemen to contribute a fer hundred dollars to ge up a wheat show. We offered large premiums and managed, by personal persuasion, to ind ce a fen farmers to show their wheat. The affie was essen tially a failure. Ilad it been a big pumpkin show, it would have been a grand success. The entrics of wheat at the Provincial Show are three times more numerous than at our State Fair, eren when held in the centre of the wheat-growing districts, and the number of people which crowd around the samples slows the interest which is felt in the matter. Ibe Deibl wheat, advertised in the Farmer last month attracted at once the notice of Canada farmers, and one of their agricultural socicties sent a delegation to Indiana to inquire into its merits. They Fere so well pleased with it that they purchased eight hundred bushels for seed. Such enterprise is commendable. No wonder they beat us raising wheat.

This Deiul wheat closely resembles tho Soules, and I should not be surprised if it turns out to be this varicts. Its chief merit is its carliness, snd it is probable that this quality is due to the fact that it has been grown for sereral gears in 2 more southern latitude. There can be no doubt that, 80 far as earliness is concerned, we should get our seed Fheat from a more southern rather than a northern latitude, and I have no doubt that should this Deihl Wheat prove to be the Soules it will ripen earlier for two or trico years than tho Soules grown from sed
raised herc.-Genesce Earmerss Walks and Talks.

## The Canadian Orops of 1865.

Reponty of tue Station Masters alono tae Line of tue Grind Ticne Railitay
dCEFALO AND GODERICH DEISION.
Godenict.-Fall wheat has suffered from the midge: gield, 10 to 18 bushels per ncre. Spring wheat, oats, barley and peas, considerably over an arerage. Root crops promise trell.
Cletto:-Fall and spriug wheat quite an arerage. Barley, peas and oats, very good. Root crops are good, and fax promises rell.
Carronmroos.-Spring wheat will arerage 25 bushels per acre-but lithe fall wheat. Splendid crops of oats, peas and barleg. Turnips rill be moderate, having ween injured by the tly. May crop could scarcely be surpassed.
Mitcaeli.-The crops, on the thole, are above an arerage. Fall and spring whea* both slightly injured by rust. Pcas, oats and barley, will be an excellent crop Root crops look well and promise a very large yielu.
Taristoce-Fall wheat has been injured by rust, and its yield will fall below an average. Spring wheat only moderate. Oats a splendid crop. Deas and Barles, quite an average. Root crops are good, with the exception of potatocs, which, in some places, are afected by rot.
Plattsulles.-Fall wheat rather below an arerage crop, with a probable field of 18 bushels per acre. Spring wheat is a very poor crop. Barley, oats and peas, aro verg good indeed. hoot crops promise betier than for some years past. Flax is vers little sown, but looks well.
Dnuxd.-Fall wheat will be an arerage crop and will probably sield 18 bushels per acre. A large breadth of oats, peas and barley was sown, which will give a largo yield. A largequantity of fax eown, will give a largo yield. A largequantity of fax sown,
which is an excellent crop. Hay: a beary crop. Rool crons will be light.
I'ams, C. W.-Fall rheat has suffered from rustaul the midge, and the yicld will be under an arerage. Spring wheat will yield poorls. Barley is largely cultirated and will yield well. Root crops, generally speaking, are poor.
Brantrom.-The crops in this district are generally good. Fall and spring wheat will yield 20 bushels per acre. Oats and barleg aro good, and will yield well. lioot crops are generally good.

Caledona. - Fall wheat will arerage 25 busbelsper acre. Spring do., about 16. Peas and barley will average 30 and 35 bushels, per acre, respectirely. Root crops, below an arerage yield.

Cavpield.-Fall wheat, spring do., barley and oats. are only one third of an average crop. An inferiorsystem of farming las been the priacipal cause. The only root crop grown here is the potato, which promises well. These remarks apply only to this township. In the adjoining districts, they have not thad better crops for twenty ycars.

Dentine.-Fall wheat, in some places, will reach 40 bushels per acre, and, generally, Till arerage 25 Spring ribeat is a very inferiur cien. Barley, oats, peas and buckwheat, alt excillent crops. Rooterops promise fairly.
Fort Ime.-"Mida oroof" fall whest is very good, and wiit jicia 25 bushels per acre. Spring, very little sown, and a very inor crop. Uther crops, in consequence of the severe drougnt, proved almost a total failure.
westers pivistos.
Detnort,-It is cstimated that the wheat yield will be an arerage. Corn is a heary crop. Oats, barleg, and roots will exceed any former jear.
Urica.-Fall wheat abore an arerage. Coarse grain and root crops could not be better.
Mr. Clemexs.-Fall and spring wheat will probably yield 25 and 20 bushels respectively. Good crops of roots and course grains.
Surru's Crees.-All kinds of crops are good.
Port Hicron.--Little grain is grown here, but what there is has turned out well. Other crops aro arcellent.

Sarvis - Grain crops are all good and will gield rell, probably s:r times that of last jear. Root crops are excelleat.
Chilachus.-Fery fair crops of fall and spring Wheat. Oats, barley and rye are splendid irops. l'otatoes, good ; turnips, delucient.
l'ars Ilicin - Wheat very good, as are also oats and peas. Root crops are excellent.
Aitsa Crata.-The staplo produce, spring wheat is a full arerago crop. Turaips and potatoes are good.
lecas.-Crops are above the arerage of tho last threo years. Twenty thousand bushels of trheat expected to be shipped nt this point.
Lowoos. -Fall wheat, spring do., barles, oats, and root crops are above an arerage.
St. Manr's.-Fall wheat, fuir crop; spring do., a fine crop. Coarse grains will yield magnificent! Root crops are an arerage. Flax, a ve:y satisfactory crop.
Sthatford.-Fall wheat, 20 bushels per acre: spring do . 23 ; peas, pretty fair, roots, abundant.
Sunzespeare.-Fall wheat, scarcely an average; spring do., abore an arerage. Peas, oats, and barley, are very good. Rool crops are very light.
Baven.-Fall wheat below an arerage ; spring do., barles, oats and peas, are all finc, both as to quantity and quality. About 80 J acres of flax in tbis vicinity, which has turned out a fine crop.
Petersbetre-Fall and spring wheat will yichd very moderately. Oals, barley, rye, peas and root cropa, about an average.
Doos.-Fall wheat below an arerage. Corn is good. Oats, barley and peas, will be above an average. loot crops, rery good. Flax, vers fair.
Berlin--Fall wheat, oriug to the midge, will only be two-thirds of an average crop. Other grains promise well. Flax is much sown and will yield splendidly.
Breslac.--Wheat, a fair arerage crop; root crops, good ; very lithe flax grown this year.

Gcelen.-Fall wheat will be urder an arerage ; spring do., is expected to yield fairl:- l'eas and oats will turn out well. Root crops generally lare agood appearance.
Rocewoon.-Fall wheat will be only half a crop; spring do., an arerage crop. Coarse grains will yield about 10 bishels per acre. Noot crop promises well.

Actos West.-Fall wheat, halfa ctop; spring do., average. Barley, oats, and peas, ful.y an average; root crops, do.
Limenocse--Fall wheat, crop very poor; spring wheat, do. Peas and oats are good, as is also the root crop.

Geonoetoms:-Crops are all buo 1, except fall wheat, which has suffered from the midge. Flax has turned out well.
Norval,-Fall wheat, old varieties ::lmost a total failure; "midge proof" is an averag" crop. Oats, peas, and barley ure an average crop. Flax largely grorn, and has gielded well.
Brampton, Malton, and Weston:-Same as Norval.
Canlros--Neither fall nor spring whent is an arerage crop. Coarge grains are very good ; rool crops promise well.
Toronto.-Not much fall wheat sown. The average yield may bo placed at 25 to 30 bushels per acre. peas and oais are splendid crops. A few farmers hare tried flax with success.

## central dethios:

Scanbono'- The crops ate all abore an average. Roots look rell, but there are indications of rot in the potatocs.
Port Usion.-Fall and spring Wheat an average. Barley, oats, rye, and rool crops will gield a good return.
Fresicamas's Bay:-All kinds of crops fill be over an average.
Duffrn's Creer.-All crops in this section are excellent.

Wmitd r.-A large breadth of fall wheat was sowa, and the Field will probably bo 20 bushels per acre. Barley is the best crop ever knorn. Root crops are gencrally good.
Osuarfa.- Theat crops, good and abundant. Bar ley, peas and oats, good foot crops, rery moderate.
Botrantille.-Tio crops of all kinds rore never better. Farmers are quite satisfed.
Newcastle.-Fall and spring wheat below an rerage. Corn and roots about an arerage.
Nentontille.-Fall wheat about 25 bushels per acre. Spring do., 18. Barley, peas and oats, will Ficld abundantly. Root crops, about an average.
Ponr Yore. - Wheat, a large gield and good sample. The harrest, altogether, is more abundant than for some ycars past.
Conorna.-Good crops of fall and spring wheat. Coarse grains have turned out mell. Root crops, good.
Grifros.-Fall and spring wheat, a good average Barley and oats. very fair. Root crops, good. Flax, a medium crop.
bmouros:-Large crops of fall and spring wheat Coarse grains also good. Root crops, excellent.
Bellevilize-Fall wheat, 25 bushels per acre Spring do., 15. Barley, 25. Rge, 20. Oats, 30. Peas 15. l'otatoes and turnips, goou.

Sulamovilus.-Fall and spring wheat will average about 25 to 30 and 2025 bushels per acre, respectively. Coarse grains will average 30 bushels per acre.
Tremminaca-Fall wheat, good. Spring do., nol guite so good. Coarse grains are very good. Rool crops, do.
Naparee.-Fall and spring wheat crops are mod. erate. lige and barley, very good. Root crops: complete iailure.

Kingston:-Fall wheat, a great crop. Spring do.: an arerage crop. Barles, oatsand peas are extremels good. Lloot crops, rery fitis.
Landsbowne.-Wheat crops are good. Barley, oats, peas and rye, are excellent crop3. Every pros: pect of a good root crop.
Manonyrows:-The cereal crops are generally good. lloot crops have sutfered from drouth.
Lris-Fall wheat, none, spring do., less than beretofore. Hay, double that or last year. Rye, oate and butley, good. lioot crops are poor. The decreame in the wheat crop is owing to the weeril.
Unockviles.-Crops generally very good, Fall Wheat, not much grown; spring do., short and thio on the ground.
Ynescotr.-Fall wheat, an excelledt crop, both as regards quantity and quaity. Spring, a good average crop. Barley, oats, hay nad root crops, fatr average crops.
Euwambscra. Crops all very good, and more than an average yield expected.
Matind.-Fall wheat, double of last year of ane quality. Spring wheat, little sown, but bas yielded well. Baricy, ouls, peis, corn, rye and flax, good crops. Root crops, light.
Whlamancbo.-Crops are all in excellent condition. $A$ large quantity of fall and spring wheat sown, which will gicld 35 to 40 bushels per acre.
Aclisumbe.-Wheat, corn, peas and oats, are a good crop. Barley and roots, rather poor.
Diceswson's Landis.- Fall wheat, not much grown, what there is is an average crop. Uther cereal crops promise extremely well. Root crops are very little cultifated.

Lascaster.-Crops good, and farmers are well pleased.
Vacdredik-No fall cr spring wheat sown. Other cereal and root crops are very good.
St Axx's-Fall wbeat, none grown. Spring do., good, and an average crop. Barley and peas, rery jair crups. Oats are partially damaged by rust. Root crops, below an average.
Montreal - Not much wheat sown, but this jear'a crop is above an average. Coarao grains are a mapnificent crop; root crope, do. The applo crop is likely to be a jueary one.

## ©ht extcder am cinairr.

## Implements for Cattlo Feedirg.

Most of our realers are abare last lle wealatiat
 long been, and stall $1 s, a$ tupic $u$ bumb cohtiact of upinion among practical stuch farmes.. The thuad. fal farmer is perplesed amid the cuntraraties ahah exist in the directions of the most emanent aathurames un the subject. Not onls so, he te surpased ut tha

pancity of the material bearing on this comessedly important brench of farm practice to be found in the puhlications of great modern agricul ural anthors. The cause of much of this uncertainty lias been the almost total neglect of the great objects of winter feeding. These, we tale to be-the maturity of the catte in the shortest time, with the cast outhy for foorl nad lahour,and with the largest quantities of flesh and manure. The important uses of the turnip are now generally admitted and understood. At t is dang it is as much identified rith the diet of the farm-yard as with tho improred methods of tillage, and a jndi-

elous rotation of crops. Thas being so, it is nut unnataral that we should expect a somerwhat uniform erpression of opinion as to the best method of feed$\log i t$.
It is not our present object to attempt any solution of the didiculty. We merely throw oint the hant tor the consideration of our reflectung readers, with a half matured intention of returning to the subject on a fature occasion. Our immedate purpose is to indheate some usetul auxiharies, in the shape of easily procured and not over expensive implements, to mesist our farmers in the preparation of theres cattle rood. It is almost unnecessary to premise that clean Hess. a due degrec of warmth, abundance of litter,
prow dirnuel precan: -manst dise pos, are requirements as esaential ns ant in . de shine. of wholesome nutritive frod. This con-idination will be obrious, and therefore aeed int be farther insisted on. Besides
 burat sown suouad be fed at regutar thenes and in a

 cuanan ta. .ag' whathe same animal, fhe ha be alup'ed 1hy the mouns the cattle nujutuing will be sparel

 pomed turn. his hot chey io ober-csion pher.ance of a methodic culrse of procedarc. Oar

 fation, tham by any houghemen waphatan of i.s premefits in the pre ent artite.

It is generally almated that in feeding tursips it is advisahle th alturnate them with crushed lingeed or grain, mixed with a certain proportion of cut straw or chaf. For cattle intended to be fattened off, turnips ought to be cut into conrenient slices, and into much sualler pieces fur ealees. Sereral machines
from choosing and wasting lis food. The machine before us appears strong nod substantinl, well buill throughout, and, is said by the proprietor to be "capabie of cutting onc con per hour into lengths of s, fo, and $\dot{g}$ inch as many be desired, hy changing th. gean wheels.' Thu large bulance wheel malies it Nurl casily, and tau handius accompany ench m. chane su that "aceessary, it can be ased ana hat: puner.

A Cum Irudenu Fula Caltejat ons Tine - 1 circumstance oicurred in this neighbourhood snme Ittlo time ago, which, I beliere, is almost unparal lelled in the history of the bovine tribe, and which you may think worthy of record in your columns. Mr. Holloway, of Thain's Farm, in the parish of Montcombo (Dorset), has in bis possession a roan, or red-nad-whito spotted corr, soren years old, which, on the 23d day of May last, produced at one birth four perfect calres. The calves were not in any way joined to each otber leg ligament or inter growth of limb ; neither wns there, in either of them, the slightest external appearance of dufornity or monstrosity of any kind, but. on the contrary, each jittle

have been devsed for effecting this double onject. Probably that inrented by Mr. Gardner, of Banbury, England, and made in this country by Mr. J. Watson, of $\lambda y r$, is about the best. Our first illustration shows thes useful implement. The cylinder, on Whose axle the fig-wheel is placed, contains arranged upon it, in the "step by step" method, a hnife or cutter, or rather a serics of lsnises, which cat the turnip into finger-shaped pieces suitable for calres. By simply reversing the motion of the cylinder, another limite edge comes into operation by whach the turnips are slaced larger for cattle. Uur next cut represents another " louble action root-cutter," known on this continent a, "Cunt's Patent." This implement is manufactared "under an agreement with the patente"' by Mr. J. Watson, of Ayr. It is only half the price of Gardner's machine, and was ararded the first prize at the l'rovincial Lshibition at Hamilion last gear, while tho first inentioned implement was placed in the second position. With all due deference to the judges who olliciated on the occasion, howerer, we beg to record our decided opinion thas, for the farmer who looks for strength, thorougluness and durability in a machine, Gardner's is the implement he should purchase.
In our last illústration is shoma an "Improred lower Straw-cutter ' also manufactured by Mr. Watson. Diraw and charecuting machines are aseful and economical as food preparers because they tachtate the maxture of the material 80 cut, with the crushed linseed or grain, and thus prefent tho animal
animal was perfectly shaped, ind the proper number of limbs, and presented in erery wiay a natural and symmetrical appearance. There was a remarkable coincidence rith respect to the colour and sex of the calves; for while one mas of deep red colour and a male, the other three were pure milk white and females. Although born alive the whole batch died soon after birth. A photograph bas been taken of the cow and her remarkable family, and is now exthibited in a shop window in this town, and, if likely to be of ans interest, I could procure and forward to your office a copy of the picture. I ought, perhaps, to add that this corr on tro previous occasions produced twins, so that sho has been, during the last three seasons the prolife mother of eight calres.-J. S. in London Field.

