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## The Streetsville Flax Works.

Ererxtinga conacied rith the prugress of the fias industry in this culuntry, will be regarded with intereat by all who can laty just claim to the possession of patriotic feeling, ana we are sure that all such will gaze rith pride and pleasure at the engraviug which accompanico this article. It is a faithfal pui tare, dramn ly our umn artist on the spot, of the Linen Xill recently put into operation by the S.rees ville Linen Manufacturing Company. This Company was formed loy the junction of two eaterprising and well-known ifms, Messrs. Guollerhiun \& Wurts of Toronto, and W.D. Perine, Brothers of Doon, and other places westward. Though the building which forms the chief object in our engraring presentsamost imposing appearance, the priaci pal outlay of capital has been for what is out of tight, viz : the claborate and costly machanery, with which the interior of the Mill is fitted up. Somo idea of the magnitude and importance of this enterprise will be formed when we state that already no less than $\$ 100,000$ have been inrested in it. The Flax Works consist of a Scutch Mill, on the opposite side of the river from the bailding which figures so opnspicuously in our engraving; connected with which are out-door rats with capacity for relting 25 tons of flax at once; the Linen Mill; conbiatigg of a main building $50 \times 55 \mathrm{fect}$, and a wing $40 \times 60$ feet, both being fro stories high; a separate brick bualding for gonerating the steam Fith which the establishment is heated in winter, a rope walk and some smaller offices. From 70 w 103 hands are ordinarily cmployed about the worhs, wat in apreadiag time a much larger number is requircd. all the procesees of fiax dressing are carried unflom the retting of the straw to the preparation of the aient description of dbre. Certain articles of linen mannfacture are also produced. Abunt 900 tons of tiax Were obtained last winter in the imuediatr Hoinlty of the mill: Most of this was bought with the wed on, at \$14 per ton. The crop last season
was not a very even one as to amount of sield, varyiug from $1 \frac{1}{2}$ to $3 f$ tons per acre. In the farming county round Elora, Margborough; and Peel, the usaul average is about 3 tuns per acre. Scutching was commeaced at these works in November last, and tholaten madafacture in March. The quatity of fas ubtaiaed in the neighbourhoud is unly abuat vele-fuarth of what is required to carry on the mill. Thero is, therefore, prety wide stope get for increas ing lue acreage of flax in the adjacent county. The addationat material required at tho mill has thas far been ubtwined frum rerine Brothers in the elinpe of long live libre "as it is called.
A brief acconat of the uperatiucs carried on at these works will dubblegs interest our readurs. these works will duubness interest our reaulers.
First there is the reting process, which in favonahle

paring "long-line flax." After it leaves his hauds, it goes to the spreading machine, then it is subjected.to. the first and second drawing, next it passes through the roving-frame, then … spinamb-frame, wifen its preparation as warp is completely enished. Tow of various grades is left afer hachliog. The best quality is first dusted in a hind of cglinder, then sorted, next it goes to the picker, aud from hia to the lapper who laps it on to laps for the cards; uest it goes through tho carding machine foom which it passes to the dramino fame which pats 14 mou webs. or belts; then it is passeal to the specedea whuch lags it up and puts it on bubbins; next it goes to the spianing frame and from that to the yuther which puts it on to a number of aulls, esch of whoch in turn goes into a shattle, is puintu a loom and wove. At present, the mill is engaged in weaving the double welsbed linen out of which seameless bags are mude. Each of these is $1 \frac{1}{3}$ of a gard in length The bugs are cut ofl by man hinery and hemmed with a sewing-machide afler which the garo pressed and baled. IuU buing put in a bule. Three bales per day are taraed out, or trom 1 euv to zuvu per week. Their wholesale price in the market, varies from \$10 to. $\$ 15$ per bale Counter-trine is also manufuctured. This passes through. all the stages that bare been mentioned ascept wearing. lustead of bping woven, it is.furmed into balls by a rerg ingenious piece of machinery invented fur the purpose: Cordage is also made. This requires a Weather takes from ire to eight days. Next the good quality of tow. The poorer grades of tow retted fibro is spread out to dry. This takes from, are made into rope of variqus thickincseses. After threc to ten days, according to the seaton and atato of passing through the processes already described, the weather. The dried intro is then broken and scatchcd. For breahing, "Randall's Flax Break" is used, a simple machino in which the ordinary roller breaks are so adjusted as to do the work without ribk of catching the bie..eds of the attendants. Revolving ocatch-knives are used, andü moreablo. perpendicular boasds, against rifich the brachem of flax are hold while in contact with the critpee. Next to the scatching comes the hackling, a sort of comblog process -which separates all tho refino materije apa noferior fibre; leaving on an arerago about 50 cr 60 ver cent of long fibro. One hackler is constantly buss pro-
it is pat through tho spinning-jenny, the strand former, and the laying machiac. Afterwards; th-idressed on the ropewalk and coiled reddy. fur.the market. Al-present, only abuut $300^{\circ}$ lus. of rupu per day is being turned olt, but the mill has capa city for making from $600 \cdot$ to 700 lbs . The corduge manafacturo is not get fully under way. Miken overything is in completo operation, all the material rielded by the flaz fibre will bo worked up: on the premises; except the refuso tow which is sold to the paper makers, and used by them in the mauufactire of certain kinds of paper.

## Familiar Talks on Agricultural Principles.

## manere makina.

So mnch bas been said in the course of these • Talks about the necessity of supplying the soil nith plantfood, that we shall take it for granted our raderi are convinced that thes must, if thes mouh farin profis abls and well, proride themselses with in stuct of manure. Llow to do this in sufficient quantits, bo comes a question of much interest and ufsume dif ficulty I. can only be accumplish at ty beepmig a due proportion of live animals, and by practicing a judtclous rotation of crops. Even by these means, the utmost cconony and good management will be ro quired, in order to manufacture sufficatot manure to supply the wants of the land. But econony and good management are almost unknown qualities as It respects the provision and preparition of manure An English writer on practical aurnculure. says, "our dung-heaps are the opprobrium of Britisit Farming." Ile justifies this remark by adverting to fact, that while a farmstead containu hovels and sheds for aheltering everything else of value there aro none for the muck-heap, and also by showing that no caro or pains are taken in the location or ane almisture of the materials of the dunghill. If su grave a charge will lic against British farming, assuredly there is far more ground on which to base it in reference to this country.
If the dung of animals were fit tur appheation to land as soon as dropped, and there were almays ladd ready to receire it. there would be little or no need for muck-heaps and dunghills, but although the dung of animals tbat chew the cud might he safely ased forthrith, since it is mure thuraighls decomposed than that of others, yet it is ubiruas that it is ooly at certain periods maure ean ber applecid to the soil. From the fact that horses do hut chew the chal there may often be ubsurfadin than duppargs p.irticles of hay, straw dc. tugedure whi grana sede in 80 whole a state as to be quate capable of speedy regetation. On various accounts, therefure dung mast be stored for a t.me, and if this so rightly dune, its quality will be improved by age, and it will be rendered conveniently aralable for use when required.
The value of farm-gard dung can hardly be over estimated. While artifical manures are useful for special crops, and for the supply of particular elements of fer:ility in which a soil may he deficiיnt, it is the peculiar excellence of farm jard dung that it furnishes all the elements of fertility and contans all the material of plant-food. It is always rich in ammonia, phosphates, and potash, which as we have seen are prime elements in fruitinl soils. Nut only is i of benefit in the was of addug to the ructuness of the soil. but it acts mechanically upon it loosening clay land and binding lau! of lighter texture. Moreover by its gradual fermentation it has an effect on the temperature of the soil, whele asit decomposes it exerts rarious important chemical inlluences Sucb being the natural adrantages of good farm yard dung, as compared whit any and every other klad of manare, it is the worst poliry inaginabie to neglect tho best means of collecting it, preparing it, add atoring it for use.

The ides of roofing in the manure-heap has a look of the ridiculous about it in the view of many. They are incredulous as to its utility and cannot ace why it in not just as well to leave dung to be exposed to san, wind, and rain. A little reflection sill suffice to remove their impressions, and to show the wistom and ecionomy of sheltering the manure pile. In an enomeration of the losses sustanded by farmers, AIr Alderman Mechl cites " the money wasted in the rowshirg, drying, and ming'.nj of theit dang heaps," and baping justly remarked that to tabo dang out of the yard after it has been well washed by the ram, then make a beap of it, to bo again well washed and dried, and then again to move and cart it out to the
land, is a great was to of time and consequently of money. The manure-house need not be a cosily affir, very little more expense than that of the roof boards is necessary. A sort of pit or cellar ahould be dug. and this covered in will sufice for all practical purposes. Tho increased value of the dung thus housed will moro than pay the cost in a single season. Lurd Kinaaird made sume experiments with the ful lowing resulte, in regard to the comparatire value of corered and uncorered manure. Ho found that two parts of the game field, dressed with equal ydantities, the one manare prepared under coror of a ruvf, and trodden down by catte, the other manuro from the open fold-rard, gavo in

| 1551 | 117 tons | if tons |
| :---: | :---: | :---: |
| 1852 | 54 Lushols | 42 bushels of whe |
|  |  |  |

Not only is the dung-heap injured in quality by being luf wholly umprotected, but it is diminished in quan tity to an extent almost besond belicf. From a series of experiments made by Koerte. the loss of height sustained by the exposure of one hundred loads of mamure to the artion of sun, wind, and rain was found to be as follows. One bundred londs
In $\$ 1$ dars mas reduced to 73.3 loads ; loss 267 loads $\begin{array}{cccccccc}" 25: & " & " & 64.4 & ، & " & 35.6 & " \\ & 351 & " & " & " & 625 & ، & " \\ 07.5 & "\end{array}$ ". 193 " ، " 47.2 " " 52.8 "
If for any reason it is deemed adrisable not to dig a pit or cellar, the ground where the manure-leapa is locamed should be scooped or hollored out, a few inches lower than the general surface, and it would pay to pare or concrete it to prevent the juices from sinking into the ground. To beep the rain from running into it. a ring of clay or sods may be made around it. If the moisture is superabundant, it should be led of hy a small gutter, and conducted to some lowar lerel, where mould, weeds rubbish and ans material capable of absorbing and retaining the fer thizmor juices has been placed in readiness to take it up. In forming a dung heap. especially under cover cire should be tuken to spread moist and dry material in alt-rnate layers. as by the latter extracting dampness from the former, the whole mass becomes alite molst. The formation of compost-heaps is a mode of preparing and sarinz manure that cannot be too strongly recommenned. To a quantity of farm-paril dung, mar be added all manner of vegetable refuse weeds, leaves, turnip-tops, road-scrapings, turf, peat-muck:-in short anything that will decompose The mass should be lifted and mixed from time to
time, and, when dry, watered if possible with liquid manure. A dressing of salt and slacked lime will improre the quality of the compost heap

In some such way as abore pointed out, every farmer should provide himself with an adequate sulf ply of " 1 . No. 1" manure.