Chored Cattae.-D. Ifyzer states in tho Rural Neco-Yorher that ho has found that pouring half a pint of melted lard down the animal's throat, relieres it immediatels, and withont failure. Good managers by tho use of slicing machincs, dc., Till scarcely eprer need stich remedies; but sometimes, through the carelessness of bured men, such accidents will occur. We gise the abore remedy for what it is worth, com mending it for trial.
Usen.-ln a good vorling ox we want to see the follorring qualities: Let him have largo nostrils, a long face, a bright hazel ege, which will indicate doclily and intelligence, a boof rather long and not turned outward very much, a straight back, a broad breast. wide gambrel, small (atl, and horns of medium gize. When you gind such an ox as that, bo will be a good Worker.-Exchange.


Tus splendid roan gear-old Bull,-". Tae Bnminast Laup," shown in the nccompanying illustration, is the property of James Aaderson, Fsq, of Grace Dicu, Ccunty of Waterford, Ireland. This animal ras exhibited at the Rogal Dublin Society's Show, held in the Spring of this year, and carricd off from ninety-eight competitors the First-Prize of bis section, and the Ganby Challenge Cup. "The Brilliant Lamp" is by " Bright Lamp," (19.3j6), by "Lamp of Lóthian", Ham "Octavia the Secoad" by "Soubadar," (18.901, gd. "Octavia" by "Drishane," (14.414.)

## entomalany.

## Insects on the Gooseberry and Currant.

Frow the following extmet, which wo take from the columns of tho Scollish Furmer, it seems that the application of helibore to destroy these insects, as recommended recently by various writers, is not altogether an advisable proceeding:
"Growers of gooseberries and currants would do well, as soon as tho buds break into leaf, to go over their bushes early in the morniug, when the dew is on them, with a flour-dredger charged with flour of sulphur; also sepeat the process about the end of Junc. This with me has always been a certain preventive. A boy will go over 200 bushes before breakfust, and the expense trould be about ninepence for tiso pounds of flour of sulphur.-Josem Buraess, in Midland Florists' Guide for April." This is another, and we should think rather a good addition to the numerous recipes for preventing the savages of the gooseleery caterpillar, sulplur being one of the most effective appliances for the destruction of insect life, and at the same time one of the least injurious to vegetable health. And we would special. ly recommend trial of it, in course of this and next month, to gooseberry bushes in destricts infested with that intolerable nuisance, the gooseberry bug. A respected old lady, who was famous for the excellence of her bome-mide ginger-beer, once assured us that she had found, from long experience, nothing was such an effectual caterpillar destrojer as that bevorage, which she sprinkled over the bushes from the rose of a small watering pan. To such a harmless application, mado at any time, there can be no objection; but we decidedly protest agai 2 st all poison c) 18 applications, such as lecliboro-now so extossively used-especially when or after the goung berries have become fit for tarts or otbre purposes, a 3 emill
quantitics might adhere to their skins, especially to those of the rougb or hairy sorts. and result in rery unpleasant if not dangerous consequences. not only to gooseberry eaters, but to the partakers of jams. jellies, wines, tarts. sce, made from them either when green or ripe. Sulphur does not rank among these poisonous applications, nor does it affect the flavour of the fruit. but itshould only beapplied in the younger stages. as what lady or gentleman would go agoose-berry-picking at the risk of having their clothes sulphur scented?-Country Genlleman.

Tue Diet of Wonks.-Many persons are not aware of the fact. that the earthworm really does live upou carth. It is sometimes stated in popular works on zoology that the worm picks out portions of leaves, grass, sc., and decours them; but this is quite a mis-take-the earthworm lires upon earth. It must not bo supposed that it assimilatea the mineral constituents of the soil ; its gastric and hiliary secretions dissolve the decomposing animal and regetable matters which are invariably contained in rich soil, and it is theso which are assimilated. The earthrorm could not live upon earth that had been burnt and deprived of its organic constituents. In a similar way the arenicola, or lug-worm, which lives in the sands exposed by the action of the tide. gorges iterelf with that substance, and ertracts the matiers $r$ hich it contains fit for nutriment. More frequently, however, the " lug" lives in tho rich elays of creelss and saltings, which abound in animal and vegetable matlers. It is worthy of observation, that a very large quantity of earth or sand, as tho case may be has to be gorged before any appreciable amount of nutriment is extracted; at tho sane time swallowing of carth is an assisiance to the worm as it burrows in the ground. inashuch as large quanti.ies of material Tre thereby removedf:om its path and ejecied behind. The appearance of those carious li 1 s masses of digested earih o: the surface is thus caused. If means of waich the earthworm effecta such wondr-fill changes on the surface of the gromnd, turaing up the carth, burying the stunes, and producing a fresh and fertilo soil where formerly was a barren watn.ITanlerele's snienre (nossip.

Birds and Insects.-A correspondent who bas been considering the effect that birds have upon keeping down insects, writes to the Field expressing his belier that their induence is much less than is geacrally supposed. IIe says:-"Of my own personal obserration I know only three birds that seem to abstain entirely from insect food-the goldfinch, linnct, and red-poll. I hare never noticed the sparrow take anything but winged insects, abstaining altogether from caterpillars and larve. Now, there are many insecta which birds do not devour at ali-talse, for instance, the wasp-and get they appear and disappear in certain seasolus in a manner which I have never beard satisfactorily explained. We generally look for them in dry, hot seasons, and last year they came in great numbers; aud chis spring, frum the numbers of queen Wasps, the gardeners were in despair, anticipating the desirtction of their fruit; but although the weather las been seemingly most propitious, they have entirely disappeared. I bave not seen a wasp for several weeks, and this before the heavy thunderstorms of last weck, which we might suppose would have destroyed them. Again, the gooseberry caterpillars, which two or three years go stripped all our gooseberry bushes of their leaves, have also vanished. Although they appeared to be so loathsome to the taste of birds that I could never persuade any of my birds to tonch them-cren the ducks, the foulest feeders, rejected them-jet, as I said before, they have disappeared. I remember, many years ago, when travelling in Australia, to have met with. a placue of grassioppers, which camo in such incrediole numbers as almost to darked the air. They devoured erery green thing in their way. During their laght, which lasted for two hours in the morning, sind the same time in the evening, it was diffcult to get our horses to face the storm, and those feeding in tho bush would turn their backs to them just as we seo horses turn in a violent thunderstorm. They wero accompanied by great flights of birds, which, of course. devoured great numbers; all the domestic poultry fattened on them; even the pigs and dogs ato them, but seemed to have no effect urna their numbers; and as the grasshoppers were eron cach day in milliona to deposit their eggs in the ground, the inbabitants became scriously alarmad. However, the grasshopers vanished as mysteiously as the'y camo, and the following fear they were not more than usunily numerous."

## Juf Dairy

## Philadelphia Butter.

Tae superior quality of the abore, to the general average found in otter cities and places of resort, is a very common observation of travellers. Its excelleace has indeed become proverbial, and there may be eeveral reasoas giren.

1st. The character of the pastures in the dairy ulistricts aroupd Philadelphia comprises a mixfure of grasses. We find among deee, varying of course. somerbat with the locality, Kentucky blne grass, (Poa pratensia), greatly ralued by our best dairymen, red clover, white clover, herds grass, timothy, sweet scented vernal and rye grass. The mixed character of this pasturage is probably of some importance Where the pasture is chiefly red clover, it is a common remark here that the butter is apt to bo strong.
20d. Our dairy farmers are rery particular to take out of their herd every cow whosi cream. partaking of an oily character, docs not separate freely from the milk and harden readily. We once orned a cow of this character, and had to churn every con's milk reparately before tre could and which she was. The cream was what is called ropy, and would never harden into anything but oily butter. It spoiled the butter of 20 corss, when mired with it.
$\$ \mathrm{rd}$. When milk is allowed to stand too long, fa, for instance, in a spring house, below the proper tempersture, it becomes mouldy, which of course hurts the quality of butter. This is obviated by kecping on hand a pan of sour or thickened milk, a table-spoonful or two of which is mised rith every pan of fresh milk, when it is first put in the spring house. This hastens the decomposition or souring of the milk, which it is believed here is indispensable to secure the whole quantity of cream from each pan. The sule is generally for pans to stand for three milkings before the cream is skimmed of and put into the cream pot.
th. The care of the cream is considered important. It is put in a tin ressel, about 15 inches deep, hy 10 or 12 in diameter. A bole is made below the lerel brick or plank floor of the spring house, in which the cream pot is plunged up to its rim in water. This keeps down the temperature, and prevents fermentation. Very particular care is used to stir it well found once or twice dails.
5th. Churning not less than once a week contributes to make prine butter. Most of our best dairymen churn twice in the week through the summer.
6th. Tbe cream being in proper order, the churning and working of the butter follows. If butter gathers soft in the churn, no subsequeat Forking or nannipulation will make good butter out of it. It is essential that the butter "come hard," and this is insured by throwing in a lump of ice, and working it around a $f \in w$ times in the churn with the butter, \&ic., when it arst begins to break.
It is then transferred to the butter table, and all the water and buttermilk worked out of it in a vers few minutes, no matter how large the quantity, by one of our patent butter workers. A sponge enclosed within a sofl muslin cloth is used at the same time. and when the process is through, it would be difficult to discover a singletrace of cither water or buttermilk.

The salt is applicd at this first working, and thoroughly incorporated, by the fiuted rollers of the Forker. The uae of any water at all in working is generally avoided by our best dairymen.
The late D. B. Hinman, President of the Cbester County Agricultural Societp, often replied to visitors from a distance, who said they could not make such good butter as be gave them, "that they were too smbitious. You try," says he, "to save both the butter and the buttermill. I am content with the pure butuer, and allow the other to drain off."

7 th. Entire cleanliness in and aronnd the spring hoase, is scrupulously observed. The milk pans buckets, strainers, \&c., are daily scalded and exposed to the sun, and all noxious or'ours, which milk and cream absorb so quickly and readily, carefully avoided. An old lady on a dairy farm once told us that she fully excused her son for giving ber a sudden and violent blow on the month. Thoughtlessly she had gone into his spring house, smoking her pipe. A
sudden hlow, and stamping ander his foot fished woy pipe, tobacco, and smoke. One minaw more woald hare done the buciness, and damaged the quality of his whole chnrning. He had teen obtain-
alrays in adrance, and fook the only mothod to eavo his reputation, as bo thought.
8th. After rorking, and priating into half ponnd and pound lumps, cach separato piece is rapped up a a clean white rag, often with the orner's name on it, packed in the tab smong ice, and brought into market as fresh and hard as it leaves the spring.
Butter mado in the abore way is now selling (6th mo. Ist,) at 50 cents per pound in Philadelphia market, and has brought for many reeks the past winter 75 to 85 cents per pound. Sich butter is one of the lıruries.-Phil. Rural Advertiser.

## Don't Run the Cows,

Now, boss, we hare a mord to say to jou. When we were of your age we almags had to drive the cors to pasture, and go nad bring them, too. Sometimes we got a little late, or were anxious to get of to play, or a cow found a bit of good, speet grass, better than she bad found all day in the pasture, and rould stop to take a bite and fall behind the rest. That was provoking, and we were apt to give her a pretty serere lesson. In fact, we were guilty of hurrying up on many occasions. It was all wrong, but we little knew how much injury we were inficting on ourselves, as rell as on the corrs.
Now it is perfectly well known that overdriving causes the milk to we heated and fererish, especially in hot weather, and this milk is not a beallhfil article of food, either as milk or rhen made into latter or cheese. Cows that are abused, bicked, or roughly treated, cannot gire good milk, and no process of manufacture can make it into so good an article of diet as milk that is not injured by such treatment.
Never let the dogs chase the corss. A rorriment of this kind not only lessens the quantity, but injures the quality of milk, and it should be carefully avoid ell. Dogs ane b, nerally a curse among a lerd of cattle, and particularly so among milch cows, unless they are trained to drive and tend them, as fers of our dogs are.-Mrass. Plouqhman.
zen Glirfanise is the best article for caring cracks in cow's teats. Apply it trice a day after milking.
L.wh. Oli for the Lactoxeter.-At the Trenton, N.r., Cheese Factory, this litlle instrument told a taie which excited suspicions against the fair dealing of two "patrons" of the association, and detectives were set to watch, when both parties were seen to add water by the pailful. The matter created quite a stir, but was busbed up so far as private claims are concerned by the payment of $\$ 50$ each, and an agrecment that on. cighth shonld be deducted from all the milk they had delivered this season. Verily the way of the transoressor is hard.-Country Ginlleman.

A Good Corr.-Mr. Joseph Brown, of Delaran, Wis., wtites to the Rural New Yorker thus of a rare speci mes of the bovine race :-"I have a cow that gare 1,496 $\frac{1}{2}$ lbs. milk during the month of June last, from which my wife made 66 lbs. of butter. Said cow was 13 gears old last spring-receired no feed luring the time, except what she got from a good pasture-has always been kept in good condition and milked regularly. Fach milking was weighed during said month; the most she gave at any one milking was 28 lbs., the least $19 \frac{1}{2}$ los. The Junc after said cow was 7 gears old she gave 1,334 lbs. milk from which was made 62 lbs. 7 oz. butter. She is said to be onefourth Durham."

## Traning Cattle to Jexp.-A Western farmer engs

 he makes it a rule that whenever cattic are made to pass a fence, whether tbrough bars or "slip-gap," to leave one rail for them to pass under. This gives them a dowaward tendercy, and lessens their inclination to jump or look upwards, as they are sure to do when a lazy attendant throws down a part of the rails, and makes them vault the rest. Cattle may belearned to go over any fence, by the carcful training learned to go over any fence, by the carcful training
they often get for this end, and performed as follows First starve them, or give them poor feed, which will make them light and restless. As soon as they go over the lowest part of the fence after better provender, make them jump back agaln, and put on one more rail, saying, "I guess that will kecp 'cm out." Nuxt day, (as of course they will be in mischief again, ) repeat the process, adding another rail; in a
short time they will take caro of themselves, and barrest the ciops withoat charge.-Tecker's Rural Affairs.

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## Puerperal or Milk Fever.

Turs disease consists in a partly febrite and partly Inflammatory state of the system, accompanging the formation of milk, and always occurring moro or less after calving. In some instances the fever becomes very great, and inflamaation of the peritoneum sets in. When this takes place it is called parturient peritonitis. The symptoms are tolerably well marked, and are rejpld in their course, frequently gaining their full intensity in six or cight hours. The animal has an unsteady, reeling gait,-the pulse is high, beating from eighty to ninety per minct, - the muzzle hot and dry, - the respiration also very much increased,the gait becoming still more unstealy, and in a short time the animal falls down. When lying she is very restless, and perhaps makes ineffectual attempts to risc. She moans continually, and stretching out her neck looks around at her tlanks. as it were point ing to the seat of the disease. In most all cases there is obstinate constipation of the bowels. In fact all the secretions are stopped, and the urine is retained within the bladder. If these symptoms gradually increase, death soon superrenes.
This discase occars in cows of all ages, and may follow any kind of parturition. Howerer, it generally arises from bad usage immediately preceeding or during parturition. It generally shows itself about the third os fourth day after calving. A post morten examination reveals the whole peritoncal surface o: both the intestines and the uterus, covered with a dirty granular lymph. If the discase has lasted for a fer days there is an effusion of fluid into the abdomen; while the substance of the nerves going to the abdomen are thickened and carkened in their character. The veins in the neighbourhood of the uterus, will be found to contain either broken down lymph or pus. The lungs and liver are found often conjested. In the treatnent of parturient peritonitis, as the bowels are constipated, a smart dose of purgative medicine, such as epsom salts, must be administered:-one or two pounds combined with two drachms of calomel, and cight to ten drops of croton oil. Give also every two hours, from thirty to forty drops of tincture of aconite, until fire or six doses are given. If the abdominal pains continue, a nound of castor oil may be giren, combined with two ounces of laudanum. Apply clolhs wrung ont of bot Water to both the loins and abdomen. The teats should ve drawn regularly and frequently; and the patient encouraged to take ns much liquid as possible.
In other cases the brain is congested, and is called parturient apoplexy. It is also very rapid in its course and moro fatal than peritonitis. It differs from the latter in being actire congestion of the brain accompanied by inflammation of the spinal cord. It is most likely to attack cows that are good milkers and in high condition, and generally occurs about three days after calving. The first symptom observed is a deficiency in the quantity of milk, and the yield gradually diminishing at cach milking, the urine is suppressed and the bownls costive, the eyes begin to get dull, the pulse quickened, and as in peritonitis, the cow has a staggering gait, lies down and is unable to rise; the breathing becomes ster To.ous, a state of coma sets in, and the cyes become of a dall opaque leaden colour. This disease re quires energelic treatment. In the carly stage, bloodletting is useful, which should bo followed by a very large dose of purgative medicine combined with a difusable stimulant repeated at intervals. Clysters should be auministered often, as if the bowels can be freely moved the cow may be considered safe After an animal becomes comatoso it is useless adninistering medicines. This disease may be prevented to a great extent. If a cow is in very higb condition she should be fed sparingly somo days before calving, and also allowed exerciso and plenty of water. As a senuel of parturient fever, paralysls sometimes occurs to such an extent that the cow is unable to rise, in other cases sho partly looses the powcr of her hind quarters. Paralysis may continue for weeks and even montbs and still perfect recovery may take place. When it beoomes somowhat chronic the powdered nux vomica given in doses of two tn hree drachms twice a day has been found of mosa ralue in crasaring and expediting recopery.

## alat Alpiary.

## Queens and Queen Cells by the Whole-

 sale.1 su tempted to relate an occurrence of to-day, thinking it may interest your bee-keeping readers. On the 4 th inst. we remored an Italian queen from a fill colony and shipped her to a castomer, giving the atock a young fertile queen on the ith inst. Being very much burried we neglected to maku a final examination, bal supposed the young queen was acecpted. This morning the colony threr a large arrarm. On opening the hive the peculiar "piping" of en imprisoned queen was plainly heard, and an investigation resulted in the capture of ten beautiful young Italians, all of whom hat their full colous and were able to dy; but afler cutting, the cap of their cells had been resealed by the bees, and fed through: an opening in the lid, as so correctly deacribed in lluber. The colony having started queen cells as soon as their queen was remored, had refused the soung queen giren them on the $\overline{7 t h}$, and an enumer ation of the cells showed that they lad finished fuenty fire, one of which contained an immature drone swimming in "royal jelly." (This altempting to convert drone eggs into queens is, by the way, a common occurrence.) Sereral had been opened and their inmates murdered; ollors hat batched, and tro we cut out and placed in a box, leaving one in the hive. Our next onslaught was on the swarm which had clustered on a small tree. Wie hived it. getting five more sonng queens which had accompenied it, and on returning to the quen cells which we bad cut out, found one hatched and tho other just hatching, thas sccuring setentcen young queens and a queen cell for the old hive! I think this a pretty good haul from "a buckwheat swarm." Although I know of no buckwheat nearer than a mile and a half from our apiary, Fic are having swarms from our Italians almost daily, azd they aro rolling in the honey famously.
The amateurs who havo examined the Italian bees closely, bave noticed in every hivo many morhers whose yellow bands reere of the most brilliant hac, while their abdomens reere of a jet black-rivalling Day and Martin's blacking. We hare bad numerous inquiries in repard to this, some thinking that these fellows were the pure bees, and that the presence of others was a mark of impurity in the queen producing them. This is what might be called a posteriori reasoning. The fact is that there are old bees whose wodies have been worn smooth by hard labour, and any one doubting has only to catch a worker, and With a Wet fioger rub its lack gently for a few moments to polish him up to the difican type.
We hare just receired some queens direct from the district in Italy, where, according to the last German Beo-Kecpers' Convention, these bees are found in their higlaest purity, and oxpect to be able by their posscssion to solvo some questions yet in dispute by apiarians.-Javes T. Lasostroti, in Country Genlleman.

## Among the Honey-Makers.

Tane August number of the Allantic Ifonthly. has an intercesting article on Bees, by Miss II. E. 1'rescott, from which we make the following extracts:

## A Nev Queen:

"The queen is dead: It is lamentable, but nothing is so casy as to make another. There is only to tear down some dozen cells, to set the youngest embryo afloat in the royal jelly, and a queen appears, who if not in the legitimate line, is capable of performing perfectly all the office of a sovercign. There is a moment of intense degpair, great riot and agitation ; work is suspended; the temperature of the hive mounts many degrees. All at once the old art is remembered-the administration of that delicious medicament, of so astonishingly affluent nature that it can make a queen out of a commoner, the enlargement of the narrower cradle to that ampler spaco which forbids the atrophy of a single fibre of the body. The preparatiens aro mede, and with tranyitility restorta the peoplo await the eveat. One
day there comes a single piping sound-it is tho cry of the rogal babe-the biro is flled with rejoicingthero is no longer any interregnnm of the purplethe queen is born! I'erhaps the queen-makers hare been too much in carnest, and at nearly the same moment tho iumates of two rosal cells issuc together. Then is the sime to try one's mettle - no slirinking. no bias, nothing but pure patriotism. Let a ring to formed, and she who prores berself victor is worthy of homage. In one of the two a coward? The impartial circle bring ber back to the encounter, bite her, tease her, tumble her, worry her, tell her plaints that life is possible to her on no terms but those of conquesh At length the matter decides itself; the brilliant and victorious A,nazon bends her long, slender body, and with her rogal poignard . erces the abject preteader through and througl. Then these satisfied subjecte surround her, load her with endearmente, ciennse her, brush her, lick her, offer her honcy on the ends of their proboscides, and if there are yet remaining other rosal apartments whose tenants gire notice of timely appearance, they conduct her on an Elizabcthean progress, in which, glled with instinctive dismay, she pauses at every cell, and stabs her young riral to death with her sting. As the story runs there are still other conlitions to he fulfilled by the aspiring princess-she must give her people the assurance of a populous mpire. Should she fail in this, they hare recourse o their old manocurres, becoming manifestly insubordinate and unruly. if, however, they at any time wax unbearable in their insolence, the soung mon arch has it in her power, by assuming a singular attitude, standing erect at a little distance lipr wings crossed upon her back and slightly flattering. while she utters a whrill, slender sound, to strike them dumb, so that they hang their heads for shame.
It is quite distressing, after reading this pretty story, to be told that ". the later apiarists deem it a tissue of fiction and fallacy. If, when a hive is deprived of its queen, there lhappen to be a rogal egg remaining in it, they say, it will shortly produce a queen, as, if it had been a common cre, it would haro produced a common bec. They insist that the organism of the creature to be produced is inheren in the egg, and du not beheve it in the power of a bee to aller a law of nature; they deny tho statements of Schirach, Muber, Dunbar, Rennie, and others to this effect, and scout the idea of the existence of sinh a thing as royal jelly at all, with the supposed ars:iocracy of its compounders." Another story is told which proves the sagacity of the bee. In the latter part of last century there appeared in Europe a strange, big, ugly insect, called the Sphinx Atropos. rhich invaded the bee-hives and destrojed the honey The attention of the apiarist Iuber was directed to the matter:

## A MROBLES SOLTED.

" lluber took counsel with himself for some means of protecting his bees from this daring robber Should he make gratings? Should be make doors? And how? That was his donbt. The best imagined closure possible had the incourenience of hindering the great morement of exit and entrance always going on at the sill of the hire. Their impatience rendered these barriers, in which they would entangle themselves and break their wings, intolerable to the bees.

One morning, the faitbrul servant who aided lim in all his experiments, informed him that the bees had already solved the problem for themselves. They had in various hives conceived and carricd ont divers systens of defence and fortification. Here they had constructed a maxen wall, with narrow windows, through which the lage enemy could not pass; and there, by a more ingenious invention, without stirsing anything, they had placed at their gates intersecting arcades or little partitions, one ochind another, but alternating, so that opposite the empty spaces between these of the firstiow stood the partitions of the second row. Thus were contrived numerous openings for the impatient crowd of bees, who could go out and come in as usual, and rithout any other obstacle than the slight one of going a little zigzag ; but limits, absolute obstrucnons, for the great, clumsy enemy, who could not enter with his unfolded wings, nor ere. insinuate himself without bruises between the narrow corridors.
"This was the coup detat of the lower order the rerolution of insects. exceuted by the bera, not unly against those that robbed them, but against those that denied their intelligence. The theorists Fho re fuse that to them, the Mulebranches a, dhe Baffous,

## Shatt 庼usbaudry.

## Wool Shrinkage-Miohigan Test,

We present to our readers herewith the resralt of the test concerning the shrinkage of wool, afforded by the Farmers' Mechanics' and Stock Breeders' Association, of Jonesville, in tho cleansing of ten Nerino tleeces sheared at the sheep-shearing of the association in May lash. In this test it may be safeiy said that the best fine-rools of the State were represented, as Hillsdale and the adjoining counties are ranked among the rery best sheep districts in the West, and the sheep-shearing in question b:ought ont what were supposed to be the very best specimens of the rery best llocks in the section. The entries were made in competition for preniums offered for the "best cleansed decees," and from the facts in the case it is evident that the exhibitors acted in good faith, and that no decees were entered which in the opinion of the owner did not stand a fair chance of obtaining a premium, the owners not being aware, up to the time of this test, of the enormous shrinkage of fine wool in the operntion of cleansing. Hence, the result of this test may be regarded as a fair exhibit of the arerage shrinkage of first-class Michigan fine wool. The association is entitled to the thanks of all interested in wool-growing for thus settling an interesting and highly important question by this practical test.
In presenting the table, as furnighed us by the Secretary, IIon. W. J. Buxter, we will only premise that the fleeces were cleansed under the superintendence of Mr. L. D. Green, of the Jonesvl!! Woollen Factors, who was chairman of the committee, the cleansing being carefully done in the usual manner of preparing wool for cloths, and that me believe the figures may be relied upon as correct :
No of fiecoso of
no of eurn or Wt of aeces Wh or faceco


It is intcresting to compare this table with that pre pared by the committee of the New Jork Fair. Our Festern wool-growers will learn with pleasure that the average per cent. of sbrinkage is less, while the werage woight of the scoured flececs is greater, in the case of the Michigan llecces, compared with the terino deeces cleansed in New York. It is but fair to state that none of the Western leeces had 80 small a per cent. of surinkage as the New lork prize ewe, and that one of the lieeces cleansed at Jonesville shomed a greater shrinkige than any one of the New lork fleces. For convenience we place these finets in a tabular form, viz:


The Michigan flo
The Nichigan fleeces have one and tro-tenths per cent. in the shrinkage and ninc-hundredths of a pound in the weight of the flecces in their favour. Our Western wool-growers may well be proud of this result.
The public will understand that the names of oriners of the ficcces in tho Jonesville test are withheld out of deference to their feclings. The fleeces were " brag" tleeces from "brag" sheep, and the slurinkage was so much greater than was expected that the owners felt a disappointment which it would bo ungenerous to aggrarate by a public exposure.Western Rural.
Note br Eo. C. F.-We givo the aboro report in full as we recently gave that respecting the Canandagua trial, believing that these documents are most encouraging to our sheep-brecders. Tho Nural New Yorker says that according to the conditions of the Michigan compotition, "a respectable Colsuold, or a grade stion, if admiltcil to the trial, would these seon the oriza."

# lotel <br> , <br> No 

The folloring is the recelpt :- Tako driod horbsof bear's foot mood betony, moodsage, agrimons. box, and rue, cach 2 oz, with a small piece of night shade. Cut theso small and put them into $n$ gallon of rain mater, and boil all together in an iron vessel antil reduced to a quart. When the liqutd has boiled some time add one ounce of aatimons, and an ounce of filed perter. Half a pint to bo cakea three morn ings fasting for an adult, and a smaller quantity in proportion to the age by younger persons. The same quantity to be again taken at the next full of tho moon. The patient to abstain from any spirituous liquors, and bo rery carefal not to heat the blood by violent excreise."
Meyedr for Sait in Wheat.-"Agticola," of Wyoming, sends the following:-"There has been some complaint, in this Western section, this season of smut in wheat, a thing of which we havo not bat reason to complain for many jears past. In the early times of our settlement, we mere sometimes annoyed with it, but found in the following a cheap and effectual remeds. Wo gire it the more checrfully, as we can recommend it with full conadence :-Take common lye sufficiently stroug to bear an egg or a potato ; when all is ready for eoving, nut the wheat into the lyo for a fereeconds; take it out and let it drain for a few minutes; roll in dry ashes, nud sow without delny. Though there is not much danger, care must be taken not to let the whea remain too long in the ige, or keep it any length of time before sowing, ns its vital quanities would there by bo destrosed."

## The dunada dianat:

## TORONTO, UPPER CANADA, SEPT. 15, 1865.

## The Cattle Plague in Britain.

Froxs the rarious lengthy reports of the progress of the cattic plague which appear in the columns of our latest British exchanges, it seems that there is no mitigation in the rirulence of its attacks, or in the rapidity with mhich it is apreading. In London the disease has made a clean sweep of many of the dairies, and in the surrounding counties its spread is alarming, while new and serions outbreaks aro reported from Northumberland, Edinburgh, and the somewhat remote vale of Llango:len, in Sorth Wales. It is naturally to be exnected, in these circumstances, that the public mind in Britain should be strongly affected, and accordingly public meetings hare been leld in most of the agricultural districts, to consider the best means to prevent the spread of the malady. Huch difference of opinion, as to the origin of the plague, exists in what may bo termed the educated mind of the country. Professor Simonds and Gamgee, with a number of nther eminent members of the reterinary profession, still adbere to the oninion tha it is of foreign origin, and that, as a general rule, the animals in, which it manifests itself should be destroyed at once. On the contrary, the importers and salesmen of foreign cattle, backed by the London Times, ELeaminer, Salurday Revien, and other papers of weight and position, as stontly maintain that "the disease is of home origin, and has been generated in the imparities of the London cow-sheds, during a summer of unprecedented beat and duration." The Mark Lane Express inclines to the latter viow, and expresses its "disgust at the procecuings of certain professional alarmists and their efforts to mako capital out of a calamity, by a system of monstrous exaggeration."
A careful pe' usal of the facts and speculations adduced in support of both views of the question, leads us to bellieve that tho weight of evidence is in tuvour of the "foreign or:rin" theory. © We oannot
beliove," kays tho rotorinary cditor of the Noord Britis? Agriculturist, "in the apontannous origin of a disorder, so epecilce in its claracter. atrariabls mill it be found traceable is contagion. Niwhere in tho history of the complaint, cither in our own or in other countrics, can we discover tho linderpest breaking out, tike induenza and other such epizooticz, in remoto parts of the country, or in spots removed from the influences of contagion. On the other hand, is nombly spreads after the great Continental fairs: it extends during tames of war; curiously does it travel west ward, following in the wake of the drores from the steppes of South Siberia; shortls after the stranger callle sicken, the plague affects those with tritich they bave unfortunately herded; where the sick and the sound are carelessly permitted to herd together the malady lingers long, and the losses it occasions are extensire ; on the contrary, where the arst cases are noticed, immediately destroyed, or effectively separ eted from the healthy-where the places they bave lired in are disiafected, and other sanitary means employed, the pestileoce has often been promptly arrested with rery insigniGicant losses."
The Scollish Furmer pursues a similar line of argument. It sags:-"It should not be forgotien ia tho measures alopted to check the propagation of discase from infected stock in our own country, that this malady is undoubtedl; a foreign importation, and that wo can nerer bo considered safo until some arrangement bas been mado to prevent its further introduction. It is quite tme, that liso all zymotic diseases, the Rirderpest finds the conditions mosl favourable to its derelopment in an animal weakened by condinement, damp, bad air, want of exercise, improper or insuficient food, or by any condition which tends to reduce its rital porrers, and that such an animal is more likely to fall a victim than ono in vigorous health; yet it is as certain that no amount of these injurious infuences will of themselves ensure the development of the disease in this country. With these the virus will act with redoubled onergy, but without the specific virus, these are incar.-ble of producing the Rinderpest."
County and district associations are being promptly formed in England and Scolland, for tho purpose of mutual insurance against the losses that are or may be occasioned by tho disease. The funds aro sither saised by a charge on the rental, varging from a penny to sispence for every acro of land occupied, or by a contribution of from one to five shillings for erery licad of cattle kept. Propositions have been made in many quarters to interdict for the time being the importation of foreign catlle into Britain. This course the Norlh British Agricullurist condemns for the folloring considerations:-" From abroad we have during the past trele months imported nearly 200,000 head of cattle, or probably about one-fourth of our meat supplies. To cut ourselves offrom such sunplies would obviously enhance greatly the already high price of beef, and thus tent to lower tho health of the community; and that too at a time when the approach of cholera to our shores demands that our people should be well fed, and in the highest possible state of health."
It is satisfactory to learn that increased caro is being taken in the examination of all imported stock, and that amongst the thousands of animals rocently brought into London, Inull, Leith, and other ports, not a singlo diseased animal has been discovered. Greater attention is being paid by shippers to prevent over-crowding during the voyage, and to the cleansing and disinfecting of the vessel. Railway companies, too, are exerting theinselver to uffect a muro lealduful cleanhness of their sheds and trucks; while in many provincial torms, a veterinary inspector is appointed to examine all marketed stock. "The adoption of these and other such precautionary measures" says the journal last quated, "t., e wholegoms dread whicit now everywhere obtain regarding the serious naturo of the disorder, and the thorough bellof whigh in most ounarters prevails as to