## Alkali.

Tos term is constantly used l, f.rmers in spaking of manures. It is well to understand its deriration aud precise meaning. It is of Arabic origin. Dr. Dana says that Kali is the Arabic word for bitter, and al is like our vord super; we say tine and superine; so kali is bitter ; alkali, superlatively bitter, or, truly, alkali means the " dregs of bitterness."
Alkali is a general term which inclades all those substances which have an action tike the ley of wood ashes. If this ley is boiled down, it forms potash. What is chielly underatood by the term alkalies, means potash, foda and ammonia. Potash is the altali of lund plants; soda is the alkali of sca plants: and ammonia is the alkali of animal substances.
Polash and soda are fixed; that is not casily raised in vapour bs fire. Ammonia alrays exists as vapur unless fixed by something clec.
Lime, fresh slacked, has the alkaline qualities of potash, but woaher, - 80 las calcined magncesia. but in a less degree than lime. Here are two substances carthy in their look, haring alkaline properties. They are called, therefore, alkaline carths. When tho tongue is toucled rith a bit of quick lime, it has a not, burnin
ties. bitter taste. These are called alkaling properties. Besides thesc, they bavo the power of combining with and taking the soar out of all sour liquids and acids; that is, the acid and the alkali neutralizo each other Were it not for this, thero would probably bo no suol thing as regotable grorith.-N. Eng bls bo no suo
land Farmer.

## Bromus Scluraderii.

'Tus ner forage grass scems to have nttracted considerable attention of late among sereml of the leadmg botanists abt agriculturists of Europu. In tho July number, 1s65, of tho Journal of Agricullkre (Scottish) there is an claborate article or this grase, Hllustrued by drawing. We are not aware that it is known in Canada, or the neighbouring States. As the range of our cultivated grasses is exceedingly limited, the introduction of any thing now, suited to our wants and chmate would prove a valuable acquisition. A ferw words, therefore, in relation to this new caudidate for favour, will be acceptable to our readers.
Bromus Schraderii, so namodfrom the German botanst, Schrader, who first described it with accuracy. several sears ago, appears to be a natise of the American temperate zone, west of the lhocky mountains, but its ramge in latitude is prohably not very extenstive. Uf its first introduction to Furope thero seems to be no very reliable information, Lamson, the great seedsman of Edinburgh, procured somo seed from the Botanic Garden ol Berlin, twenty years ago, and it soon atracted notuce ly its rupidiis of growth, succulency, and seemingly highly important fecding qualities. He afterwa-ds presented pachets of the seed, for parposes of trtal, to Vilmo fin of l'aris, and to various settlers proceding to the Australian ColoL es ; the resulte, both in France and Australia, proved favorable on the whole, as far as they curld be ascertained. From that timo to Withun the last two or three years bat hatte washeard of the progress of this grass.
In 1561, M. Alphonse Larallee submitted an elaborate memoir of the history and properties of the Bromus Schraderu. On good new soil, the first cutting fielded at the rate of 50 tons of green grass per imperial acro; and the aggregate of three successive cuttings luring the same season, reached a somoWhat larger nmount. Other instances are adduced, almost as great, but it should be remumbered that this very tali succulent grass, yields, when made into bay, only about onc-fourth of its weight in a green state. It is also ofen impracticable to make the later cuttings into hay that will keep, eren in a country like France, where the autumn is long and commonly dry and warm. The seed is nbout the size of light oats, but weighing only from 16 to 20 lbs. a bushel. It is stated that on good soil, with favora ble weather, 150 bushels of seed may be obtained and sumetimes more, from tro cuttings, per imperia. acre.
"The nutritious properties of the B. Schraderii are of a very high order, but being a broad leaved, strong strawed, corn-hie grass, it presents a coarse appearance, both in grass and hay; this, however, is more apparent than real, as it is actually succulent as well is tender ; and hence it is greedily deroured by horses, cattle. and sheep, whether it be in a green or dried state, all of rhich animals thrive and fatten or dricd state, all of rhich animals thrive and fatten
upon it a remarkable manner. According to tho ypon it in a remarkable manner. According to tho French report, pigs eat it with avidhy cren when
mado into hay, in which form cattle and horses are said to prefer it to fresh cat rye-prass. For mileh cows it has been found to be higbly suitable in increasing the quantity and quality of their milk, as rell as improving the butter and cheese made there from.
B. Schraderii, cut green and dried, was foand by analysis to contain :-


The grass when cut perfectly ripe and dried, differ ell when analgsed but little from the abore, excep that it contained a less amount of fatty manter, and nearly half less of nitrogenous compounds, and more cellular tissuc. The aslies contained chlorine, limo. potash, and phosploric acid.
The B. Schraderii is by no means a permanent grass, the plants endaring generally not more than two or three years; but it is easily perpetuated for any leagth of time by division and transplanting, snc will, in some situations, sufficiently renew itself with-
out artidcinl aid from shaken out seeds, of which it produces greal abundance. Erom its rapid and luxuriant growth it is not nuapted ror sowing with the ordinary grass seeds, and it is said to bo verg effeeordinary grass seeda, and it is said to be very effee-
tual in beeping down weeds, whethor soma by itself tual in keeping down
The noils beat guited to this grass are such as are rich nind dry ; on ret clays, it does not succeed at all. In poor sands, after well manuring, it has produced astonisjing cropa both in France and Australia. Having a Iargo clustre of amall roots, and an ertensive surface of stems and leaves, it derives a very large portion of its nourishment from the atmosphere, and is not considered to be particularly exhausting to the soil, from the mere surface of which it obtains its inorganic food.
Whelher this grass could be relicd on so far north as Canada, mag, in the absence of experience, be considered doubtful. Trials carefully conducted Would soon decide this important point. In northern and central France, where the winters are often
severe, with a dry atmosphere similar to what re severe, with a dry atmosphere similar to what we
have in Canada, the plant is seldom injured; but in this moist climate of Scotland the old plants were mostly killed during the unusual degree of cold of the winters of $1861-62$; but those from autumn sown seeds wero not sensibly injured. In our newer settlements, wheru snfficient protection is yet afforded settlements, whero sumeient protection is yet aftorded
by the forest, and snow continues on the ground till by the forest, and snow continues on the ground till
spring has fairly set in ; in other words where winter spring has fairly set in ; in other Words where winter
wheat is not endangered, the introduction of this Wheat is not endangered, the introuluction of this
species of Brom would probab ly succect. Is the increaso of live slock is now universaliy acknowsledged to be among the principal means of improring our agricnltare, a condition implying an increased amount of calllo food, no means should be left untried for accurately testing the sutabilus and adiaptation of new forage plants to our climate and ic quirements.

## Labour Saving Machines.

Numberless as are the machines in use upon our farms, there are yet heary operations for which no substitutes for humen hands have bren found out, and the figld for invention as applied to agricultural practices has much in it that is still unworked, ant that callis for the aid of machinery. Among these want aro contrivances for loading lay upon the rack when in the field, for loading, unloading and spreading manure, (doing array with the very hard work of shoveling,) for the more perfect pulverization of the soil
before seeding, for the better raking of hay with a berore seeding, for the better raking of hay with a
horse, for the digging and gathering of potatoes, and numerous other occupations Some of these it is true have been attempted, but are, so far as we are acquainted, rather failures than successes, and show that they need to be improred upon to become of
much utity. That they will ultimately succeed we much utility. That they will ultimately succeed we have no doubt.
The remark lias ofen been made that with the grea: change which has been brouglat about in the farmer's work by the introlluction of machinery, it would seem that they woild have more leizare time than they do, but, on the contrary, they nppear as busy
and as hard at work at ecer. This, we think, is only and as hard at work at ever. This, we think, is only
in part true. All farmers have enough to do the year round if they are so disposed, for many of our farms are comparatively nerr, and there is much to do to clear them up, properly fence them, builh good buildings and keep them in order. But aside from this, farmers do have more leisure and get aloug with much less hard work than formerly. This leisure is being turned to good account, we judge. for farmers are better informed, read more and think more than before the days of machunery. The work of the
inventor has not only blessed the farmer by renderinventor has not only blessed the farmer by renderopportanity to store his mind with useful knourledge, thereby taking a higher rank in the scale of humanity. And the next gencration will continue to reap the benefits of this introduction of machinery to a still greater degreo than the present.- yraine Furmer.