His contagious claracactor, all conspiro to placo farmers and othor stock ownors on their guard. For some timo to come a very himited and carefully conducted trado in cattle will be carried on ; all new purchases will for at least a forthight be kept entirely separate from the bulk of the herd ; especial eare sill be paid to health and cleanhiness, lime and disinfectans will bo freely used; all beasts will be watehed with zealons care ; nny outbreahs of the disorder will be promplty discorered, tho cases iwhatad, nond the further spread of tho disense arrested."
With regard to the nature of the diseax, the same joumal remarks:-"It is a blooll divorder, claracterised by raptaly protrating luw ferer, and bs typhoid infammation, e-pecially of the intestinal mucous surfaces. Some of var readiers may perlape havo a more ac carate nution regariling it if informed tha it bears in itw asmp.om sand ${ }^{2}$ 's: merrian appearanco consdderable resemblance to serieus c.ses of the gastric or typhoid fever of man. 1 more intimate experieace of the complaint does not unfortunatels materially diminish its mortality. More than onehalf of the cases of truc Rinderpest die howsiverer they are treated. Virulent and speciiic as is, this complaint, its fell progress cannot be materally shortencd. Liko smallpos and most feren, it runs a tolerably definito conrse. It i, therefore irrational to suppose that the plague when it liew attached a beast can be routed out, as naight be suppuyed frum some of the statements that hare been madurecrardang it. Our curativo measures can, at best, cunsistin t.ee rational supporting of the vital porecrs, and thus enabling the animal to outlise, as it nere, the discase. Hlonco good nursing, and small and often repe.ted doses of stimulants and tonics ore must to too relied on."

## On the Lowering of the Surface of the Soil by Culture.

Ir has, perhaps, becomo too much the custom to consider the soil of $a$ cultivated feld as merels the medium which receives manure, which manure is by vegetation converted into a crop. That this is one main purposo served by the soil is unquestionable; and, in arable culture, large crops, or at least a continnous succession of harge crops, can only bo obtained by frequently adding plant-food or manuro to the ground. Nevertheless it is manifest that after such treatment a succession of small crops may be taken from a field year after year, and century after contury, and yet tho land remain as fertile as at the commencement of the croppiag. There are many pastures in tho moist climate of tho British Isles which have from time immenorial raised cattle which cattlo when thes hare come to maturity have been sold, all their bulb and structure baving been derived from the herbage of the fieta; and yet the filold remains in such a conc. .jan as to be able to afrord sustenanco to fresh generations of cstlle, and notwithstanding that cach animal carries with him pounds or phosphorous, sulphur, lime, potassa, chlorine, and other elements, every grain of which has by tho intervention of regestation been derived from tho ground. But as the samo feld can still produce grass that contains these same elements of phosphorus, lime, potassa, ©c., tit is plain that it has some stock or storo of them; and it is in the practical develop. ment of these latent substances that constitutes a most essential part of a successfal agriculturo. This store place is of course the subsoil. The sabson contains these clements, but in such states of combination as not to be soluble in water, and therefore unsuited as food for tho grass. By the gradual action of air and moisture, however, thoy form now combinations, and do become solublo in water, and can in consequenco bo taken up and assimilated by plant. That thu soil forms a great part of plants, that the f. bsoil is gradually, citier by cutaro or by the slower aotion of the roots, becoming converted into soil, aro woll known facts. It bas not tooweyer, been as olearlo norrefivent that a areat part of tho rintince
or the country, -that is of soil and tabsoil converted into platus and animuls.-finds its way into large towns, nad is not returned to the country bering deposted either in grave yards or into the etreame which receiso the sereres), and that therefore the surface of the country is gradually becoming lower and lower. Such suast be the case, and has only escaped ob-crvation from the extreme flowness with which the proces is carried on, and from the alsence of any marh by which to notice tlis degradation of tho soil. It has been observed in very level districts after a lung period of cultiration with but scanty tnanuring, that an outfall into the uatural drainge of tho country, las by degrees become more dificulte in conseytuenco of tho slow depression of the surface.
Since the introduction of draining tiles, howerer, there las been pruduced.a mark by which thislowering effect of cullt.re can be determined. If tiles be placed say 20 incles from the surface, and if it be trae that culture carties off so much of the soin, then it is evident that at the end of a number of gears the thes will not loe so much ns 20 inches from the surface. Fron the comparatively scant introduction of tilcs, this fact h.is nut been hitherio sulficiently apparent ns to be nuiced by ordmary observers, but it is nerertheless a fact.
When fery shallon dra:augg has been p: fueced, as was generolly the case foris or filty gears ago in Eagland, this degradution of the surfice sonl becomrs of coursio more apparent, unal sereral illustrative mastances have of late been adduced. $A$ farm that had been in possession of the samo tenant, or his fumily, for a lease of -1 gears, and the greatios part of another of the same durauon, was drained carly in the first lease, and the tuks pat, as when then the ordinary custom, less than a foot deep. Being situated near a large towt, the cropt, or nearly nall of them, including the straw of the cereal graiu, were sold of the farm. During the course of the second lease tho farrace and bis ploughinen were astonisted at coming, by deeper ci.ture, nearly on the tiles in the course of their plougbing. The explanation they garo of the matter was, that from some occult course the tiles bad risen ; but the true account of the matter is unquestionably. not that the tiles had come nearer tho surace, but that the surface lad gono nearer to tho tiles. In other words, a portion of the soil had been converted into crops. cilthout having the same amount artificially adidcd, and theso crops tad been fold in tho town ; and the inevit able consequence was, that the surface of the soil had been lowered.
Tho same lowering of the surface is constantly going on in our notv lands, to which no manuring substances are applicd, and which, by repeated crop. ping and tho treazing of horices in the processes or cultivation, gradually become more and nore consolidated. The degree of surface degradation will of courso depend much on the character, chemical and meclanical, of the soil, and the course of cropping to which it is subjected. Under any view of the subject, it becomes apparent that to maintain the permanent fertility of soils, they must have restored to them artificially the inorganic elements remored by the crops ; this, Lowever, can in most eases be accomplished by opening up the subsoil, draining and deeper cultivation, to the beneficial action of air and moisture.
Deatr of Str Wuhi, ни Hooser-This voterna leader of botanical sciencu in Britain died at Kew on has 12 th ult., in the eightieth year of his age. He was borm at Norwich in 1785 , and deroted limself 10 thu sudy of Dotany from his carly youth. In 1 s L ho w.s appointed Regius Professor of Dooing in the Universiy of Glasgoin, an omice which hio most micici enily filled until Lo was transferred to tho Direct or ship of the great national borticultural cstablishment at Ker , in 1841. "Theso celebrated gardens attained under ins estimuble nanagemenet the:r present unari valled position. and were mado tho centre through which all that could be found us? ful in tho nlant world wero trensferred to suitable olimates for $a$ avel. opugg hear propertues and values, in the numerous

The Exhibition of the Royal Agricultural Society of Ireland.

Tue anmual show of this society reementy took place at Clonmel, in the county of Tippetisy. In most respects it presented a marhed improv-riu-hit as compared with the Sligo meeting of last y.... Clonmel is situated in a rich district where dary farming is extenvively practiced, and its commercial prosperity contracts favourably with most of the provincial towns in the southern and midland parts ol Ireland. Some apprehension was felt regarding the ancecss of the meetiug, in consequence of the alarin an. 1 excito mect produced in tho ;razing districts of Ircland, by the fatal cattle plag .e in Britina, and certan timid supporters of tho society actually proposed to memorialize the Lord Licutenant, for tho purpose of having the show postponed till tho danger should have passed. The Secretary's annome eve, that no English or Scotch cattic were entered, put an end to the alarm, and readered any precautionary measures unnecessary.
There were servaty-nive entries in the Shorrhorn clas, and, without eaception, the animals exhibited were bighly creditable to their owners. The first prize aged bull, "Whate Chieftain,' we learn, is an samal of great substanoe, as was also " Protessor Milter, the secoad in the same section. The displag of cows and heafers was particularly good. There were few Ilerefords, ba those showa were mell bred, and had descended from the best hlood in England. The show of horsts was onty moderate, and the repeated entry in the judges' books of '- want of merit'; plataly teatifed the opinton those gentleman had tormed of the sections. The sheep classes were well filled, the English type of Leicesters prevailing. An Irrah show of swiae, partucularly of Berbshires, is always good, and the Clonmel Rogal, held in a district famous for its cure of bacon, proved no erception to the rule. The show of implements was small, and blowed a great decline as compared with past years. The centre of a rich agricultural country such as Clonmel, might reasonably have expected a richer treat in this department ; but, although hundreds of neres of ripo corn waved in the breeze with. in sight of the show grounds, no trial of reuping machines took place.

We are informed that Mr. Joseph Cbisholm, of the 2nd Concession, Hamilton, has taken two erops of large globe turrips of the same land this season.
Agricumbrar. Exmimrioss.- We are requested to make the following announcements:-The show of the Garafrasa Agricultural Society will take place in the village of Donglas, on Friday, September 29th inst. The united societies of Nichol and Pilkingten. will holl their annual exhibition of stock, produce, manufactures \&ic., in the village of Fergus en Wednestay, Uctober the. The union exhibition of the East Durbam and township of Hopo socieices, will be held at Port Hope, on the 4th and 5th days of Octover, instead of the 3rd and 4th as previcusly announced.
Ihportation of Pcre Leicester Rays.-A correspondent in Waterloo complains of degeneracy in Canadian samples of this breed of sheep, and proposes what he considers "one of the grandest schemes" for importing from time to time some of the finest specimens of the breed from Britain. He would have a Provincial Socicty formed for the purpose, and two persons deputed every three or four years to purchaso the choicest animals, which are, on arrival, to be distributed among the various connties in the Province according to a system to bo adopted for the purpose. We do not think the Leicesters are so open to the charge of degeneracy as our correspoudent imagines, and in our view their importatiou may safely bo left to priv..to ent $\quad$ rorise, as is the case with other breods of sheep.

## Agritultural ajutelligcurs．

## for tir casant raraer <br> Notes from Lower Canada．

Enshass，Huntingdon t＇o．．（＇．V．．． 1 Scptember Shlh， 1 wi，is．

## Almis：

Nomitistanme the severity of on winier climate． tho thermometer falling occasionally to in degrees below zero，apples ean be raised，and raised suceess－ fulls，and，with those who go into applegrowing intelligntly，and on an extensive seale，constitute a very 1 were item in the total of ammal profis from the farm I was somewhat amused to see in a bate man－ ber of The Casiba Fumere，among some spernlations on the suitability of marious kimbs of apples for cal ture in Canada，the idea thrown out that，on accomet of the severits of the climate in this section of the country，we wond hare to sectio the Siberian crab and its seedlings at row of apples sufficiently hards． The write：was misted by the fact that，in the ：uljom－ ing County of Chateauguy apples do not thrive． But their failure there－and even in this county， along a belt of comstry not half a thozen miles from where 1 am writing is due，not at all to the seserts of the climses but to the nature of the soil．which is a heavy clay，with a cold．wet subsoil Whether it is pos－ible，hy propur methots of celtivation，to make apples grow thro or mos．I am nut prepared to say：but．throngh this higher tract of country，we latwe an cevellent soil for the purpose and tind the climate－uliciently fatourable for a very large number of the most approved and farourite sarieties．Goot profits cata be realizel even from the native ungrafted trees，tahen indiscriminately from local nurseries，in which they are raised from the seed．The French people from the Comaties of Chateanguay，Napier－ ville，and where they grow no apples to speak of， come roumd with carts in the fall and pay for them in the orchard 25 or $\mathbf{3 0}$ cents a bushel．At this rate，in at ordinary good fruit year．they are much more pro－ ritable than potatoes，as such trees get very litur care ame the ground ther occupy is generally math to yind rrope of hay．grain or routs，in addition．
The grafted vari dies atso are being gradually its tradued．and yield wrll with good colture，and even tolerably with very careless enthure bay one who funcien that at temperature at times of 10 de － gree below acro should doom us to growing only the Siberian crab and its seedlinge，would be radically cured of any such notion by visiting the carefully－ ：יmbed orchard of Mr．James Stemart，at Rochburn． in the alyuming Township of Inschabrooke．Mr． stowat：is well adyanced in gears．and．having sons （1）take cave of his mill．has iatterly made shilled fruit－arowing his particular hobley to which his cir cum－tances cathe him to devote a haren portion of his time．He tell：me that he has not hotiad any of the warieties of the apple embraced in the cathog：te of Mr Bailey，of Mlatesharg，as sumahhe for morthern
New lork，ton teader for this part of canala．I found the Siberian crab trees pretty mumerous in his orchard placed there，however，hot for thers own fruit but as storhat for the grafted fruit，which，when erifu don the Siberian crat，he finds to be hardher． aund to bear better than on the common stortic． Amoser the apples cahivated successfully by Mr． Sewart are the Farmense，the Twenty onace ipplle The liod Astrachan，the Jh．ilteysweet，Sops of Winc， whe＇ly finds a most vigorous grower，som takinay nvart the whole treer is ilself，and yielding ： phasint fruit，reads for use in August and septern－ her；the boidy linger，the fruit of which grows almont too larke，bejng liable to he hnuched down by wind ；and the Mhe learmain．liablo to the same olypereina as the lady finger lle has not tried the Soithera Spy，hatite loanderd that it is at＂ahy
 favourio．It is a pood lirarer，anil yieldes fratit xi codingy gratefint to the palaic，and good for eat－ ing from the time it is gathered，and craluring wenter as late as the month of March．The st．Lasrence． Fiog of Tomptins Countr，Bourabsa，and many otber ＇andard rarictics，arc also grown successfull

Some six or seven years ago Mr：Stewarls orchare and many others in this vicinity，sufiered most severely fiom a violent hail－storm，accurring in the fall of the year．The hail was driven with such fury as to indent wen the rail fences，and it smashed the bark of the trees to such ith extent that some good orehards were almost totally destroged．The bark is apt to suffier from the sonthonest sim，whose rays，of cimse，fall upan the tree darimg the postion of the day when the leat is most scorchitug．lio prokee his orchard agrains＇this danger，Mr．Stewart has all his yound trees，and some of the older ones，shentered by a strip or a complete cucehpe of ba－s－wood bark． whint ard lae sarss，not unly ato a prebentaise of injury to healthy treor，but as a cume for these which have sumbred the injury He rhowsed me one of thooe which had been ronglity dealt with in the storm to which I have referred，and，alhough the tree hat been imbard amo－t to the core the shellering batk hal not on＇y stopped the spread of the canker．but had cansed the growth of new and leathe wood about the womml．and the tree this season has at healthy and produchuce a top as almost any other in He orchard．
The eflects of the hail－siorm were a severe damper on the exertions of thore who hat pretiously been the mont succes－ful fruit－growers in the district，and for some years not muels was done in the way of put－ thar new tree in the place of lar old hattered curs But，within the last wo on throw veas，the interest in fruit－growing has teviven，and there is non nhmont mania tor plomtine apple trees．Some phant out antive trees from the ir ann numserve or those of the ir neighbours．Mhors have horn putinar in root grated treos from the Montroal museribe：：and a considerable number have been phatine tree from Rochester ammerins，whote agene darine har hat two seasoms have been doine a thriving bugerse in sumplsang onders obsamed in the nephbourhood． In the spring of hat sen a dew dwants of pears，

 been obtaned and set out．I databt vorymulh．han－ －ver，whether trees from hecherter，staidatals or dwarf．will succed．when tramsierred here fom ： warmer climate．In my own orchard lhave only a few survisors of a considerable nmmber（all studardo） obtained from liochester some dopen weas ago and a migibour（who tends his tree：very eat（fults）wat howing me the oiber day the l int oni．wineh acmains of hive and twenty from the samse source．which he set out at the same time．Good trees from the Montreal
 treament．

Eume of those whu set wht wrehards an thi noigh． hourhot haw rather singular indous at to the moet protithble mody of going to work Assuming that apple trees thrite best in hard．stony ground．tiery reloet as the site for theis ouchand an acre wh the of the－toniest portion of their farm．through which $1: 0$ plough could pase．Holes there fece indiameder and a fout and a hath，or prohapotwo fore decpe are dus with crowbar and pickiane．of the sulf bronght up． a hali or threc－fourthe comsin of simenes，and the re－ mainder of carth．The carth is mixed with enough manure an suply the phare of the stone．which are haft musside．©reppt a sunirient number of them to steady the tree and pack down its root－，and the tree thas phanted is expected to thrive．The arginnent is， that hefore its root－require to strexeh athay in search of mutriment berobl the prepared hole shey will bave acenired antirient atranglif from the he at a doen of manare to enable then in push thoir way ：mong the surrounding stonos．Apple iver phaned thits bue and hear crops far a manlor of yours．lont 1 huve get to be convincem that it will pay to sod ont
 alaerwarels hepit un proger culamatan．

The profits of apple prowing．if conductell with tolerable carc．are so great that it is surprising the orchard shonhd gemerally bear so insimnifirat at bra－ porthon to the slze of the farm．One of my neire－ mejohbours has obtamed in ome vear as many as soo husimele from an orchard of 150 treces，covering．por－ haps，a couple of acres．These，sold at ereen 2 i cents a mished，would have yichded $\$ 200$ ，cymal to．the value of the product of 15 aeres of wheat，while she fruit acte for acre，did not require：thobe of the labour and cxpense ueressary for the protuction of the prain．Bat I have no doubt that a higher sum than I have mentioned yas realized．as sumber of the trecos wore grafts，and good grafted fruit will hring at the buarest market town ata much as righty cents a bushel． On the next farm．previons in the sinom I have cpoken The here was an orchard of some som branime hice The storm worked great havoc amongst them，but vigorons qoung trees aro now growiog up to take the place of those that rere thon killed．

AGRICOLA

## The Euglish Crops of 1865.

A necentissue of the Agricultural Guzette gives in a tabuluted form reports of the harvest of 1565 from correspondents．In an editorial it is stated：＂The returns from our correspondents as to the character of the crops now being harvested，give but a rorry account of the corn felds of 186．5．Excepting the ：utumn－sown clay lands，all grain crops are this year much below their average prodnctiveness．
Wheats on the lighter soils and loamsare generally inferior．Barley on the lighter and thimer barley soits is much betow an average，and，though probably the best crop of the year，it，too，as a whole，is inferior Otts，excepting the few instances where winter sown are the poorest crop we have had for many gears beans and peas are generally below their usual yield．＂

The following is a tabular statement of the returas：
Nember of meturss．

| Crup | （1）nerager | Namis． | Ower Alerike | Total |
| :---: | :---: | :---: | :---: | :---: |
| Whent | ： | ＂0 | 9 | 195 |
| Barley ．．． |  | 112 | $\because 8$ | 180 |
| 品边， | ${ }_{40}^{108}$ | 恕 | 4 | ${ }_{126}^{153}$ |
| PLu | 3 | 6 | $\bigcirc$ | 310 |

The exceptions to the general fature are in the cace of chay－land wheats，and notably in that of wheat on the pooter chas，which is almost ererywhere un－ thenally guon．The barloy on the better class of bar hiy solls in also a fair crop wherever carly gown leas are a good crop in some districts．The root crop is a great impovement over all southern and midhand Eugland over that of last scar．Man gulds ane generally good，and swedes and other tur－ nips are tolerably promising．In the north and all uver Yorkshre and Northumberdand they are，how－ ever，being desiroyed by the grub．In the dairy dis－ triets there has been generally a gond crop of grass， and the hay has been well made．All over the east ern and sauthern counties the hay crop has been un－ usually short．

Fisn：－J．W．Langs，Eal．of Windam，inonght a load of axainto town on Thursday last．It mas the fiast load，we beliere，that has ever been taken to market in the Connty of Sorfolk．The load weighed alwout a ton amd a hallf．Simeac hifurincr．

Inomerne：Suser．－The Ringston Fournal states Mr D．W．Dubois of Libertyville．Vlster Co．，has 27 ewes．from which he raised this season to lazabs．Ife sold the lambs for $\$ 201$ ．From the ewes he sheared 1141 pounds of wool，which sold for S65．41，making a total of \＄269．41．
Conwons fore the Cumbe States．－The Wechly min Former of the 26th ult．contains the following：－ －Mr．William Squires of Copopa．Lorain countr，has just returned from Canalis West，where he has been examining the forks of Cofowolds and I．eicesters． While there lue purchased of Mr．F．W．Stone，of Gumph．a Cotswold ram and three Cotswold ewes， all gearlings．Tine ram weighs near three hundred pounts．＂
Fist Wrin are informed that Mr．A．Mekinnon，of the sth line lispuesing，sowed this spring three and a hall businels of hax，and has made by the sale of the fiav and surel sat This is surely as profitable as ＂hoal growing，We hase also been shown a fine specimen of hops grown on his farm，as he has grown a large gutatity this season．We understand that hop growing is na the increase in lisquesing．－Jfilon Champion．
 Hastings（\％ronicle that Mr Archibald McLellan，of Carador，lately undertook，for a wager，to cradle ＂ight ares of spring wheat between sumrise and sum－ sed．The trial came off on the gth utt．，on a geld of wheat containing shater．Mr．McLellan commenced the wark at is velock A．v．，and at is mimutes to 5 niclock $r$ is the last stroke of the cradle lerelled the lact portion of the wheat，and thus Anished the beld－ the wholo timo occnpica in performing tho bercalesn lask bcing clepen hours and forty－two minates．

Tue United Stateg líueat Coor of 1865.- Mr. Newton, of the Agricultural Department roports a aleficit of over twenty-six million bushels of wheat in the crop of the present as compared with last jear's. namely:-
rrop of 1864.
Bushels.
 $160,605,822$

Decrease.
$20.211,695$
The loss is as follows
Ner England and Midule States. ....... . 657,383
Maryland and Delaware
1,719,671

Total
26,241,69s
All other crops, particularly corn and potatoes are most promising, except tobaceo, of which considerably less has been planted. The oat crop is very large, and the hay crop in the West has been much injured by wet weader, but is still abundant.Wrekly Ohio Former.
Nichol and Pilkington Agmiditema. SocimtimsWe leam from the British Constitution that " the birectors of these Societies met in Ilamilton's Hotel. Elora, on Friday last, 1 lh instant, for the purpose of uniting the resoures of the two Societies in rider to hold a joint show-to arrange the prizes, appoint Commitlees, ic.. for said show.
" Alexander Watt, Esi., was appointed to the chair. It was resoloved that persons joining the Society after the lit of June last, shall, if they obtain a prize at the show, return the sum of soc. out of their prize money to the Secretary as an equivalent.
"The prize list was then considered and revised. some alterations from last gear's being made. A few of the rules were also changed. In regard to thurough bred catte it was resolved that they date their age from show to bhow and grade catile from the list rannary previous to the show. Catres must have their atge mamked "pon the ticket. The hill as
amended was adopted, and 100 copies orderen to twe printed. It was then resolved to hold the Union Shon at Fergus on Wednesday, tha October next","
In appointing of Judges of Produce, a slight discussion arose as to the propriety of having the grain weighed. Some objected on the plea that large grain and dark in colour might take the premium it weighed. While another sample, not so large, but much fairer in colour would not get a prize, and thought the matter of weighing should be left to the discretion of the Judges. Wo observed during the whote of the proceedings that harmony and good feeling pre wailed between the sister-sonieties. The prize list this year speaks well, and as soon is the Managing Committee renorts to the Secretary where the dinner shatl be held, the bills will be issued.

## CThe extustabla.

## Tanning Small Skins,

Ens. Rchal. New-Yonken:-Secing an inguiry how $t 0$ tan small furs, I will give $y 01 \mathrm{my}$ plan. If green, eprinkle the llesh sade with sallpetre and alum. (ground fine.) then fold the llesh sides together, ro: it up, tie it, and lay it away one or two days. Then unfold and rub with yaper or something. :is dry as possible, and lay them out to dry. Work and pull them when most dry, so they will dry son. Dry skins may be treated in the same way, by first soaking till soft, and wringing out as dry is possible. I can make such leather ats the sample I send you from sheepskin, by the following process, which is also good for furs and small skins :-First, trin the skins of all useless parts; second, soak till perfectly soft. and flesh them well; third, wash thoroughly in suds of soap and sal-soda to free from grease, and rinse in clean water to free from soap and soda, then rub them ans dry as possible; fourth, dissolve two ounces of salt in abouta quart of water, and ade three quarts of sweet milk (or four quarts of bran reater), and one ounce best sulphuric acid; finh, put in the skins and stir briskly, forts or aty mimutes. and take them dripping from this and put them in a strong solution of sal-soda, anilstir as long as it foams.
Rub them from this no dry as possible, and hant in it Rub them from this as dry as possible, and hang in a cool place to dry; work them mien nearly dry, and hair or wool, and sour milk will take ont the lime and aslics. The black fur was tanned by the tirst pro cegs (with saltpelre and alum). M. Janer.
P'crry Center. N. Y., Dec. 10, 1864.
Rexushs.-Thesamples of tanned skin accompany ing this loter aro very finely prepared. Tho sleep skin is very strong, white, and soft. Our corres pondent bas onr thanks for his commanication; anl palging by encuirics received, many of our readers
Fill feel obliged.-Rural Ncco Yorkicr.

## Personal Noatness.

Sore may say that it is quite out of the question for farmer's wives and duaghters, who havo so many duties to perform, to alwags look tidy. Some do say so, and I have often heard them; but such declarations do not, in my opinion, militate against the general principle. A wifeor daughter can be personally aeat. no matter what duty she may be employed at. Those who allow themselves to appuar negligently dressed on the plea that they have something to docooking, washing, scrubbing, whitewashing, \&c.,are pretty sure to be habitnally untidy. A torn, fatded, soilea, hat-fitting gown, with a sun-bonnet in kecping, worn in the house or ont of it, slipshoul shocs. sec., no appearance of a white collar; hair squasled upon the heat, and plenty straying about the neekdo not give the husband, if he posseses any itea of cleanhiness hansed, a very elesated deat of his wife's attractions; nor will the daughters, who may be equally delinguent, impress the young men of the neighborhood very favorably.
I ma a wife ado househeeper, and have been a daily worker for twenty-five years in my hourchold, but I have never seen the day when I conld not take time to atteud to my personal appearance. System and a desire to be always cleanly, will notonly afiond the necessary time, but will make the habour one of the highest pleasure. My husband never has had. not never shall have, occasion to twit me or the girls in relation to a matter which every womans prite amd self-respect ought to proride arainst.
Will not thenmy sister housckeepers give this gnes tion of domestic propriety and respectability their serious consideration: They shoukl remember that it not only concerns themselxes, bu' ospecially their danghters, and in no small derreo heir soms alvo. The bible tells us that ${ }^{\circ}$ eleanliness is next to godliness," and I believe in the bible.-Marna, un Germantocen Telegraph.

## How Sweetmeats are Made.

We: extract the following from a very interesting article on this subject, in a recent number of Once a Weck:-" What an atmosphere of dust meets us as we enter the manufactory: The shop we are in is powdered from rafter to floor with a fine impalpable powder, that remuds us of the interior of a tlour mill. and the workmen are moving ghosts, even the fringes of their esclashes are whitened to their tips, just as the hoar frost whitens every tiny filament it can lay hold of. The dust is that of fine starch. the substance used as a matrix for a certain class of cast sug:t goods. We are in that part of the factory now where those "sweets" are made which are demi-opaque -lite soow-water frozen. The sugar is not boiled to a great heat, but is allorred gently to simmer on the fire, whilst the monlds in which it is to be cast are being prepared. This is done by spreading the fine starch over boards, quite cvenly, and then inverting another board orer it, studued mith the forms it is intended to cast. The man we are looking at is about to make anmulets, or sugar rings, and as he lifts the inverted board from the smooth starch, we see hat it is covered with monlds of these indented rings placed at regular intervals, and as close together as they can go. Another workman now approaches
with a tin receptacle filled with sugar, fitted with six ponts. With great skill and knack he pours out the sugar. and fills ring after ring indented in the starch. as fast as his arm can conreniently travel from left to right. Not a drop is epilt, the sugar standing in wach ring with a slightly cirved surface, just as a brop of water would do that had fallen upon dust. These stareh moulds aro used for all those sweetneats which contain duid or liquor in the interior. The liquor is mixed with the melted sugar indiscriminately, and both enter tho mould together, but, cariously enough, the latter instantly crastanizes on the outside of the former, and thus, by a natural law. the liquid farouring-essence becomes imprisoned. It was thought very foolish of Gcorge 111, io ask how de apples got ir'n the dumplings, but we have little loubt that the manner in which these liquors get inside the sugar plums has puzzled miny a head viser than lis. the casting of theso liquor swects employs a large number of persons, nal the most extraordinary monlds are obliged to be inrented to mect the requirements of tho tradic. Balmoral boots, Tyrolese bals, scissors, knires, fish, and all kind of things, animato and inanimate, aro thns produced, the only limit to the design beig the size and melght of cach articlc."

Cors Pascazes.- Boil eight or ten cars of cornpass a sharp knife down each row, and with the back be particular to leave tho hull on the cob. Ono gill Hew milk, two teaspoonfulssalt, two eggs well beaten, and as much four as will make a bitter as thick as gridde-cakes. Then add the corn. liave the lard boiling liot, and drom a tablespoonful at a time. When brown, serve hot for dimaes. - Ere.
To Pbesthwe Tomatoes.--Prof. Mapes says:-" If tomatoes are slightly sealded and shinucd, and put into bottles, and those set in boiling water for a fers minules, and corked and sealed, the fruit will keep as long as desired, and if eaten when first opened will have the same taste as when just picked from the vine:". Irobably a better way is to yeel the tomatens and boil slightly so as to expel the air, then put in heated botthes and cork at once. . 111 depends on the exclusion of the air. The more perfectly this is done the longer frit may he preserved.
To sisew leabs.-'To every pound of pars when pealed put half a pound of leaf sugar. l'ut the fruit into a stew-pan, and cos it with cold water, nnd shat the lid quite clooe. stew the fruit gently till tender, and then add a few lumps of sugar. After stowing the pears two or three hours, put in the eloves-fwenty cloves to six or eight pounds of fruit and the peal of two jemons. Keep adding the ugar by degrees. It the syrup is much wasted add tittle more hot water They require stewing about wo hours, very genlly. Whea they are mearly done, add the jaice of bo:h lemons-it will add to their flavour and brighten the syrup.-Rural tielo Jorker.
Water-Proor hoot sores.-If hot tar is appliced to boot soles, it will make them waterproof. I.et it be as hot as the leather will bear withont injuring it, applying it with a swab, and drying it in hy the fire The operation may be repeated two or three timas during the winter, if necessary. It makes the surface of the leather quite hard, so that it wears longer, as well as keeps ont the water. Oil or grease sottens the sole and dues not do much in keepiag the water out. It is a good plan to provide boots for winter during summer, and prepare the soles by tarring. as they will then become, before they are wanted to wear, almost as firm as horn, and will wear twice as long as those unprepared.