## Utility of Surface Drains

Demme a recent ride into the country immediately after the copious rains of 3 lay 27 and 28 , we were forcibly impressed with the great valuc of surface drains, and were more strongly convinced of the truth of the views of Mr Ilarris, as given in our issue
of two weeks ago. It is almost a wouder that this of two weeks ago. It is almost a wouder that this surface drains have not been emploged to carry off that superfuous water which has beon allowed to eraporate. We lave noticed that upon much land Where the water stands in considerable quantities after a heary rain, farmers are obliged to wait a long in a state of readiness for working, when by a little labour in opening a small drain upon the surface the

Fater could be carriced of In a fer hours, and the process of drying greatly bastened. Agaln, the dintulso which Mr. Harris speaks of, viz: "Lidal.ity of washng, and thereby injuring land by the loss of its moat valuable portion, can, if the location and direction bo completely opercome in almost every instance. in a ride of twenty miles pe did not seo a aingle instance of water standing in pools upon the surface that could not have been carried off by small open drains, and mado to flow over permament grass, thereby acting beneacially in two ways, preparing the plougbed land to bo rorked and irrigating the grass fand with the finest and best part of the soil washed from tho fleld above. We are satisficd great beneats would rosult rom a well considered system of surface drains and are inelined to beliere with Mr. Harris, that "millions United States fornually lest by the farmors of the respect. We hope to see the aubject practically conrespect. We hope to see the subject practically con-
sidered and put in uso by our farmers in all situaions where it con be productive of the benefits above stated.-NLaine Farmer.

## Ameliorating Effects of Cultivation,

Thene is scarcely a regctublo we at present employ that can bo found groring naturally. Buffon asserts that our wheat is a tactitious production, raised to its present coramion by the art of ayriculture. Rice, - Larley, or ercorion nollo in of the carth; but havo been :itered liy the industry of mankind, from plants not now resembling them in such a degree as to enablo us to recognize their selations, The acrid and disagrecable Apium grarcolus has been transformed into the delicious celery; and the Colewort, a plant of scanty leavea, not weinging altogether half an ounco, bas been improved into a cabbago whose leares alone bear mauy pounds-or into a caulifower of considerablo dimencinns. bring only the embryo of a fow buds, which in their natural state would not have weighed as many grains. The potato, again. whose introduction has added millions to onr population, derives its origin rom a small and bitter root which grows wild in bin and Noninvilen If any of our readers are sheptical on the subject of such melamorphoses, let
them visit the fuiry bowers of luorticalture, and they will perceise that the magic wand has not onls conrerted the tough coriaceons covering of the almond into the soft and melting flesh of the peach but that by her spells the sour sloc has ripened into the delicious plum, and the austere crab of our woods into the golden pippin. That this arain bas been made to sport in almost ondless variely, emulating in beauto form and color. in exuberance of fertility and ichness of flavor, the productions of warmer region and more proputious climatos.-Dr. Parr on Diet.

Cuebne Factuny at Mitcuelin-The Midchell Adcucate understunds that "tro gentiemen of large means and long and practical experience in the business, have enterod into the necessary arrangements for the eatablishment of a Cbecse factory in the vicinity of Mitchell. The land has becn already rented, and the establishment is expected to be in worhing order immediately nfter harvest." We hope that the enterprise will prosper, and wo have scarcelya doubt but it wild prove remanerative to the enterprising gentlemen.
Facte boit Maples Sap-Sap runs best on a warm day following a frosty night. The best scason is usually when the ground is frozen deepest. Sap ruas faster when the snow is dug away from the trees. Sap will rease to flow when the wind is to the south. We should like for some of our vegetable physiologists to explain this fact. Sap will How beter before a rain-storm than a snow-storm. Sap is sweeter from old than young trees ; from those that hare been repeatedly tapped, than from those that hare never been.-Maine Farmer.
Professon Vorickfr on Wood Asues.-At a recent mecting of the Royal Agricultural Society of England, in reply to the enquiry of a member respecting tho fertilizing properties of wood ashes, Dr. Vocleker is reported to have said that "rood ashes contained many other good thingsin addition to potash. Amongst these were phosplate of lime in considerable quantities, carbonate of lime, and sulphate of lime. Indeed, the the application of riood ashes might be said to amount to a dressing of potash, a dressing of bones, a dress-
ing of gypsum, and a dressing of marl ; and this must surely account for the greater beneet which rood aslics produced in comparison witc potash alone. He would rothor buy wood ashen, therefore than potash, for potash contained only one of these constituents. although the ashes might be washed, they still formed silica of potash."

## Storic departurnt.

## Lincolnshire Sheep.

In a recent address before the Cirencestur Farmari Club, Mr J. A. Clarke, of Lung Suttun spuhe of this famous breed of saeep as follows . - Tho uld Lincolnn, auch as my grandfather knew were ungain ly animale, with carcases long and thin, razor bacha, lega thin and rough, bones large, pelts thick, wad though attaining a great weight (mainly 'live reight; I glould fancyl) trere rers deliberate in laging on leah-in fact, they were 'regular brutes,' as if they had beea bred by some Anti-Bakervell, if you can fracy auch a character with a perrerse love of clum. slness and slow feeding, snd selected gencration anter generation, not with an eyo for early mutton, but Fith a view to guperphosphate and sheepskin, de reloping the skeleton, and the hide! Their chief merit whs their fleece, weighing 8 lbs. to 16 lbs., with a staple 10 to 18 inches in lengit. This long woul made the breed profitable to the lowland graziers, although covering such an unthrify coarse-grained carcase of mutton. Now, however, Mr. Clarke obserred, tho Lincolns were vastly improred, not only with regard to size, but also as to hool; and ho went on to say-A furmer, at Liverington, near Wisbeach, grazed 210 Lincoln hoggets and is Linculn shearlings; and the 259 fleeces weighted 117 tuds, ur an arerage of 12i 1 lb . perfleece. Mr. Ptowright, near Spalding, whose fat sheep I have already referred to as attaining such great weights of mutton. had in that same year the following 'tod bill'-of hogg and Hether sheep, 690 ' threes,' 376 ' twos.' and 2'ones,' or 2624 fleeces, being about 11 lb . per ffeece, and many of them had been sliorn in spring off shecp sold to the butcher. Probably, in ordinary breeding oncks, where the proportion of hogg wool is ahout one-third of the whole, the deeces average a $\$$ to 9 lb . cach. As to the individual animal, the weight of wool is sometimes Fery great. In $180 ?$ a two-she.r Lincoln ram, clipped by Mr. Bond, of Parborough, yielded a fleece or 23 lib. ; and though heavy theces are too commonly coarse in quality, this was as remarkable for length and fiaeness of staple as fur actual weight. My father's prize lamb at the Linculn logal Jeeting of 1854 had rlipped 513 lb . of wool in three cears, an average of $17 f 1 \mathrm{~b}$. per Hece. Lincoln wool s in great request, from its peculiar properties of ength, strength, and lustre and brightness. It is not requisite that the fibre should be rery long-indeed, t noed not exceed somo six inches in length-to como under the designation of lastre wool ; but the longer and stronger it is, proriding it le bright, and not coarse, the more faluable it is. At Battersca show, my father and myself exbibited a hogget lieeco on the back of the sheep, the length of staple of which averaged about 17 inches; the age was about 16 months. I hare a lock or staple of wool from a cwe bogget whish is 24 inches, and another from a ewe, but of more than two years' grunth, which is no less than 40 inches in length. Fou are anare that trool is classed by manufacturers in two general dirisions. These are clothing wools and combing wools. The short wools for the most part helons to the clothing, and the long wools to the combing quality. The short wools are pre-eminent for their felting property -that is, the tendency of the fibres to adhere togethcr, oring to the minute serrations (sometimes orer ove in a lineal inch.) When the wool has been arded, spun, and woren into woollen cloth, and is then put under the strokes of the fulling mill, this process of felting takes place. But long wool, having elting property in ans upon its fibres, poss sses the ielting property in a minor degree, and it is called combing wool, because one of the first operations in
manufacturing stuff and wursted goods irom it is to manufacturing stuff and wursted goods irom it is to
pass the wool through heated iron combs, thes rendering the fibres smooth, and iron combs, thes ren or cottor, without, however, losing in the natural ustre. One main use for which our lustre wool is sought afler is in the mannfacture of 'Alpacas,' "Coburgs," and rarious fabrics composed ol mixtures of cotton and wool; the gloss giren by the wool is so admired as to hare become a rage and fashion in materials for ioth genlleman's paletots and ladies dresses; and the rearcr likes the rool because the microscopic saw-like tecth of the fibres take
bold of the cotton in the process of reaving, and bind both together, making a sound and serviceable cloth.
The product in thread or cloth from a fleceo of wool is something astonishing. At Norwich, many
gears since, 39,200 yards, or 22$\}$ miles of thread, were spun from a single pound of $w$ vol, and sixy years ago a Mass Ives, at Spalding. span 168.000 yards. or about 951 miltes of troollica thread froma pound of wool, of a lincoln enc. Inut this seems nothing to the multiplication a flece now undergoes at liralford. From the manufacturer wiongenerally buys ms 'clip.' I obtained this bit of information. A : 0 13. Lincoln deeco, used as an almixturo with cotton in the finest Alpaca f.abrics, sumices for uprards of In the anest Alpaca f.abrics, sumices for upnards of
twelre 'pieces. each prece of 42 sards in lengith, it twelre 'pieces. each phece of 42 arils in lengith, it might probably bo cxicnded to 6 pieces, or a total
length of $\mathrm{G72}$ yards, 3 feet in breadth. At ?s. a yard. length of 672 yards, 3 fect in breadth. At 3 s . a yard.
the sum realized would be 2100 ; nul 1 suppose (tbough Inm not much of a dressmaker) that the crinolines of seventy or eighty ladies are covered Fith products from a single flecece of wool. When we think of the hundreds of thousands of sheeep clipped overy season, it is a mostery whetu all the dresses cangoto! I beliure that ia the prosinutivn of this raluable lustre woul. Linculn theep have the proeeminence both in weight and quality. Next an point of merit come the deeces of the Coisn ulda and Lunce: ters, and the Kent and homucy Marsh "oul hird.