1 lhemanatho for Praserving Leather-We translate from the Gerber Courior a receipt for a preparation which is said to insure great durability to leather, and to make it very pliable and soft. It consists of four articles, tallow, soap. rosin and water. These ingredients are prepared as follows: Twentyone parts of tallow are melted in a vessel, three parts of rosin added, and the two when melted mixed well together. In another vessel seven parts of good washing soap are dissolved in seventy parts of pure rain water. After it is dissolved and the mass heated to the boiling point, we add the part prepared before, let it boil once more gently, and the preparation is ready for use. It is especially adapted to boots, harness leather and belting.-Shoe and Icather Meporier.
Sune Eizs.-Alinost erery person, during some period of his life, has bcen annoyed more or less with inflamed, diseased, or weak eges. Many of them are made worse by the laphazard ap"lication of severe remedies. There are certain simple applications, however, which can scarcely injure, and are acarly alrays reliering or beneficial. Among these, simple cold water takes a prominent rank. It is, however. often applied by washing or mbbing $\rightarrow$ the friction of whic's sometimes overbalances the remedy. in good way to apply it, when the apparatus is at hand, is by means of i fine jet of water, driven from a pipe through a fincly perforated rose, so made as not to spread the water, but to throw the jets nearly parallel. In the absence of this a good way is to place two or three thicknesses of fine linen cloth a little larger than the eye, dipped in cold water, on the closed lids. If pain is felt in tho ball, the addidon of a tenth or a trenticth part of laudanum is relicving. But re liare found no better way of applsing any liquid to the ese, than to take it in a good sized feaspoon, and hold it in a level position up against the closed lid, the bowl of the spoon very nearly fitting the outside of the cye. In this way the ege may be washed without any friction or chatiug Whaterer. If finc dust has passed into the cre, it may be easily washed in this way, ly opening and shuthar the lid a fer times, while within the spoon. Sometimes water containug a small portion of sall is found good for strengthening reak cyes, and this may be readily and comfortably applicd to tho open esc by means of the snoon just described.-Couniry Gerticman.
 yoa who is the bert dressed girl at a ball, and yon will hardly ever lind them agreeding in their annery dio a step turther and compare dise costumes which have been selecied, and vo: will discover almosi to at certainty, lhat the wolina hats sughed ont the mont eapensive dress in the romm. whereas the meta has
 one has sufiered herself to be ro impreserd be the richmess of the materiat, the elaborateness of the cmbroidery, the costliness of the trmanass, that in the end shu has found it simply impussible to leave these things ont of the calenlation The other happy in lis ignormere has hooked only at the general ethect and has prob, bly given the preference to a young lady who eqown has no other merits than those of being scrupulously neat. becomingly cut, and perfectly well mate-- Acturday Reviene.
Tus: Jas who is in Dump-of course, it is ridientonsly simple in ate, but how ean at man eat, drink. sleep, and be jolly ander the pressure of debt? How on ciath can he walls forth well-apparelled and appointed, and face the ma: wioze unpad-for tronsers he is wearimg? Huw date he smile at his butcher, or his grocer, who are at that minute ten or twenty wuineas a-piece poorer for his post dimers and teas? How dare he pat his children o: the head when he knows that if he should die that night their futare is nholly uncared for? IIow on earth can he enjoy any lusury, trusting onty to lis dotaing insiates, if the day of pecuniary rectionings should suddenly come: How can he face the rascally rellection of himelf in the looking glas loner enough to tie the crasat which ourtht to tee choking him? Ho: cath be have the impudence to go among honest, upright people, sud expect cordial recognition, or any recognition at an!: How dare the brazen thicf. in his time clothes, look into tie trank, hunest face of the swarthy thechanic, who has proved himself a man by that day s hand haboury 1 can' :ce 1 low can he pas a station-hou-e or a policem.m without asking that summary
 poor. ftiendens, ragged wrethes, whom admerse cir cumstances seem sometimes to have so hedged abont that nothug can help them: I look upon stach mers wihl a wonder that never abstes.-Finny Firn.

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## Egg Packing.

We hare received itom Messm, Morrison. Tagior \& Co.. of this city. the following useful directions for packing esors, When this operation is carclessly or imperfectly per.ormed. a con-iderable proportion of the egrs is sure to be smashed, and the cream of the profit, so to speak, is lost. We therefore commend the timely instractions, which we quote below, to the careful perusa' of our poulery rearers:-
I'ach in old, lys, sweet oats, and in flour harrels, or strung busit. Liciter tophe in new barrels and charge for them, than 10 ram the risk of breakage, by using old hoopless barrels and worn chimes. Cun mence by drising the hoops towards the centre of th. larrel. the lower ones upward, ant the upper ones downward, nailingr fas! fo heep their places. put ta oats to the depil of $\underline{0}$ inches. and les the tirst layer of esges consist of 41 domens, or $I$ hand, cover wit:, oats, mbling them well in with the land, athl pressing the sides of the barrel with the finger ende Ine a lid.-of a cheese box or lusior firkin-a little lese thath the interior of the barrels, press on with one foot and shake the barrel with long, heavy shakes; this done, take ont the lid and pat on amother layer of exers. increasing the number to the centre of the barrel. and afterwards decreasing it. follow with coveriag of oats and the presing of the hand and lid as before until the bitrel is full. which when properly done, and, providing it is an ordinary four barrel. shonla contain 1.5 layen, or between 7 and so doze:a. Care should be taken to kecp the ends of the exes about hatf an inch from the barrel. When the exes are within two inches of the chitne, the usual quatity of oats thonth be put on, afterwaris snme sofostraw-mast be swect-suficient to render it a dinicult mater to luew the barrel. The neglect of this latter particular is the canse of three-fourths of the breabiage in the packaze nt caras. Sce that the homags are properly nailed at both chats of the barrel. Our shipments to Nuw lork of esgs packed oa the albove plan liave carricd in comparative safety; and country dealers and packers by ndoping this mechod wonht be wed repain for their trouble, in the ndvance of one or two cents per dozen on their consignznenls. to this oz any other market.

## A New Incubator.

Severar of our corre-pondents have adderead to us empurits reppectug the construction and mote of action of an appatatas for hatching the capes of ponltry. by me.an of artifical heas. No: haviag any pruetical hnowledge of inenbators. we have hitherto been mable to furmish our readers with any reliable information on the subject. I revent isuse of the London Fedel-a very high authotiay-contains the following deveription amd illustation of such a contrivance, which we gladly ley bere our readers unabrilged, in order that they may judge of its construction and its merits for themelver:

zahl of the ducks, guinea-fowls, and pheasants which lual been hatched in the machine. Wo did not see one sickly or diseased chicken of any arge in the large pouliry satu a tuelued to the establishment, and cam therefore conscientionsly recommend the apparatus as well adapted for hatching, where numbers of fowls or pheasants are reguired.
"Mr. Upham, of 5, ILoughton-place, Ilarringtonsquare. N.W., the proprietor of the patent, is nbout to extibit the machine in action in town; in the muntime. on readers may form an acenate idea of its general character and structure from the engraving, representing a 200 egg machine, with four drawers each capable of containing fifly hens' or seventy pheasants' eggs. In the woodent one of the drawers is shown partly pulled out and moler the nearer drawer the ingenions but simple lifts by which it is raised to the required height are shown. In fromt are the two artificial mothers, one of which is raised up to slow the depending locks of woot. these are boht covered with dianel. In front is the hatcling tray, and the feeding. cage is slown at the back. The stool by which the gas or lamp is raised to the required height is seen through the open door. the chimney to carry off the products of combustion from the lamp, and the thermometes by which the temperature is regulated, require no furthes description."

- The apparatue, which is the subseret of a nen patent by Mr. Minasi. is a great improvement on his original invention, and appears in its preseni state to be as complete and as succusful in its working as it is pusible for any inserument of the lind io be.
- The heat necessary for the incubation and rearing of the young chickens in the earlier stages of their arow in is derived from gas. o: from the combustion or uaphtha in a lamp so constancted as nut to require dention for many dars. The heat s, generated rarms a reservoir of water, the moderside of which is corrugatod in a regingenious manner, so as io support, by the aid of wires, a series of emall narrow sandbags, against which the egxs are preswh. The close contact of the whole of the exge whatever mas be their variation of size) with the warm anad is insured by their resting on cushions of spiral springs: these are contained in drawers or sliding tras w, which can be casily drawn ont from under the incabator for the purpose of examination. As the cars hateh they are removed to a part of the apparatus above the rescroir. This is most ingenionsly cons racted : there is a small tray for the chickens until such time as they are thoromithy dried and strong, when they are passed under a kind of artiticial mother, which is peculiarly constructed in imitation of the plumage of the hen; it consists of a number of woollen wicks. each about four inches in lengib; these hang down loncely berwen the legs of low s:ools placed over the warm reservoir. The chickens nestle between the pendatat locks of woul, which thus form an atmirable initation of the war:a feathery plumage of the parent luth. Conaected with this part of the apparatus is a large feeding-cage, iato which the chickens ran for food, water, and exercise.
"We have receutly seen one of these machines in active operation, and cramined and handted mang of the clickens hatcled by it, some of which lad been reared by the machine itself and oiluers under hens. The chickens were of all ages, and wero strong, dralthy, and vigorous. Tho amo may bol


## The Cock of the Walk.

You strut about by ack and brook And think your galt aud plumago shor son. And jel, for all sour lons look,
old Cocin, 1 have you.
Frith brestst so slect and ege so bright, As If yo: wero tho pink of henuar, You'ro sturtel as coll of wrath and sute As izstap Bomer.
 And urm as you in limu and foather you cuff and sumble everywhore I:a overy wenthor
Tumag whea lie lai d doan no hara,
 Siou ruffel your nock as lig'e my arm And knochict lam sprawing-
nown in a inimk as straigitc's a mitlAstoalNiol Intutchag cleinThen up and ort will head and tall 13 dis ara level.
llut hougla your prowess you may bast, du ithougit in dreary dumps so sad hoI hnow a t whech to plity moit, The son or cadery
Gou'll tiver your day to strut tho flooz Curi-sure, with pluck and volco aspleant, Biat time whil reckoa up your scoro, Joulica-roost eymat! It is not that the markehiman Ma: Ic:mpt mo for your tracies to sell yoo; It is not of tho dripplag panaBut thes, I tell you:
All thmes and cllines and books record Tho Scalpure truth - receng't \&cos ItTiry that unstioatho the oppressor's sword slall jcelsh by it.
Bomme the dars when old and lamo Tion droms the cyo and droop tho pintor, Yous toral splet terel-tamu Winh trmo's dominton Think you this bantam now so groen, Will then furset theso deacly grudget? Illoll givo jour raemory, I weco, Snmo sni.ino madero-Bavion Culdionior.


## The New Plant, Libonia Floribunda,

Lmonia Flemancida is a South imerican plant, not unlike an enlarged Cuphea, but with the nowers more conspicious and the habit erect. It comes from Brazil, but it is also found on tho clesated plateaux of the south, so that there is good reason to hope that it may. like the cupheas, servo as a bedding-out phat in summer.
It is a charming bushy semi-shrubiyy plant, with a tubular corolla, bright red at the base. passiog into bright gellor at the moath. It flowers abundantly, the whole plait being corered with its bright pendent corollas. Our figure represents one of its branchlets.
M. Lescuyer, in tho Horliculleur Francais, montions that it had passed the winter at laris in a grecnhouse without leat, but it requires during the winter as much light and air as possible. It propogates easily by cuttings. Scotish Farmer.

## Effects of Destroying Small Birds,

Tire phenomena of the present season are remarkable. If we go for shade into the woods in this leafy month of June, we stop short before thickets where the stout young oaks are as bare as in January, or show only the skete tons of leaves, where caterpillars are still searching for some remnant of moist green food. If we meet the country doctor in his rounds, be says that he cannot ride in shadel roads without his hat, in the thot noon, iecause he finds hat and coat-collar thichly strewn with caterpillars, which hare dropped upon him as ho passed. In the parson's garden, the goose-berry-busbes show some withering fruit, but no foliage; and instend, a show of caterpillars actually covering every twig. In the squire's pleasure-garden the ladies are mourning over their roses, almost every petal of which is pierced, or the very heart eaten out by some grub or dy. On any grassy bank whero the mayfarer would like to rest there is such a coating of white grubs that ho turns away in disgust. If we go out in the moonlight, a dozen coikchafers knock agninst our faces in fire minutes; and we foresce the profusion of fat white worms which will, in consequence, be turned up by the plougl next year. The wall fruit has already receired the wound which will tura to decay before the autumn, and the canker is planted in the apples and pears, which rill be deformed and seamed, and lard, and without flavour at croptime. There never was a finer agricultoral prospect, but for this; but the farmer itreais secing tho mangel leares blown and corrupted by the rast families of grubs hidden in their substance, and the collars of the roots infested by big cater. pillars, fattening on the sweet juices which he in tended for his cows.
It is rell if bo knows that tho rooks can hely him in this last case, and that thes do not want to eat the root, as ho once beliered, but the destroyers of the root. Theso melancholy sights are not, howerer, nll that is to bn seen.-They present themselves in districts where there are sparrow-clubs, and men and boys who shoot a littlo bird whenever they unvo a chanco. Thoy aro seen there or zealous and patriotic
rural constablo, or any lounger tho has nothing olst to do, presses his services on the resitents, to net the iry on house or wall, to ront out the spaces undes the eaves, and make a clearance of every sparrow. finch, thrush, swillow, of other winged creatures. Whero the pest is not found, it is whero these bird destroyers are not allowed their will. When refused civilly or otherwise, they sucer or stare, and find something to do in calling the neighbours to witness that the silly proprietors will have no green peas. nor anything that grows in juicy shoots; that the cherry-trees and the roses will be disbudded; that only the lardest green currant or tro will be left on each buach; liat tho gooseberries will be found sucked hollow, and as fall tithe of the cherries and ;inablerrinagono.
Sush is the spring prophecy; bat when summer has cume-this particular summer-strangers stop to wonter at, in grdea heve and there where all is green


## GIDONTA FIORIDUNDA.

and bright, amidst a series of damaged orcuards and kitchen gardens, and bare conses; and the paradise is sure to be the place where the birds have been let alone. It is true, the rows of peas hare had to be covered for a whilo with thorns; and some netting of bisues has becn required, and some precautions in regard to the fruit trees. It is true, also, that the small birds have helped themselves to somo of the food of the poultry, and to a certain share of the fruit but there is the difference that where the birds are banished the precantions aro of little or no avail white they lunve $n$ good clance with the birds for partacrs. This year, for instance, somo proprictors have dono everything they could think of. Thery have syringed their plum trees with nunseous decoctions to keep off the green fy; thoy aro spriakling road dast thickly orer their kooseberries, and aro dissolv-
ing the white grubs into froth orer whole banks, or plots of grass; they are emploging regiments of children to pick of the caterpillars, paying then by the pint or quart, but they cannot orertake the damare, and are almost ready to give up the contest. If they can find mischief going on in a gatden or field where tho birds have not been meddled with, they begin to triumph, unless they are araro of the true answer. That answer is givea by some lover of raral lifo-some observer of the ways of birds and insecti - who sagy that a single brood of nestlings in the ivy or the hedge has been seen to derour hundreds of grubs or other insects per day, showing that if Nature were let alone, there would bo millions so got rid of in a mile, (as, indeed, we know before by the Frach report); and if, after the insects had been left to their natural enemies, there wero still too many, what might not the infliction become if thes wore left withont cleck? The check onght this year to have been very strong. The swallows cane carly; the sparrews burst out of the hedres in crowds; the hlackbirds and finches have been whistling, and piping, and chirping, as if the vorld were all their own. But this is only where they are allored to lire; and there are too many parishes and districis where thes are not.
This is no trifo, and tho present scason onght to be a lesson for futuro years.-Daily Neces

## Three Gardon Crops in One Year.

A cornsspondent of the st. Catharines Constite tional communicates the following for the purpose of showing the great results which may be obtained from a small piece of land, by timely and judicious management:-" Early in spring, immediately after tho frost had thawed out of the ground, I can up the driest part of my garden, without applying ang manure, and on the 20th of March I sowed Early Dileston and Daniel O'Rourlie I'eas. At that date the snow still lay under the fences, and some of my neighbours laughed to see me planting anything so eally. Well, the peas all grew nicely; were not at ail injured by late frosts and occasional showers of snow, and produced a most abundant crop of delicious green peas, which were ready for the table very soon after other people had commenced planting their first crop. By the widdle of June the peas were all cleared off. The ground was then beavily manured and dug up, without delay. Just then I had a lot of good, strong Early Paris Caulidower plants, whici had been prerionsly transplanted or "picked out" from the seed bed. These I planted on the pea ground, in rows 30 inches apart, witering the plant; three or four times aftermards. In about three reeks, when they were growing rapidly, I raised the earth around them by makinga deep furrow betreen every tiro rows of caulidowers; this greatly stimulated their growth. Finally, in the latier part of July, I planted cetery in the furrows betreen the caulidowers. The celery plants grew even without watering, being partly shaded by the camifower leaves. And now, as I write. many of the cauliflowers are fit for use, and are being daily removed-just in time to leave the celery in full possession of the ground. As fist as tho cauliflowers are cat ont, the earth isturned back on the celery, which process will be repeatel at intersals until the celery is full grown and the blanching completed. If a crop of cabbage is preferred to cauliflowers, the same results can bo obtained, with even greater case, by planting an early varioty-such as tho Littlo Pixie, Ox Ilcart or Win-ningstall-immediatels after the first crop of peas is cleared off. Here, then, aro three of the very best crops that can be grown in a garden, successfully raised on the same pieco of land in one suort Canadian season; and that. too. mithont ang extra cultiration or manaring. and no greater degree of aciontiac skill than erery intelligent man can readily understand and practico for himself."

## Exporiments in Protecting Froit Trees the Past Winter.


In mild weather, the beginning of lecember last, We had three enclosures made. curering reperebely siached of twro shutters, twents feet long, about eight wide, with requisite gable ends, made of a singlo Wide, With requisite gable conds, madie of a single with a thatching of straw:
They were completed on the Gith of December, except the thatching, being well mulched about the bease with leares. The 7 th was 100 cold to liatch. On the Sth the thermometer indicated 110 below. zero: on the 9 th 120 , and on the 11 tha maximum of $16^{\circ}$ was reached. - the sererest cold of the winter.

The Apricot and Cherry trees were planted in the spring of last year. Hale's larly l'each covered were planted spring of '63, and were killed nearly down to the roots by the very extreme cold of J.aniary list, 61, which caused a vigorous growth ot young wood last summer, unfarourable to fruitfulness, and but fer fouit buds were formed.

In the absence of the straw cosering, we had fearfor the safety of the buds; but, except in the Apricol house, which ras not as close as the others, thes were not injured. A part of the 1 pricot buds were destroyed, but on some of the trees enough were sared. and they are now maturing three to tive doach of fruit oach. We beliefe this is the methon par axel lance for growing the Apricot. The buds on the Ifales Early I'each set their fruits much mere generally than other kinds in the house. We have a firuur able opinion of this new rarety, at least the tre appears to be better than any other early one we
hare tried, and re are anxiousig wailing to see the fruit at maturity.
The trees in our old houses are producing well. So peach blossoms in the open air in this region, and Hale's Earls, and other trees in the same rows, and precisely the same condition as those protected, in fespect to gronith, were killed nearly to the ground

## Large Pansies.

A wheren in one of our horticultaral penodseals we do not remember which, gives his experience in growing large pansies, as follows:

Last gear we had a bed of very fime pansules, theseed of whech sas obtaincd of ithe most relsabl. fiorists. We gathered the first and earhest seed from this bed, and planted as soon as ripe. They cane up and became strong and healtay plants befuse water We trangplanted them into a niccly prepared bed jus. before winter set in, then covered them with liter from the corr-yatd ; and finally spread over the whole a quantity of evergreen boughs. As soon as winter was fairly over, we took ofr the evergreens and raked off the litter, and we found them as fresh and green as when first set out. I do not thank one of them died. We nerer had a bed of pansies keep better through the winter. We have between tho and three thousaded plants, many of them in bloom. They far exceed our expectations, being nuch superior erery way to those of the prerious year. We have thought they would not be pretty if hey were any larger. more than two inches in diameter, many ol them tro ioclses, and nearls all one inch and threefourths. Cultivation lias done much for this flower.
We hare done a little in this way ourselves, with in the lait conple of years. and have had most ex cellent success. Wie did not transplant ours, but allowed them to remain where the seed way sown. only corering them in the winter with manure. To obtain large pansies the foregoing mode must be fol-lowed.-Germanioun Tclegraph.

Bras Prefer Insects to Fretr--i correspondent srites the Country Gentleman from Newark, N.J., that he is well convinced of this fact. He says: "Those Who are fond of shade or fruit trees shond spare the birds. We bave cherrics for them, and raspleerries and strawberries if they want. I noticed that many of the leaves on my apple and plum trees had been eaten by caterpillars, lut could not find enough of those insects to account for the damage ; a fact which was explained when I discovered the young cowbird, catching them, at about the rate of one a minute-
conint for the purpose within ten feet of the door comint for the purpose mithin ten fect of the door
where we were pasing in and out, as tane as so many chickens We have now no clatter from the robiny that hare their nest in the garden; thes hate drop ped their sonz and are busy attending their bromit Tbe rpotted turush was as familiar, and as free wath his song all the spring. Jut now is silent. I suppose ther, too, are brooding."

## Whon to Pick Apples and Pears.

Tue: Prairit Purnor says:-Most people let apples and pears heconve two bipe before they gather them. They want to ser them fully ripe-realy to fall of the tree befure they piek them. This is wrong. If piched afon days before maturity they will keep lunger, culolly more higlsy, and command a higher price in market. The precise timo to pick is rather dificult to determine. The best criterion is to raise the fruit up and bend the stem over, and it the stem parts from the shoot without breaking, the fruit is ready to pick-whether apples or pears. Pears should be picked proportionally earlier than apples. The quality of fruit is also improved by early gathering. After being picked, it should be put in tight boxes or barrels, and kept a few days in the dark, if of summer or fall yarieties. Here they undergo a sweating process, and when the barrel is opened, the fruit will be mimd of the brightest crimson and richest golden colours llalf of the secret of success in orcharding. is in knowing how and when to pick fruit, and how to get it to market so as to command the highest price and readiest sales. Fivery ones experience must govern him. and the move he studies this matter, the more expert he will become. We are anxious all our remers should think while they work-that the mind should be exercised as well as the muscle in farm "preations; and particularly should this be the case in fruit growing, where skill of the highest order will always be suitibly remarded.

## Early Tomatoos without a Hot-bed.

A conmesposnext of the Genesce Furmer gires the following as his wife's method of getting early tomatoes: The lst of Jarch she takes a box alled with light soil (which she has obtained in the fall) -ows the sced, keeping the box in a room mhich is always warm from a store in the adjoining room, and the phants have the morning sun. When the plants are about three inches high she transplants them into boxes made of thin boards wider at the boltom than the top (say six inches square, and fre mehes square, and seven inches high, without the under boards beciog fast, as by that means tho plants can be muted from the bores to the place in the arden letter) keeping them in those until the spring frovs are urer, then the gronnd being prepared, the hules dug. the boxes are slipped into the holes, tappang the side of the box so as to let the plant fall duwn, and the box be raised up orer the plant, close Whe soll round the tomato, and the work is done The plants will not know that they hare been moved They can be bept in the honse if needed until frui is set. My wife will have ripe tomatoes by the first of August-or may be the very last of July. Sbe has the best success of any one in this ricinity. There is a small whito worm that troubles the plants when ir tobacco is shaten on will stop their work, for the tomato plants raised in the house are tho best, for theg are stronger than bot-bed plants.

Tae Erergrex Phivet.-The Etergreen Privet, when well grown as a shrub, is a most bcautiful busin when in bloom, and as highly odoriferous; the flowers arc greatly relished by bees. During a short visit to the residence of Mr. IIenry D. Sherrad, near Haddonfield, N. J., hast Jmue, I noticed a large and handsome l'rivet shrub in bloom; evers goung twig was crowned with a cluster of rich and raxs white blooms; almnst the entire foliage was hid by the tlowers, and their fragrance was perceivablo many sards off. Firom morning till night, swarms of bees were about the bush, both in clear and cloudy weacover Althongh the lawn was corered with white ine red also in bloom the adolining ficles containe As the l'riret is most generally gromn in hedges on accome of its compact gromit and beautiful foliago. many persons may never have seen it when in bloomas a shrub The annual or biennial clippings of hedges prevent their blooming, as the fowers are produced upun the ends of the young shoots of the brevious yeares growth. The Privet tlourishes on $n$ great varicty of soils; but it hlooms most frecly where the sul is not too rich. Very few shrubs lave such a pretty foliage as the lriret, and very fer are
more deserving of a place in the pleasure ground.
[To the abore well-merited praise of this beautifu] atrub, we may add, that it will grom and do well on dry gravelly lanks, where scarcely anything else will :lo.]-Gardencr's Jonthiy.

Jew Wenever you seo a caterpillar's cocoon in
our orchard, get it of the treo and trample unon it. Salt for Celerr.-All gardeners use aalt freely for manuring asparagus,yet ferr within our obserration ever use salt for celery. Celery being a marine plant, wo have found a free use of salt in diluted form with water, ono of the best manures. Salt mingled with compost manure, applied at tho bottom of the treaches before planting out, is also good, but once a week watering in the trench with weak salt water, will produce a greater growth and more delicate celery than any other may of growing that we have tried.- Cor. Ohio Firmer

Brack Kior.- Wre hase numerous enquirers respecting this, and have had the experience of only one person in treatiug it. Mr. A. D. Brown, of Mercer Co., N. J., states that he lnotes the following remedy to be effectual. A tablespoonful of chloride of time (Bleaching l'owder) is mixed with a quart of water, and after it has stood, occasionally shaking, for a fer hours it is ready for use. The finot is pared even with the healthy bark, and the solution applicd to the wound. Mr. I3. says: " I will guarantce that the Black-knot will not appear in that place again." A simple remedy and casily tried. $-A m$. $A g$.
A IMone-didd: Portable: Feace for tie Garden.A correspondent of the Boston Cullucator says, that for several years he abandoned all attempts to cultivate strawberries, because his hens and turkegs run at large, and atrawberries were fagorite eating for young turkeys; they picked all the ripe ones in a bed much sooner than he could, and the hens, to say nothing of tue chickens, did likerise. Some eight years since, he made an attempt to overcome the difficulty, which was so successful that quite a number of his friends adopted the plan, which he describes as follows:
"On a rainy day, I set the men to sharpening one end of sereral bundles of lathes, and when finished I took tro strips of inch board, one and a half inch wide, spread them about two and a half fcet apart, and nailed on the lathes, the width of a lath apart, the strips being abont trelve feet long ; that gave me a moreablo fence, wish I tied up to stakes driven into the ground. This fence I used to protect my veretable beds when first planted in spring, and When the strawberries began to form, mored them to the strambery beds. If the fowls were disposed to trouble the tomatocs after the strawberries were gone, I enclosed them with this portable fence: so that with a very small outlay at first, I furnished my Gamily rith strarberries, and sent many to market, haring found the raising of this fruit a source of profit.

Meind Strambemm llants.-A correspondent of the Journal of IIorticulture sags:-"Many of gour correspondents are constantly complaining of their strambernes 'going bliud,' and it has occurred to me that perhaps a little light may be thrown upon the cause of failure in so many instances. About thirty years ago, when I commenced housekecping, I had a garden about 200 feet long, which I planted according to the best of my judgment. Among other things I made sereral beds of strawherries. In the mon:h of Mas, an old gentleman called upon me, who ras an amateur gartener, and famous for the cultiration of strawicerries. L.ooking at my joung beds, his first rords were 'Now you must go over these beds, take every plant up which docs not show bloom, and throw them all away.' Of course I reasoned with him that if they did not bloom that year they would next. 'Not at all,' said he. 'Throw them away, you will linve plenty of rumers from your blooming plants which will give you fruit, the others never will.' Well, I mas a young man, and, what does not always occur, I took the adrice of the old gentle man in part, and will now gire you the result. All the plants not showing bloom were carefully removed amd replanted on cach side of the middle walk, about 200 fect long. They were taken great care of and grew to be splendid plants; but during three gears I waited in vain for fruit-they neper prodnced a toasaucerfal, and not one perfect berrs. To tent tbe theory still further. I took some of the runners nad found them entirely vorthless. Of course I hare fol owed this plan ever fince, and lave nerer failed to have a good crop. What 1 have said refers to strapberrieg in the garden; but may not this account for the failure sometimes in pois \& I should like some one to test it and report progress. For my own part, fruit-bearine Dlants'

## British cerantugh.

A Goon ano Bav ILamestr.-An Inglish paper says that " the difference between a good harvest and a bad one in the United Kingdom is cqual in moncy value to some fifty or sixty millions sterling."
Sinothal: Conbat.-A British exchange stater that - a cat belouging to Mr. George Macadie, Hillhead, Wick, was atiacked by a male and female partridge while she was out in scarch of game in a neighbouring field. After several vain attempts to repel her assailants, grimalkin had to give up the contest, and to run for it."
Tar Porato Distase,-A correspondent of the Scoltish Farmer, writing from the gouth of Eugland, states that the potato lisense is yery bad in some districts, and that more than one-half of the crop is already lost. Many districts of Sussex smell ofiensively of the decayed hanlm, which some furmers are cutting and taking of the fields, in hopers thereby to retard the progress of the disease.
Cats in Bresseis. We learn from the londua Field that there is quite a rage for cats of the Angora breed in Brussels at the present time. "The demand being largo and the suppls limited, the dealers have resurted to strong measures to satisfy the market The other night nearly all the Angora cats in one quarter of the city were stolen, to the astomishment and distress of their owners."

Beef for Great Briman.-A British exchange announces the purchase of six thousand barrels of beef in New York, for phipment to Great Britain. It gays tho dreadful cattle discase, which is now raging
in Europe, will hare an important infucnce upon in Europe, will hare an important influcner npon American markets for cured meats, if they shall ho so lucky as to cscape tho disease itself. A large adrance in batter and cheese may be expected.
Otrer inust. -The Carlisic Esaminer relates the following curious circumstance: On lididay the Carlisle pack wore bunting near Penrith, and they drore out and killed a fine bitch olter. Nore curions to relate, however, a nest of younc ones was found in a crevice close at hand, containing three of the brond The pups, which were scarcely as large as new-born kittens, wore carefully taken care of and brought to Carlisie. They may lie seen any day in East Towny Street, where they are being suckled and tended lsy a cat. Pussy is a most considerate step-mother, anil will no donit rear them in more gentle ways than their unfortunato dam.
Rerlacive a Con's Mons:-The following pamgraph appears in an editorial column of Shorthorn intelligence, in a recent issue of Bell's Messenger:"Didany of our readers ever try the experiment of replacing a horn which had been sloughed or cast? We did so the other day, and with complete success. On Saturday, the 22nd of July, a boy brought a horn to us which he had been one of onr cows lose bv entangling it in a stile. A friend volunteered to put it carefilly on agtain; and in the course of about treaty minntes from the time of the accilient. the cont was once more in possession of a pair of horns. Twenty-three days hare passed, and the horn secms as firm as any in the herd. No bandage or fastening was applied."
Fisming trrin tue Eikicmic Ingit.-A Britioh exchange give the following interesting account of an experiment recently made at Melle-Isle, to fish at night by means of clectric hight:-"The light was produced by a porecrful electro-magnetic machine constructed by M. Bazin, the well-known engineer. The experiment, which was conducted by MI. Bazin on board the Andalouse, in the presence of 1500 persons assembled on the pier, was completely sucA porson who was prescnt statcs that nothing large. A porson rho was present statcs that nothing can be
more exciting than fishing at sea by night with the more exciting than fashing at sea by night with the
aid of this light. As soon as the submarine laniern was immersza, shoals of fish of cvery description came to sport in the illuwinated circle, while the Gishermen ontside itspread their nets from their boats. The light illuminating the deep sca, the fish urriving in shoals, attracted by the fictitious sun, tho boats at the edge of tho liphted circle, the deep silence, inter-
ruptcd only by the grating of the electro-magnetic ruptca only by ine grating of the electro-m
machine, is described as an imposing sigat."