## The Horse.

Tex common horse. jnetly considered as the noblest of quadrapeds. has lung been bred an most parts of the earth, tor various parpuess ol war. houling, parade, the sadule, dranath, it.. The ma mat and pliyst cal qualities of the horse, hare fon whais among the
brates. And among the varions breds there are brates. And ansong the varions breds there are
none mo exhibit as much miedugence. quathe ss of

 and extricatiag himseff frum thi in when whouttered, as the thorough-bred. The ability to be ricions or otherwise, may be clased among the mural guahties of a horse, so also hunes.g treachery, ra chathess etc. And whether any, or all of these quinities are men with whom he assoctates. .hyaralis in h men with whom he asoctates. is universally recognized as the Bestof this prenity is unirersally reconnmzed as tbe vest on this prently and fineness of texture in bone, more tense and clastic in muscle, his frame, and consiructon mane cherasmore compact. A thorundi-bred is de-wended hiruagh a direct line of the Enghish races. fuvil the Ar.ab.an. the Barb, and Persian. The linglish rate hore is narivalled throughout the world for symmery of form, swiftness of progression. and duribulty under exertion. llaving these qualities, there are other we prize in a carriage horse. or a hurse of all work. He is lacking in strength which massive weight gives, and the practacal busames look deared an a suadster, no less than that we value $3 n$ a hurse for the plourh or dras. Br blending the bluot of the thorough breil with other breteds we obtain an elegance of style and strength-a certain pride of action and beauty of fit ness tor certain kinds of labour. In breedhyg it is a general law that the frpprag mitcont is much of more of the qual.ties o. the sure than of the dism therefore to derelop and refine the food gualities of the dam in the offspring, the mure bluod the sire has the better. The desirable qualities of a breeding mare are, beauty of form, gentle disposition, and slee, together with capacity of barrel and pelvis, also freedom from all surts of blemishes and defecin Were moro attention paid to the sellebivil of sire and dam we should see a more conmensur.te impruse ment in our horses, and to affect this result our neri cultural societses ought to encourage the use of thorough-bred stallions.-Rural American.

## Points in Cattle,

Tant eminent agriculturist, Mr. Geo. Hope of Fentonbarns, recently read a most able and interesting paper on "Stock Feeding" before the Scottish Far mers' Club. Respecting the "points" of cattle Mr. Hope is reported to hare saill :-

A perfect breeding or feeding animal should have a the expression of countenance-1 could point it out, but it is diffcult to put upon paper. It should be mild, serene, and expressire : slonid be fine in the bone, with clean muzzle. a tail likio a rat's. and not owe-necked; short on the legs. He should hare a mall well-put-on bead, prominent cye, a skin not too thick nor too thin; be should be corered with fine allky hair-to the touc'l like a lads's gloen ; hn should bare a good belly to hold his meat: he should be straight-backed, well ribhed-up, and weil ribbed bome; his hook boaes should not be too wide apart. A wide hooked animal, especially a corv after calvA wide hooted animal, especially a cow after calving, always has a vacancy betwrent tho honk and the taj, and a want of the most valuable part of the car-
cate. I detest to see hooks too wido anart; thep
should correspond with the oiber proportions of the wody. A lerel line should ran frum the hook to the tail. Ho should bo well set in at the tail, free o patchnees there and all over, with deep thighs, that the butcher may get his second round and prominen brisket deep in the forerib. His outline ought to bo such that, itia tape is strotchend from the fore-shoulder oo the thigh, and from the slomilor along tho back to the extremity there, the line shont" liey close, with no meancies; and without a vond, the line should all from the booh to the tail. From the slivuldur-blade o the head eliould to well thled up as lie say, good in the neek vein. Thick legs, thek tails, aud deep necks, with thick skin and bristy hair, always point oo sluggits fecders. In cold weatuer in ile noonsh of May, the old silky coat of the straw yard bullock is of great advantage. If we could get the qualities and proportions l have apectifen in dinmals, " would no ou dificult to mathe thein fat. It would be dificul only to mahe them lean when once in cuntition. A high-standing, want of riblong up and ribbing home, wh the tuckedrap thank, always denoto $n$ worthless teeder. 2 ou hatist all hante obsericd han difficult i she !atig such cathe intu a same fur hilling. It wil take a deal of cake and corn to make them ripe. great many can bever be made mose than fresh: it is
only a waste of time and money to keep them on."

Hh, bable Stuct-Mbeeming. - We find the followng sugisestise remarhs in a recent issuc of Bells Mosseryer -- A correspondent, cumplainiag of the rejuent trouble which uriners of high bred stock Hus is at that shis dimeulty seldom occurs in ordiary dary culls, or in those with tiro or three crosses ol pure blood :" •In assuming shat ordinary d.tiry stuck, or stuck consisting of cows with two or hree crosses of pure blood, may be, more safely rusted for regularity of brecding than high bred . och, dues unr currespondent, in the expression hiey ural stoch, exclude or suppose the idea of in-and in admixtures of blood: If he supposes it, the question arises whether such admixtures are favourable or hostile to fertility, and if the nnswer be that they are hosti?e, a reason is at once found for the superior ruitha. iess of common or comparitively common tock-assuming, of course, their freedom from the ault charged against the others. But if the iden of n-and-in breeding is excluded, that is, if. 1,5 high bred stuch the simply means stock bred from the union of fumilies carefully cultirated, though out cultirated with reference to intermingled aftinities, it may propery be a sulbject of inquiry whether the position Which he assumes can be surported by facts. Is it a nater of fact that common cows, or cummon corrs emerging from commonness into gentility, are more dspasou to regularity in producing offipring than corss of establushed respectability of lineage? There is another point, too, which would require to be consdered, and very carefully considered, in estimating the several conditions involved. At this point we hare indirectly hinted. On the assumption that exessire interminglangs of afinaties are adverse to prolfichess, it is possible that a cow with only two or three crosses of pure and high blood (those crosses being durived from sources remarhablo for infertility) may mherit a propensity to non-fecuna.:y as surely as a cow whose pedigree, similarly characterized, caclues to remoter eras. So that it would depend, nut so much upon the length of timu during which the famuly of an animal bad been cultivated, not, in other words, so much upon the number of her crosscs, as upon the specific kind of elements cultifated. Though theso observa: ions establish no conclusion, nor arv intended to istablishany, they may perhaps be worth thinking about, and uar correspondent will be pleased to accept them as a reply to his communiation."

## Tettrinary 刃lepartment.

## The Operation of Tracheaotomy.

Tracuesotoxy is the term used to describe an operation, of which the object is to admit air into the ungs. It consists in making an artifcial opening into the windpipe (trachea) and is one which is often requited in vetermary practice. It is, perbaps, the mosi humane recourse of ceterinary surgery, giving instantancous relief, and thereby allowing an animal to inhalu a sufficient sumply of diluted oxygen to maintain life. strangles, induenza, and other diseased conditions of the head of the windpipe (larynx) or enlargements or tumours in that region, by therr presence, dimaish the calibre of the laryax to such an extent that the quantity of air essential
for the maintename of lifu cannot bo taken in. In such araso, the only chance oi sariug han is lis making an arincial opening into tho Findpipo (trachenotomy as it is technically called.)


To the practitioner who is conversant with the anatomy of the parts to be cut tbrough, the operation although looking formidable to tho casual observer, is ensily perfurmed. The part usually chosen for the operat.on is about the upper third of the windpipe, but some amment practitoners prefer the opening lower down in incision shonla be made through the shan, about two inches in length, exposing the museles of the inferior part of the neck; then with the finger os sealpel separate tro long thin muscles which are merely united by thin rolluiar issue, and the windpipe is exposed, which is known by its rrite arpearanco nnd hard to the touch, as it is composed of a series of incomplute cartilaginous ring-in the most of cases, a longitudinal incision will suffice. In other cases, howerer, it is necessary to excise a circular piece from the cartilages and in so doing, it is advisable to remove the lower half of one ring, and the upper half of the one immediately below it. Care must be taken that tho excised part is not drawn into the rinupipe by the spasmodic breathing, as such on occurrenco would speedily produce death. A tube should be afterwards inserted and secured around the neck by means of a tape or strap. The tube shown in the accompanying illus-

tration ia the one generally used by vetcrinarians, but it does not alwass happen that the practitioner bas it at his command. The large cut shows the position in which the instrument is inserted in the neck of the animal. If no tube can be had, an opening may bo - made liy excising a picco of cartilage as already described, and a pieco of twine or wire pass. cd through the skin on cach side of the opening and brought over the neck. By this means the air is allowed to pass in, and temporary rolief is afforded.Generally, the operation is only resorted to with the view of affording temporary relief. In cases of roaring in horses, where from the great wasting of the muscles of the laryox, the animal is perfectly useless, an artificial opening into the windpipe may render him scrviceable for years.
The above illustration is taken from a case of enlargment of the parotid glands, occurring in a two sear old colt, at present under treatment at the Veterinary lnfirmary sisuated in Temperance atreot, Toronto. Lp to the present time the animal is progressing favourably

## Comadian datural zitistory.

## The Raven.

(Corves carnicorus, Bartram.)
Turs is tho largest and most powerful species of the ruidoc or crow family. It has every member fully and atrongly dercloped, and when in fuil ghamage, is $\checkmark$ beautifal and almost noble-looking bird. Ther is, homnrer, a suspicious mariness about the expression
the rock iteclfis preferred. The Raven is omnivorons but by preference, carnivorous, delighting in the fiesh of emall animils of every kind, as trell as cggs, young birds, carrion, dead fish, mollusks, crustaceans, and insects. Dr. Richardson speaking of its habits in the fur countries eays, "The experienced native, when he sees from afar a flock of Ravens wheeling in small circles, knors that a parts of his countrymen, well provided wih renison, are encamped on the spot, or that a band of wolves are preying ou the carcass of some of the larger quadrupeds, and pushes on
exccution before the morniced-looking dog detected the imposit on that bad ween practised upon him, and rushed back again."
The laven is celebrated for its longevity, some in. stances being on record where the bird bas attained the age of one hundred years.

## Wild Sheep of Thibet

Leaving Jadung, we struck of in a northerly direction, still following the course of the small river aivng whose sides twe had ascended into Thibet, and arrired at its source-a dark, copperish-looking pool of abont forty square gards in extent, bituated in a complete cul de sac of halls. The water in the pool was intensely colli, and sermed of great depth.
 ing of the rhall, and hoons of hurrel and "Ovis ammon," some of them mowt perfect in fortal and shape. The Ovis ammon is a giganitic specics of wild sheep. peculiar to Thibet, but no: numerois. They are seldom met with lower ha, fiffeen thousand feet. their usual habitat being at a much higher elovation. We were nut forturate enuseh whist hunting in thes direction to procure a specimea of these extraordiaary animala und only saw a fow atan imatense dis. tane. on mu opro plain, whero there was not the least possible chauce of being able to get near them, bat we fell in with others on another uccasion. The native name for them is " uean" It hetght they are betwern fourtern and finera hatus the female being thirteen hands high. Thes are, of all wild animals, the mast sliy and keen of sight. and possess gnat powers of smell. The pursuit or them is attended with enore dificulty than dat of any other garae. On being disturbed they go offat a tremendous speed, gradually subsiding inco a walk, but not stopping for miles until quite gut of sight. They are supposed to be identical ritn the Siberinn "argall" and the - bighosa' or Rocky Mountain sbeep in California In colour they are of a reddish grey, with patctea of white about the neck and breast. Their coats are short, thichly set, and brittle like the burrel ; legs lung and slender, with I rge knee-joints. Their horne ace of great size, and curicd hike a rame; when full g. own they arerage 1 sin . to 2 in . in circumfereace at the base, and fiom 44 in . to 54 in . roand the carre Those of the female are considerably less in aize being only 10 in . or 1 izn . in circumterence, and from 15 in .102 tin . in length. The bunchour or vild yak the. kiang or rild borse, were not to be found in the quarter we wore hunting in at this time; but whed we were proceeding in a north-cas.erly course, en denvouring to cross orer a pass that bad neverbeer a'tempted by Europeans, before we passed througl the district in which they are met with.
The "Ovis polli," another variety of the wild shrep species, supposed to be even larger than the avis ammon, is saill to exist i., the extreme narihern parts of Thibet, nat is also found in Bokbara, on the plerated plain of Pamir. castrard of Bokbara. Where elerated plain of Pamir. eastrard of ${ }^{\text {B }}$ is cakbara. Where
is Fied.

## Peculiar Fish.

"We bave," says Sir Charles Bell, a carions instance of the prec.sion of the ege and of the adaption of muscular action, in the beaked chatodon, 2 fob which inhabits the Indian rivers, and lives on the smaller aquatic fies. Whea it observes one alighted upop a swig. or tying over (for it can shoat theng on the ringl. it darts a drop of water with so.steady an aim as to bring the fy down into the water, when it fulls an easy pres. It will hit a fyy at the distance of from three to six fect. Another fish of the game order, the zeus, has the power of forming its month into a tube, and squirting at ates, so as to encumber their wings, and bring them to the sarface of the Frater. In theso instances, a difficuly will readily accur to the $r$ ader. How does the fish judge of position. since the rays of light are refracted at the sarface of the water? Does instinct enable it to do thin; or is it by experienco?"
Now, Sir Jbarles Boll was ono of the closest obserFers and tion most trustrerthy writers of his time, wo that his authority is unquestionable.

## Tilt: 끼난.

## Davis Garret's Dairy Farm.

We paid a risit recently to the aboro farm in Delaware counts, abont cight miles from Pbiladelphia. It is located in the grewt dairy section, which bas given the reputation to Philadelphia butter, abounding in fre pasturage, pure springs of cool water, and a rolling country proverbial for healthiness to man and beash This was, till recentls, a butter farm, but for special reasons, it is now a milik instead of a butter dairy ; but the management of the cows and pastures is substantially the same, the object being, in each case, to support teithout injury to the land the greaicst number of couss, and to ohtain from them the aroat- tyidid of mill:
There are rome features in Daris Garret'n system: which wi thought worthy of iecord. In order to se the longest somn in the fall for carly spring cutting, and somn corn foduer. Withont these three requisites he thinhs he cannot profitubls carry on the dairy businees for dither milk or butter. His practice for sereral sears cother mink or butcr. Wis practice for sereral years the value of orchard grass on a dairy farm, its grom ing through the scason, coming forward very carly in the spring, and by its quantity of fbrous root. rather imprncing than exhausting the land, whea fed or cut before in gets ofd, making excellent pasture and has. D. G. expressed lis opinion, while his corss on one occasion, had greatly lost condition when fed on pure timothy lay, or as he expressed to us, fould have starred to death, if he had not giren them something else They alriags thrire and do well on orchard while walking beiore te orss bashels to fall and sowing it broadcash. This larger quantity of sced to the acre than usurl, be considers important to prefent its growing into tussocks or bunches. Wie hare nerer observed finer fall pasture than his orchard grass fields presented. The usual amount of timothy and clover is also sorn with the orchard grass, wat is
latter takes entire passession after the eecond season.
On the farm of 100 acres, about 3 acres cach of rge On the fart of 106 acres, about 3 acres each of rye
and corn fodder are sown annully. The cutting of and corn Codder are sown annually. The cutting of commences about the middle of $A_{p}$ ril, some three to four weeks before time in turn out to pasture, and continues till the middle or last of May. The cows greatly relash $1 t$, and a large increase of milk immediately results. There are also trio other adrantages. long winter on dry food to fresk pasture (ad bibium) often proves a drawback to stock for tro or three weeks, till they become used to it lis giving green food in the stable, the feeding is more under control and no darsrbea, or other bad consequences follow The change is more muderate and gradual, and by the time they are turned out the system is accustom ed to the food. 2nd. The pasture fields, instead of being entirely bare, as is often seen in the first few weets of spring, get a good shart. which seems to be retained through the ecason, the grass becomes firmer and probably more nutritions. Tro full cuttings of the rye are cbtained.
The use of sown fodder commences generally im mediately after vat harvest. It is taken out to the pasture lield on a wagon or hay bed, and spread avout It makes an arreeable change of food for the cows, is eaten with asidity, and telle its tale in the with it dady tul frost, when the balance of supplice With it dady tal frost, when the balance of fodder is and fed with grains or ship-stuff, \&c. The ground and fed with grains or ship-stuff, \&c. The ground
sown with fodder is ploughed up in time to seed with rye and orchard grass. The usual amount of stock on Davis Garret's farm is thiry cows, seven horscs, and a flock of sheen. This is in addition to the fields occupied in the usual rotanon of corn, oats, wheat, and
potatoce. Without tha sir acres used as abovo de potatoes. Without the sis acres used as abovo de seribed, be thinks ualy balf thiss stoek could be pro
fitably bept. It shonld be mentioned that the bome place conthins unty to of the 100 acres, the balance being a mile off, in poor condtion, and is used to seep his dry cows on. His crop of corn last season was 400 bushels from I is than six acres. One thing mentioned in the manmement of the cows was new
to us-that after the first frost thoy were invariably to us-that after the first frost thoy were invariably
stabled at night. D. G. had found that frosty grass caten by the corrs night and mornitig tended to dry up and decrease the milk. At this soo, say the last of September, their food is always en to them in the stables, and they are only allowed the range of the pasturcs in the middle of the day. By this plan,
intead of lis cors golug dry for tbrear four monthal
to the great loss of pront, ho manages to hiep them in milk, without exception, till nearly the time of cals ing. An uninterrupled sapply of milk is the essentia thing io a milk darry, and D. Garret, ratching closoIF any hercese or cumination, and the cansa of it,
considers it moro profiablo to kucp a good lot of corse, when ouce obtained, well up to their milk, than to hare them $g 0$ diry somo thre or four months, or as is the practice with some, sell to the butcher and bus fresh cows at high pricos to keep upa certain supply At this ecason abont a peck of brewer's grains ar giren to each cow niglit and morning, which is ingirea to each cor nigat and morning, which is in-
creased to double tho quantity on the approach us creased to double tho quantity on the approacti ut
cold weather and through th, winter. Thas occicold Feather and througli th, winter. This is occa-
sionally changed or mixed with bran. midalings or sionally
ship-atuf, the whole incorporated with cuit has or ship-8luff, the whole incorporated with cht hay or
corn fodler, and moistened in large open boxes in the entries between the stables. In the corr stables we observed directly behind each cow as fle stands in the stall, an open trough, eight or ten inches wide and the eame deep, sunk in the ground, and calcula ad to receive all tho aroppings. This denosit is hovelled out daily or conducted into the barn-gard an arrangement which greatly promotes cleanliness o the cow and tho stall.
It was also remarked to us by D. G., that the slight protection given to lis pasture fields by the refuse orrn fodder uneaten, which he allows to lay all winter, was almays fondy to be a very great benefit to the earls ricorous provith if pasture the folloring spring-Iforris' Juml Adecriser

## Dairying in Cornwall, England,

As our readers are aware, Mr. X. A. Willard, the agricullural Editor of the Chica Weekly IIcrald, is at present in lingland for the parpose of reporting to the Nex Yoble Dairymen's Absociation the melhods adopted in the 'old country' for the manufacturo of cheese and butter We make the following extract frome his last commanication, which appears in the Herald of the 26th ult.