Pralits ano Flowers adone the loon.-Some of the English papers express pleasure, it not surprise, at the result of efforts which have recently been made to enconarge the growth of plants and fowers by the lower classes of Lomion. Exhibitions have been held, sometines in the schoolrooms of the children, and small promiums awarded for the best display. One cullection. brought down from the top ot a house, comprised two hollyhooks, two dahlias, peraniums, de. lirom another attic gardea came a lithe box of mignonette in bloom, in the centre, with beans trained to sticks at the ends. A two.jear old oak, grown from an acorn in a bottle, was the pride of one woman, while nuother, with a very humble display, said she had been trying to intercst her husband in her window garden, with the hope that it inght draw him away from the public house.
 a correspundent of the London Ficld, that four empty egg-shells of the Great Auk were receutly sold by public auction, realizing the large sum of one hundred and twenty-two pounds sterling. Such of our readers as are not professed naturalists may probably enguire what were the peculiar circumstances that conld give to these egg-shells such an enormous value. The 1lec inptemis of linnxus, and all subsequent naturalits, the great auh of the books of our hoy hood is a species which no longer exists. The last living specimen known was that secured in 1831, for Di: barkett's collection. The great auk was a diving bri, closely related to the razor-balls and guillemots. ahhoagh in size it considerably surpassed these species, its length being upwarls of two feet. The egg specimens recenily sold, were discovered with some others in one of the museums in London, when it was deeiled supertumerary ones should be parted with. They are abont five inches in leugth by threc in breadth, and of that peculiar byriform or tupering shape characteristic of the eggs of so many sea-fowl. In colour they are very pale yellowish-white, blotebed with irregular patches of dark and light brown.
Cobocr in Suommonss.-A correspondent who has devoted considerable attention to this subject during many years breeding experience, writes to Dell's Messenger, as follows:--'I have kaown a roan cow breed to a white bull, and then to a red bull, and the calves were roans of cery similar hue and shade, and both calves were pretty equal in amonat of colouring. I think I conld produce several instances of this 1 have observed that when a roan cow and a white bull have been put together, the calf has rery scldum come a mixture between the two, but has
been cither white or of a roan colour as dark as the been cither white or of a roan colour as dark as the
mothers, or datker than hers. If the roan cow te mothers, or darker than hers. If the roan cow
put to at red hull, the oftspring comes either roan, red, or red and white-not white; but often, if roam, lighter than the dam. Sometimes, hovever, a red roan, or mixture between sire and dam. hed and roan seem to mix better than white and roan. If the two colours refuse to mingle, the result is a lighter rom, or else red with moreor less of white. When two colours are put together which don't mix very readily, it secms as if they didn't know what to do, and so, hy way of setting the difficulty, they both yield their claims, and one of the original colours (red or white) comes ont ; or if there has been any distinet peculiar marking among the nearer ancestors, that perhaps crops ont again."
Makisi-1 Tins Aybimes.-The following anusing account of the manner in which those animals are prepared for exbibition is furnished by the Mark Iane Eiperess:-"The show dodges of the Ayrihire men are inexhaustible, and not mattended with dauger, as one man in his last twenty-four hours of a 'stroag preparation' failly burst his bull. A great deal depends upon the jockeging during that time. A cow is generaliy kept sharp set till four or five hours before the sloon. If she had been on too fine food, her panne's rould be drawn up, and the ressel would lean forn urd. and the teats not in position ; whereas if the pannch is gradmally filled in these last five hours, firs by ziving her common food. and then by coaxing her inte quantity by bettering it at erery supply, shtr is filled to repletion, and the resecl hangs taut and square. ble giten gets her pound of sall at night, and between tho tro agencies she should be turned out quite the thing in the morning. Cows are also kept well un to 'tid' during the show season with gruel mado of linsecd-meal, oatmeal, and flour, diluted rith their onn mill, and sometimes as much as 3 lbs. of treacle in it. The shape of the vessel is
also as carefully looked to and adjusted as the
Spanish coek's comb, which was, while the fashion set that cocss comb, in pasteboard splits ill just before going into bingley Hall. A board is put before going into bingley Mall. A board is pat belor the ressel with hows yor the teats, and tied
with strings round the cow's back, so as to keep it in position, and the ressel is laved with cold water all night, to make it fit and contracted and give it consistency. They are also washed over with buttermilk, and the liner lights jut in with soap and gum. Sometimes the corr liarbers use butter-milk for the legs, and tako to hair-oil, and the horns are rubbed with charcoal or hawhorn ashes, in açordance weh an old superstition. In short, the day and night before the show are, in many instances, quite as important as ant artist's glazing-day at the lioyal Academy. The judges are ull well up to 'the hithe game, Which extends to scraping rams' horns almost to the quick, and then japanning them, and is on all fours with that artistic clipping to hide weak points, against which old Val Bartord, K.C.B. (Knight of the Clipping Board), struggled so long, till the Royal English Society issued its ukase."

Tae Rival of Jerked Beres-The trade reporier to the Irish Times says :-"A report gains ground that beel can be kept fresh in cask and sent anywhere; if so, from present advanced prices, there is no doubt large imports will take place and supersede the sale of jerked beef at probably 3 d . or 4 d . per pound." Thereupon a correspondeat of the Grocer comments on the announcement as follows:-"This, I suppose, is in allusion to the operations of the Fresh Meat Preserving Company, whose loathsome-looking "preservations" sink and sweat under glass cases in one of the galleries of our Exhibition. I hear bamquets are given by the company, who feast their guests upon the roast beef of old England, and then show them, through gluss, preserved specimens of what they (the guests) laye no opporiunity of tasting. "Potatocs and noint" is the title of a tale often told, but seldom illustrated; but here we have an instance of how the wise scientifio friends of the poor man judge of the good things sealed aud set buiore them by a new limited (too linited in its prospects, I fear) joint stock company. Another interes!ing fact connected with this mportant discovery is that the closed vessels containing the recat are sometimes too small to hold the gascous products introdnced for the prescrvation of the contents. The consequence is the usual and very natural one; I am infurmed that the innucent attendants of some adjacent cases at the Exhibition were a few weels since frightened from their propricty by the explosion of a tin canister containing a joint of donltful-looking mutton that preferred corruption to confinement."
Suari Pox Ayong Surer. - In a recent communication to the Morning Post, Professor Gangee invites the careful attention of flockmasters to the folloring important points, which cannot be overlooked with impunity wherever the disease appears:-" 1 . The flocks must be carefully wathed, aud the slighteat eridence of sickness in any single animal should lead to instanl separation, and the examination of those parts uncovered with wool. The early symptoms are slight fever, drooping ears, clapped wool, and a Ree-biten appearance on the inside of the arms and thighs. The red spois increase in size, and about the cighth or tentis day after the carlicst symptoms cach red papula becomes elevated and transparent. A clear limpid liquid accumulates. and soon becomes turbid. The pustule has a white and then a yellowish or bromnish opaque appearance; the skin around it is pale. Each pustule is flattencd. and has been compared by the French to the head of a mail. A cettain amount of transudation of lymph occurs, and the pustule dries, so that in a few days a yellowish grey or bromn seat is perfectly formed. The scabs then fall off, and leare red depressions in the skin. It is most important to watch and separate the mildest case, as it is the overlooking slight instances of sickness which so onea leads to the discase taking deep root and exterminating a tlock. 2. Inoculation must be strictly and unconditionally avoided. In Germany, where sheep are much horned, tho operation may, under certain circumstances, be anmissible but here it never is. I appeal to our Wiltshire experiences in proof of this. The losses in the inoculated flocks amounted to 19.59 per cent., Thereas amongst the non-moculated the $\bar{j}$ only amounted to 16 per cent. The discase was very virulent, but readily suppressed hy separation. 3. I should advise the Sussex harmers to do as, on my recom=endation, was done in 1862. They should club together, and pay for the first, viz., the smallest loss, and bury the sicis sheep below ground. I do not wisi them mautonly to destroy a whole flock, but the malady may be limited to rery ferm if the plan of early
slaughtering is resorted to."

## zotistellantous．

Who shall Address our Agricultural Fairs？
 cusses this question as follun．It has lunt heran the custom at the anamal gatherimo of Agricultural and other societies，to have an aditress delivered touching the object of the societs or asociation．Ala the different societies for the alrancement of know－ ledge．literature，mechanic arts，science，history，l．av． medicine，and divinity，select some one tu gire an address at their annnal meeting，pertinent to the object of the societs，on some subject of practica importance to its miditors．This is verg beuefitting． and generally derelops something new or usefil on whakever subject they may treat．All these organiza tions generally select one of their profession to de liver the anoutal address．This is as It shoulal be，for one of their own profession is better qualified to interest them，than one of another profession or calling． He knuwn the history and objects of the society better than oae wifose thoughts bare been trained to other intellectual derelopments．These annual meeting： have been prodactive of an incalculable amount of good，wad buse arakened an taterest that notheng else wonld．How is it with the anricultural societies？ Are they uddressed us one of their membersf It is a lamentable fact that a majority of the addresses at Agricultural Fairs are given by those belonging to ＂the learned professions．＂This should not be so． There ought to be farmers within the bounds of every societs capable of giving the annual addrusses They may not bu in command of elegant language，or able to make rhetorical tourish in beantifully turned periods；but they may do what is of more import ance，gire an address embudfing sonnd practical Fiews it all that pertains to progres in agriculture It would be tuobed upon with surprise to sece a farme addresuing a society fur promoting the interests of larr，medicine，or divinity．but just as appropriate ds it is for uen sho bare never held a plough．or swung scythe，or performed the simplest duncey of agricint ture，to atiempt to mastruct inen who have grown gres in the pursuit of agriculare，as to the beso method of cultivating our farms，what crops are adapted to our soil and climate，what leadeng staple is most profiable，or what breeds of stocli are be＇si adapted to the differeat branches of agricultute Tbise are ituportant questoons，and none but those of large practical experience can answer them to our profit．＂
Be Alrre．－I his world is not made for a tomi，but a garden．You are to be a seed．not a death．Plan youmelf and you will sprouk luary gourself，anh yon can only decay．For a dead opportunity ther． is no revarrection．The only eajugmeat．the only use to be attained in this world masi be attained on the wing．Each day brings its own benefit，witi it hat none to spare．What escapes to diay is escaped for ever．To－morrow has no orerflow to atone for the losi yemterditys．

## zuartats．

## Toronts Markelm．

## ＂Camada Farmxr＂Omber Seph 15， 1865.

Tho weather during tho past week bas heen somewthat chango
 at the trme we write．It is bright and sultry Our strect market has been well patmized latels．Firery day bruga a sceno ot cberfill acturty as teams taden with bistey como pourt of th the commona reatr by evcry caranco to the city．Akout 1：000 busa els por day haro thus toe．offered fur sule in uur mashech aut

 gether excoeds the sup ly There ts a brisk eaquiry for Hour，ano the jutivo of all brands liss an upmard tendency．Our quotations areies fullows：
Flour－market nomalal，no stocks and fow transcinons．Iugutry


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trane etraily，at oic to e3c．
Oats ith gimitacmand．at 32 C 20 Jic．
Corn unchingeind
Puvinsurs－lingroring，Bulter good supply at 20c，to 22c．per io


Eggs－market steads，whth fur suphly；roold 13s jer dozen on tho eirich．
Tbatms（nere）－licentiful，ant of excelleat quallts，with fatr tomand，whocale airi retal，soc
theof -1 demanit，but slisthty higherf prims cuts So to ase per the fow and corm puenes dest．ge pir its．




Tha， 111 find 1 sua
scano and Ltalice．
IImmiliton Markets，Sept．15th，ISGs．－Wheat，Whle
 3is itratos，iariey． 1 from ：3sc lu 25 c fier to Fegs， 130 to 150 per cuzen．Tomatoes， 60 c



Ht．Cnthnrinew Marketw，Scm 15th，1803．－Full Whent 50 to is ：0 Oatmeal percwi．，\＄0 to 80 os tour，per 100 los
 ise lienf，peri fo to k wuttom，bor lu， 5 c to oc．hame，jer


Pembroke Narkesm，末ept 1：th， 1865 －Fiour，per bbl，


 busthel． 30 c to $3 \mathrm{~s}^{\circ} \mathrm{c}$ Butler，per It，lioke to 13 c May，per ton， $\$ 0$ to s．
Cindany Marketa，Scpl 12ih． $1 \mathrm{Saj}^{\mathrm{j}}$－Full wheaf per


Belterillc Morketh，Soph 1＇th， $15^{\prime 3}$－Fall Theat，per butuct rui $\$ 105$ to $\$ 1: 20$ do whita $\$ 1$ is tu $\$ 130$ Spring wheat． per bushel， 00 c to $\$ 1$ harley，wor bushel， 60 cto 67 c leas，per





Iincardine Marketw，Soph 15h．1S6u．－Fill Wheat
 ts Hay jer tont io Eiggs，8e．Wood，il to fil so．Green

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 ed lower for unsount，and le to de loner for wiund，silce 80.000





## gadvertiscments．

## DUTCLI FLOWERING BULBS．

Tare subscriser has just recctred from Inolland his anaual tri－ portating of lin his fr auruma nlanting，conslsting of Hy： cinith，Tulpa．Comens，bilics Ne．\＆e They aro all Girst－class Guibe ni：d have arrited in cace lent c nditon．Ho would call sjectal atichtion to the cl that tho sclection he offers this tame
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## AGRICULTURAL WORES， stratyond，C．w．

## JOSEPH SHARMLAN，

MANUTSCTURER of Reanimg and Sowing Machlaes，Threshiog


Tho particular atien ton of t ec Farmers of Canaiz is directed to
 lured by me，tomo ot whelh can ine feen during the Gimithon treek，on tho fiur brounds in London it moseras valuabs Improvements，introduced that $v$ ar．＂hath now not included in noy pe nelpal tinp oroments cousith of on attachurbit yaitcrited），for rasing or loircring tho Gmin Table，and a

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## MORETON LODGE， GUELPII，CANABA WEST．

## 6th ANNUAL SALE OF PURF BRED <br> SIORT－HIORNED AND Hereford Cattle，

## Cotswold，Soathlown and Leicestor Rams，

berksimire rigs，aylesbery decks and DORKING FOWLS．
$\mathrm{M}^{\text {R }}$ Kiomies has recetred instractiona from Frodetrke Wm NEWK．BI AUCTMON，without reserio．

On Wednesday，the 4th day of October，
A cholce selection of about is head of Young Bulis Cows ana Holfers，in good cundithen，froin his celebrated bords or short horned and IIereford cattle，bred fro asallonavilo and well known berds of tha cias．
Also will beofered about 40 magnificent Sheaillog and older Rams cinslsting of Full．Bloode 1 Coin Widds，southatown
 Rerkntife Pign（Boirs and Sowt）of tho parese blood． Trams－Linder \＄2s，eash；$\$ 25$ to $\$ 100,3$ months；orer $\$ 100$ TxRMx－Under ind crodit on approcod endorsed notes，if required．
Salo to commence，with rigr and Poultry，al 10 a．m．Luscheon Salo to commence，with rigr and poult
catalogucs，with Pedlgrces and other particularg may bohad on application to

MR KTONLES

Guejph，C．W．

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ACRE：near TOODDSTOCK，Co of Osiord，with exunalso Alsw．mprovoments well achpica for a balry or Stock rarm． ubto improvements，haviag a spring on the Lot well adaplod to run a cheese Factory Miso， 100 ACRFS ncar FMBRO，Co of considerablo mprovements
For partlcular，apply（posi－pald）to
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## FLAX SCUTCEING MAOHINERY <br> with mallory＇s patent break，

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