Cornwall is extensively engaged in grazing, and there sre many butter dairics. Thest prodire large guantitics of clotica cream for the marnel towns abont, and bowh butter and cream are almo wint to bow they were made, and we got up to the dairy house in time to see in part the uperation. The dairy bouse is of stone. in ronnection with the dwallingstone floor and stone benches for the milk to set, and all well ventilated and scrupulunely neat and clean The milk, at this seasun of the ye:rs, is strained in large derp pans, and put in the duiry house, where it stands from eight to ten hours, when the pans are taken out, and the mill scalded by placing the pan in an fron skillet filled with water and placed upon the range. At the botiom of the skillet there is a grate on whath the pan of malk rests. so as to kerp it from the bottum and from burning The milk is here slowly heated, until the cream begins to show a distinctly marked circle aronnd the outer edges, when it must be immediately removed. Some experience is necessary in applying the heat in bare it fuct right, otherisise the cream is spoiled. When pronerly scalded, the mill is remored to the dairy, Where it stands from twelve to twentyfour bours, according to the condation of the weather, when the cream is remored, and is in a thich, compact mass, rery much unlike ous urdinary cream. $t$ is consldered a $\mathrm{g}^{2}$ eat delicacy, and is largely used as a dressing with sugar upon pastry, pudding, and especially on gooseherry pie. As it is mado an exensive arlicle of commerceat the towns and villages, and is rea!ly a delicious article of food, I hare been particular in describing its production.

## bCTTER XAEmio.

There are no checse dairies in Cornwall, but a su perior article ot butter is prodnced. The butter is all made from the clotted crcam, by placing it in a small ahallow, wopden tub, and stirring Fith the hand or visit. quatity of cream, sufficient to make twenty pounds of batter, was placed in thotub, and butter was formed by stirring in about thirty minutes. There remained scarcel'g troo guar s of buttermilk from the mass. The butter is thea washed in sof water and placed upon a little circular board beld with the left hand and beaten untull the butermilk is all taken ont when it is salted, and set away for a fow hours, seaten over agsia and put up in moulds or down in pots. There were a number ot earthen crocks
holding from eightean to twenis ponnds, which were bolding from eightecn to twenty ponnds, which were
being aller' for partics in Londun Wateter may be said of the manner of makin; butter, it tras ot ex cellent quality, and dearned isom parues using it in the towns, that it kope for a lugg period.

## Eantry thard.

## About Eggs and other Things.

As I have never had a maid witn coull poach eggs o please my houscbolh, I think some mistrence may be pleased do know riy plan. For every egg Intended to ve poached, haro ready half a eties of beautifully erisp teast ; butter the toast. and have it lald on dish near the fire. Neanwhile, the rater boils, and nit it is popped a teaspoonful of salt; break the aicll armily on the eige of the stew-pan, nad quickly dron the contents 'nto the boilling water. Thre minutes will suflice to cook, and then carefaliy lif out each egg and place on tho lorely buttered toast Lastly,

## Add pepper to taste

Of course, cggs are liko ladics, often by their insen sible influcne anding their way into almost every thing. But I am anxious to elerato them (tho eggsi) into a more extended sphere of usefulness, and by the
aid of my Roman recipes, 1 anticipate ${ }^{\text {anding bot }}$ food for my houschold and The Furmer.
Sismal is the prospect to the beef and mutton cater if the anticipations of future soarcity ate to be relied on ! but to the uweller in rural manse or farmhouse eren where the dreadful Rinderpest has been, there are so many otber creature comforts to be had at a trilling expense and no trouble, that only hope predominates when contemplating the future.
An English lady paying us a visit some years ago Was shocked when a reveread guest one day told he "that ho and his large bouschold lired entirely on themselves." My lady friends very pious ejacnla tions instantly startled the minister into his rather confused explanation-"Oh, I beg sour pardod madam, but in Scolland we hare a babit of sajing 'we live upon ourselves when we eat our home-fed pigs, poultry, rabbits, corss, calres, horses, de. \&c.; absurdity.'
Many of the ploughmen and their wives uso expresions that made mo long ago stand as much aghagt as did my English friend; and I have often heard cren educated people say "they had for years enjoyed very bad healih," when it was erident they looked upon it as a great calamity.

About tho lirst yiars of the birth of "Good Words," all tho readers of tie cditor's charming "Reminis cences of a Highlazd larish" mugt bave been grate ful to him for proriding them rith such a monthly treat. I was greally amused by the introluction of a most tempting recipe. given, of counse, with the well-known gusto of Dr. M'Leod. I must tell it as I remember it, as 1 find my early numbers of "Good Words" hare all been given away. "How to Cook a S:oved Mea.-Place the fowl, with plenty of batter, in a pot with a close-fitting lid. After stewing slowly for some time, corer the forl completely with potatoes, skinned and cut in balres." I could nerer attempt to give a true description of the editor's appreciation of a stoved hen atter partaking of it, bat can assure my readers that, even without tho delicous lliph'and air to whet the appetite, the dish is worthy of eommendation. Tbrifty bousewives, whose suate 1 hope is legion, may thank me for teNing them that an old cock makes a delicious "stored hen." Merely vary the time of cooking according to the age and sex of the foml. This can casily be managed by carefully following tho directions given by the minbiter ol the Barong, Glasgow. It has the good senjo I donbt not, of all really great men, and 1 am confident that tho Rev. Dr Norman will ouly be pleased to know he has been useful in waye lengerer antici-pated.-A Country Minister's Wife in the Farmer (Scottish.)

## Poultry Yard.

Waene cnly one pure breed of fowl is lept, mixed Fith other varieties of pullets for laying, it is an easy matter to form a suitablo babitation for them. At a very small cost, a suffiently good and in every respect futing poultry-house can be crected. By those whom Providenco has favoured with wealth, there sect be no restriction to the ertent and gance of the building; but the very best breeds and the same number of fowls can be reared as successfully by a person of moderato means in a much more unmble structire. A wooden shed, if perfectly waterpronf, is morr adrantageous to the health of poultry
than $\boldsymbol{r}$ stone and lime house; it is less close, and afforda a freer circulation of air This, and serupulous cleanliness, are essential to the well-being of all stock. The fowls baving perfect liberty, only require a slerping habitation, and access to it for laying. By

should hare a sliding panol, whicl. in rinter, can be sbut from sunset to sunriso. The only inside fitings required are a few nests raised ofr the ground, and a moveablo perch, not more than threo feet bigh. This is best made of split trees, the bark len on to give the fowls a grm hold. The setting up of a pow try establishment is thus not a gerious expense or troublesomo matter; but in addition to tho general lising abodo there should be a silling-house. deroted en.ireIf to the sething hens. Here they will be secure from Intrusio 2 , and the greatly increased return from the clutches sot will soon pay the small oullay expended on the house. The saring of time to the poultry marager is also a consluleration. The hens are taken of their nests simultancousiy, well fed, nllowed access to sand or ashes, and in treenty minules all Rhould bo replaced on their eggs, to sll in peace till the return of another day calls for a similar ruיuline of action. The sitting-house may be flted ul with rows of nesto, Fith folding flaps in front, to confine a careless giddy hen if sbo shews any inclinations to wander, and on the gap may be marked the date of setting at tho same moment. The rearing of poultry is a very pleasant recreation; we know that our gracions sovercign, Qucen Victoria, stands irst on the nowo long and fashionable list of poultry fanciers, and in humbler quarters wo 1 , d the love of animals deeply implanted in the minds of children. To them the care of the henhorlese forms a uscfill and instructive lesson-it teaches them regularity, tidiress, ani perseverance, and while aifording a harmless amise ment as well, it may be made a self rupporting if not profitablo one It is essentially a 1 . ..e pleasure, and Whatever tends to increase nur interest in nad love of homomust bo worth cult. vating - The Jenacife in The Farmer (Scottish.)

## On Preserving Eggs.

At 2 la:e mersing of the Farmers' Institate in Nom York, a note wis received from Mr. W. M. Brown, of Indiana, inquiring whether there is any way to pack eggs so as to keep them good fir i spring unci, the winter months? Upon this question the following d.scussion took place. The name of the first speake is not given:
There are carious modes of kecping eggs, none of which are quite successful. Somerries eggs packed in water saturated with lime keep perfectly well, and fometimes they 'ion't. Some persons say ary can sep them in v... ar saturated with salt. others keep hem packed in fine dry salt : others in charen 1 dusi If packed in sand ana kept in a very cool cel...sr, they will reman through the year. They should always be packed sm: il che up. The hest way to preserve gegs is to siore them in one of li: f Nyce's I'reserva Pros.
Prof. Smith. Columbia College, said that the common way of preserving eg, in the North of Europe and whlib sppeared to be more effectual than any other mode he bad ever seen was this: The eggs are placed in a barrel, keg, carthen jar, or any other suitablo vessel, and then metted ta 'ow, only just warm enough to low, is poured in, filing the interstices. and thus hermetically sealing $t^{\prime} n$ eggs $f$. wh the air, which appears to be all that is necussary for their perfect proservation. Wien wanted for use, they are casily obtained by warming the open end of the vesel to soften the tallow
Solon Robinson.-I think lard or vil would anewer the purpose ; it would be $m$ e convenient. I heard molasses recommended, and do not see hay it ould notanswer perfectly.
Mr. Carpenter sald he had fuund no diffeuliy in pescrving iggs in tine dry salt. He packs them undwise, and about once a month reverses the erils of
the casks, or rather bex, with straigitsides, bo that a the casks, or rather box, with straigits sides, so that a
board and cloth or p per fits down and holds the contents in place when reversed
Prof. Tillman gave it as his opinion that anything which would exclude air would preserveeggs. Recent experiments in France hare dereleped the fact. that varnishiag the ehell destroys the value of tue egs or incubation.
Mr. E. Williams said he bad seen eggs perfectly preserved by packing in meal.

The Braina Fowis.-Mr Jolin S. Ives, Salem, Mass., writes us thus respecting the above named breed of fowls: "I hare kept upwards of 30 dafferrat breeds of domestic fowls, but find the Bralma to excel all others as winter layens and for the mar ket. I winter about 60 pure Brabma fowls, beep them but one year 'or nue winter :" that is, my bickens are hatched in April and kept from layiug until November; they are then forced by ligh feeding, which in continued until the next Auguat or the

ket. The Brahma is the most domestic of all brecds of fowls, they we: : not fy orer a fence fune feet high. For the market their leshis tender, juicy, and one davored. I bare procured from the same number of ortis one-third more eggs from the Brahmas, during hio winter months than rom any breed I crer hept. In this sicinity most furmers are hecping no ottier breed of foris, as they haro proved them to be far superior to any ther.'-Rural N. Forker.

## entamolagy.



The May Beetle.
A friext in Cobourg has recencly mentioned to us that his atrawberries have boen rery mach injured by a large whito grub which attacks the roots and luas destruys at once the vitality of the plants. From his description of the marauder, we have no doubt that it is the larva of the common May-beetle, or Cockchafer (Lachnosierna quercina, Knoch) which is so abundant just now. In the western part of Cobourg, and, indeed, almost all over the neighbourhoud, these beetles may be seen on any finc crening in perfect mgriada fying about the trees, the leaves of which they devour in this stage of their existence.
This insect has been long and most unfaroarably known as very destructive to regetation, both in its larval and winged state. In the former, it is commonly called the "White Grub;" it is then a soft white worm with a brownish head, and six legs. becoming when fully grown about marge as one's little finger. It is usually foand, partially curled up. dear the root of the plant on which it in feeding. Vnihe ..t inv of our destructive insects, the devastations of each individual are not confined to a siugle year, but it continues several years in the grub state and foally changes carly in the spring into a dark ches-nut-brown beetle, near'y an inch long, with rather long legs, and its breast covered with yellowish hairs. It fied about at night with a loud buzzing noise, and a a most clumsy manner, as if it had very little con rol over its morements, to the great discomfort and perturbation of nerrous persons, especially when atracted into houses, as it often is, by the light. Its period of tight is usually limited to the months of Iay and June, though it is sometimes met wath a ittle later in the season. The grubs are very commonly dug up early in the spring in gardens, in var ous stages of maturity; the plough, too, bringe many more to the light of day-it is hardly necessary, FC suppose, to tell our readers that in such cases in p should be destroyed at onco and without mercy by tread.ug under foot. The perfect insecte may be collected and pat an end to, by sbaking them from the trees they infest into a eloth spread bencath for their reception, and then throwing them into boiling water ; the specimens thus choked will bo readily caten by pigs, which in fact root up and devour mul. itudes of the grubs without waiting for any previons culinary operations. The best time to shake them from the trees is eariy in tho morning. When they be come sluggish and statiozary, their flight being conned to tho hours of darkecss.
This insect is 60 well known to all children as wel as grown persons that it is needless to give any further descripion of it. We shall merely recummend that it be relentlessly destroyed wherever met vith. Its ravages havs been recorded by many wri!ers, and at considerablo longth; those who desire filler infor mation than we have space fur, wo would refer to Hart .j' Treatisc on Injurious Insects, page 20, Fitcbs' Third Report on the Noxious Insects of New York page 60, and Mr. Walshs art:cle in the Pracucal Ehtomologist for April last, p. 10 . The last mentioned writer relates that it has proved exceedingly des.rue tive, during the 1 ist few years, to the crops of Indian corn in the States of Illinois, Miohigan, and Missouri. Ho appears inclined to attrin, nte their recent increase of consuquea dearructiveaegs to "tho introdnation

slab-sided, long-noaed, prairic-rosters, and to the passage of lasts compelling peoplo to keep the:r hoga under fnce instead of allowing them to run at large. This is rery likely to bo tho raso. hut re ehould certainly preler trying some other mode of hecping under the rarages of the beetle or its grubs, than the te-introduction of "prairic-rooter " ples; we only wish that the other grierance. tho law compelling hogs to be liept from ranning at large, wero nuiver sally in existence in Canade.
Among the natural represers of this insect, Dr. Fitch mentions tho Skink ? wo pres'me most person Fruld consiter the emplosment of this remedy in finitely " rorse than the dispase "), the domentlo cat and common barn-luor fowls. "But," be states, " of all the destroyers of theso insecte, no other animal can vie with the crow. Which frequently follows the track of the plongh to feed upout the grubs of the Bay beetle whiohare tnened up thereby."

## Caterpillars on the White Cedar.

We bave been shomn some twigs of white ccuar from Mr. Leslic's, Toronto Nurscries, that are almont completels destroged by a minute greenish caterpillar with a black head. Its molle of operation appears to be to begin at the extremity of a twig, and literally to cat its may downwards, consuming all the gicen pulpy matier of the leaves, and only spariug the haril seale-luhe shin on each side. The portious thus atached become brown or whitish, and nearly transparent when hed up to the light ; thit chavge of colour is valuable. inasmuch as it at once depredator
The name and character of the insect we cannot determine until we have followed it through i: changes to iss periect form ; jut we are inclined to suspect that it rill prove . - bolong to some minnte family of Lepidopiera, probably the Tortricide or the $Z$ ineida. many of whose mem uers mine the leaves of varions trees and shrubs $\pi$ ofen in their larva state. If any of our readers save observed this insect, and can give us any information respectiag its habi:s, sc.. We shall be very glad to hear from them ; it is quite nero to us.
As use are not yet acquain'ed with the whole natural history of this little destrojer, we cannot suggest any remedy for its ravages, except cutting off and burning all the twips that are infested by it This. we du not doubt. will prove effectual, and cer tainly cannot infict more injury upon the shrubs than the insents themselves are tying to accomplish.

## The Syiary.

## Management of the Apiary for July.

 By J. II. Thoxas.Tae madagement for this month will no: rary much from that of June, and espectally this season which las bren an uncommonly bad one for been. From all quarters, reports are coming in that beat are duing poorly. In this sect.on, stoc that wintered through well hare since been unable to obtain sufle cient hones to keep them from starving, and in many cases have left their hise to seek supplies in some o:her hive, searing their brood to perish. Other stocks lave killed of their drones, which will, of conrse, rotard swarming. The consequence is, there will be but few swarms in Junc. Op to the presen time (June 23ru,) there have been no swa ms cast in this section except from latian stoctis. Since, howeser, the whe cluver barvest has commenced, the weather lias been farourable, and the condition of the less is greatly improced; but at the best, swarm ing will be late. We speak of this and other sections from which we have heard. If hoaey boxes have not been put on, they should be at once. As soon as they are filled, and nearly capped, they should be removed. Where moveable comb hives are used art.ficial swarming may be commenced at once where stocks are s rong. We have already made some swarms. For directions how to make artificial swarms sce "Camadian Bee-Keepers' Guide." As swr rming will bo late, it would be well to put second swarms together, and all third and fourth swarms to gether. Let it bo remembered that success in Canada depends mach ujon keeping strong stocks. It is quite enough for the bee-keeper to donble his stocks. Where nor bablo comb hive aro used and natutal aporming

a hive, the frames should bo remored and examined, If there is any melination to build crooked it mas ther be corrected, and there often will bo in lires that are not properly constructed, $i$. $e$, not ecientiacally tade. It may not bo out of place to remark here that moreablo comb lives are otten brought into disrepute by partics purchasing from thoso persons who matie hives to sell, and get do not understand what a live should be. Those who are entirely ignorant of the pature and habits of the bee ore pume unft to make moveable comb bives, which reguire to be very exact, and the measurements scieatileally correct. Others, again, who obtala hives from us. and fancy that some alteration in the hive would be an improvement, carry it out, and fail of sitcess, their tancied improrcment actunlls maling the hive worthess. The result is that move able comb lifes tre condemned. We know of certain persons who, thinking the frames are too near together, bive ordereit their hires to be made "ith frames une mach apart, every live or that description is worth no more than a common box. Our adrice is to all. use movrable comblives of some description, fut be bure that goiz get those that are correcily mate, and then in making kerp the measurements edact, allowing hose who unilerstand the nature and habits of the bee to bo the judges as to bow a bive whould be constructid. Commence a general warfare on millers and millec's grubs ;dishes of milk or smeetened water, set out at night. will destroy many of them. The bottom board of my hire may be dropped occasionally. and the grubs destrojed. Uutside rards of comb. Gilled whit honey, may be removed, and placed in a cool, dark box, and preserved for fluture use. Thes mar be given to stocks that are fuund defictent in honey at the close of the hon'y harvest, or taken for table use when not required for feeding.

Italian Bees.

worker.

mone.
queen.

Wre present herewith vary accurate cuts of the Pure Italian or Gold Coloured Bees, now so much in request among apiarians. Italian Queens vary in colour, being sometimes blacis or brown, but it is considered tery desirable to get the light orgoldcoloused stock, as in regard to these, colour is a guarantee of purits. The black or brown queens may be pure, but the gold or light-coloured ones are alvays pure.

The good qualities of Italian bees bave been repeatedly mentioned in our col mas, jit it may not be amiss briefly to refer to them again in connection with the aboro wood cuts. Ther are more hardy, more prolific, less apt to sting, and more indnstrious tban the cummon kind. Beside these excellencies, tho colonies swarm sarher, and mure frequentl; These points of superiority have been well-estalh lished, and are now regarded as settled characteristics of the Italian bee.
It is easy to Italianize a common stock, provided your bees are kept in a moveablo comb-hive. Eigbt days before introducing an Italian queen, eramine sour stock and take array the queen. In four or five dass cut out all royal cells, of which the bees will have commenced a number, on the cighth day examine again, and if any other quecs cells are started cut them out. Now take tho Italian quecn, puther in a glass tumbler witt four or five of the bees whlch are always sent with her, tie a piece of wire-cloth orer the cumbler, and turn the tumbler orer on the top of the frames where the bees can get to ber, pat on the cover of the hive, and leave her for thirty-six hours. The bees will feed ber through the wire cloth, and at the end of that time will receive her, and jou may let her loose among them, putting a fow dropa of honey on ber as she runs ont of the tumbler. An impregaated Italian queca will never lay but pure Italian I:ggs.
By refercure to our advertining columes, it wil' be eren that Jfessrs. Thomas, of Brooklin, C. W., will shurtly bo prepared to fill orders for these bees:

## (

Notes of a Tour through 'eel, York, Sim-
coe, and Wellngton.

## To the Eibior oj Tus Cavapa fabmen:

Sth,-Haring taken a , tul for a few dars througha large part of l'eel, and a little of Yurk. Simcoe, and Wellington. i gend you a fer remartis, as the reamb of oberrations, that may be of interest to some of sour uumerous readers.
At Weston, I epent a few hours with Mr. Dennis, of Battonwood, and had my attention drawn to gowe skamp land. recentiy reclaimed by his son. Tl. - result, en far, has been very unsatisfuctory, as no kinds of crop bas come to full perfection. The land is low and fat, and bat a few feet abore the bed of the Ilumber. It lass been urained, though, perhaps, not aumiciently deep, as the peat appears to beof considerahle thickness, and approachics rery nearly to what is designated in the Old Country, a bog. Land of this description cannot be made to produce proftably any of the ordinary farm crups, rithont, alter thorongh drainag", a liberal dressing of lime; and this should be done in the form of marl, the clay of which is necessary to give adhesireness to the soil. Lime, applied in a caustic state, would becaccedingly beneficial in accelerating the decomposition of regetable matter, and ncutralizing idjurious ncids, which always, more or lese, obtain in this description of land. Mr. Henry Deanis has erected a dax-mill on tbis property, worked by water power, and it will doubtless prove a raluable acquisition to the vicinity.
Flax culture is becoming established in some parts of this district, and promises to supply a valuable alternating crop in the routine of the farm. I lieard several complaints of the dirty state of the fax seed imported by Government this suason; the parties fearing that new kinds of weeds would thereby be introduced into the country. Cndonbtedly, this seed requires to be re-cleaned, before sowing it and the latenes of ite arrical rendersd that operation someThat dificult. It is not generally known here that Russian flax seed, when exported, is seldom, if erer, well cleaned; - und this is the case with wheat and other grain from that coun :- as I was assured, when last in England, by the most repuctable feed merchants of Mark Lanc. The fax in question, however, may be depended on as genuine liga seed, and. if the present season prove at all propitious. it will, rith proper care, furnish the country next gear with an abliadance of seed flax of the most valuable description.
I spent an agreeable day or two with $J P$ De la Haye, Esq., of Clairville, who owns a valuable and ex'resive property here, consisting of sume five hundred acres. The soil of this township (Gore of Toronto) is uniformly good, the surfare apparenty very level, yet in most places, like the rich and adjoining Cownship of Chinguacousy, with portions of Toroato and Albion, sufficiently undulating as readily to admit of good drainage-an object of paramount importance. Througbout this lerel district, the wheat has sofiered severely, from want of a sufficient covering of s.10w, which came on late, after preceding severe frosts. and went off too early in spring, when probably the greater portion of mischicf was done. Large breadths have been ploughed up and sown to spring grain. In travelling orer any considerable area of country in the spring, it is interesting and suggestive to observe the more obvious physical conditions that affect the health and appearance of winter wheat. These conditions are s dry and well tilled soil, sheltered from tho cold, sprecping winds from north and Fest, by leaving a sufficient amount of the native Torest. Mr. De la Haje pointed. out a small feld of Wheat thus protected, that had a loxuriant appearance, fhile all argund, the greater part of the fields
that were more or leasexposed, looked comparatively Gare. This indiscriminale distribution of the fered That is unbappily so common in many of our oldes magnilute, gradually becoming an ers much lons er, the clime 3 of this region rill increaso in sererity, and the raising of the moro valuable kinds of Finter wheat, for which, only a ifo jears ago, Upper Canada was so celebriled, will hare to be, as is the caso already in some localitics, wholly nbandoned. In nol $n$ few placer, tho study and application or the principles of forestry, that is tho correct manner of principles of forestry, that is tho correct manner of
planting and grouping trees for sholler, ornament, plantiag and grouping trees for sholter, ornament,
and economicrit uses, must engage the serious nttention of the next genemtion of owners and occuplers of land. What will be lost in comforl, beauty. and utility, ifthese precautions should unhappily continue unleeded, nud the milolesnie destruction of tho forces perserered in. it is imposeible to sas. The spirit of the beauthfleng,

## "Tooiman frato that trm"

is as npplicable to the arts and results of indastry and the comforts of a people, as it is to poctry and the birturesque by carnest and timely attenton to therse maters, no part of the north temperato zone would be in npperance more beautifut, and the rat iety und ceonom': value of trees greater, than the present getlled dastricts of British $\Delta$ merica.
In cases of winter whent looking thin and weakly in the spring, I would sugecst a siuplo treatment commonly practiced in the old Country, under simp lar circumstances, with manifest adrantage. It con sists in giving the surfuce a sballow harrowing, as eonu as the land is suticicatly dry to bear a horas and immediately applying the roller by way of nalahing. This operation pulverizes the hard surface, fills in the cracks, and opens up the pores of the surface soil to the injportant action of wimospberic air, so necrssary at this juncture to impart increased ritality to the action of the young and feeblo plant, by enabling it to obtain food more readily, both from the soil and nir. Any old short tine harrow will answer the purpose; comparatirely few plants will be absolutely torn up, if the work be performed rith proper care. and the subsequent operation of rolling will im part the necessary consistency to the kuriace. The wheat plant is extremely tenacious of life, so that harrowing with judgment actually destrojs but few plants, while it imparts an impetus to what remain po as to enablo thetn to grow freely, extend their roots, and thicken. I tave spoken to several farmers in Canala who came from the old country, that have repeatedly tried this practice here, with, in all cases, more or less success.
I am indebted to the kindness of John Yynch, Eeg. of Brampton, who for many sears has effciently discharged the duties of Secretary of the counts of Pee Agricultural Society, besides obtaining medals anu premiums for agricultural reports on that and other counties, for certainly one of the pieasantest rural rides the I erer had in Canada. We drove througb the rich and well cultivated township of Cbinguacousy asconded the serics of clerations that form the ligh lands of Caledon, with its limpid strcamg picturesque little lakes, limestone rocks, and beauti 111 and extensive scenery. Ascending tho tower of the newly erected stone manaion of Alexander Me Laren. Esq., amidst lovely scenery of hill and dale field and forest, with the Credit mandering in the dis tance, I could almost imagine that I was in sone sequestercd spot of the mountain ranges of England or Scotland. This view embraces alroost a semi-circle, from the Scarboroagh heights east of Toronto, to the elevanons of Ancaster in the west, with lake Ontario spread out in front, hidden in several places by the gigantic denisons of the forest. It is true that the ex teaded tablo land of Upper Canada pregents few of those charmine riows which characterizo simila areas of the British Islands, or parts of the Old World continent ; but it is to this plysical churacteristic that ve harecno large traets destined to perpetual sterility and that almost every acre of our extensive domaln is capable of being rendered fertile.
All that is manting torender this section of coantry attractive to tourists are, readier means of access and a wider knowledge of the salubrity of its atmos phere, and the great diversity and beauty of its scenery Its picturesquo littlo lakes and crystal streams, running even through tho severest drought of summer, abound in trout, offering to the angler a relinble source of gratificatiun. From its coimpars tively great elevation, and in many nlaces liroken surface. giving rise to the principal rivers of Wester Canada, tua naturalist, as well as the mere secker at ter bealth and pleasure, will find much to interes and amuse in zearch of the thren great department of nature Lnoking at this district simply in a utili tarian point of view. much of it is well adapted to the purposer of cultiration, and the rest to pasturage while watre power is abundant as a means of manufacturing industry; and of woth of these two great
contoes of Fealth, the poople are oarnosity availing themselves.
Orangeville, which, a very few yoare ago, was a rildornoss, is now a smart litle place, pleacanlly and healthfully silualod, doing an extonsivo busi ness that is progrestivoly improving. This place bids fair to prosper. Mr Jassa Ketotuin, who owns considerablo property̆ here, has ehown much zoal and good tasin in laying out and improving the village. Iis example in planting treas forshade and omament, it hoped, will be apprectatod, and followed as the place extends. Mr. Ḱctohum is reclaiming a large picce of swamp, near tho village, through which a branoh of the Credit sliggishny finds its way. IHe beautiful trees and shrubs on tio drior portion lie intends to leaves and has alroady opence up a road for a considerable distance, which, when completod, will form an avenuo of great beanty and attractivoness, connected, as it is, with a prolly litite lako of clone water, of great depth, and abounding in fish. 1 ob erved here a practice worth noting. After the wamp had been cut and burnt, and some ditchas made, timothy sced was sown among the stumps, find although not harrowed in, much of it vegetared. in his way pasture is afforded to cows, and all weods bushes, and second growth prevonted, till the final extirpation of the strimps can be conveniontly accomplished.
The projection of a railway through this district bs ocupping decp anta deserved attention. Extending hrough to the conntics of Muron and Brace, it would intersect a tract of country whigh, for extent and for tility, is unsurpassed in Canada. I obscrved in several places in the moro broken parts of Caledon, where limestone abounds, several excellent specimens of stone fences, that reminded one of sotme parts of Staffordshire and Derbyshirc, and olher places in England. These fences are strongly built, nearly six feet high, and appear to bo unaffected by frost. The oundation is but slightly below the surfince, and during the process of building, a stratum of thin board is introduced about two tect from the holtom and another abont the same distanco from the top, which is said to prevent tho trost and settiement of tho wall throwing it out of the perpendicular. In situations where stone is abundant and wood scarce, his kind of fence is, no doubt, not only the most onduring, but, in the end, by far the most effective and economical.
Although during this trip there was no opportunity of holding public meetings, I had the pleasure of much personal intercourso with farmers and öthers bat was of mutual advantage. I regret not being able to attend a mecting of the Farmers' Club, to dis cuss the question of root crops, which are largely and skilfully cultivated in most parts of the county. This Club, judging from its published reporis, and from what 1 know of the zeal and intelligenee of its chict promoters, is an honor to the farmers of Peel, and it is hoped so worthy an example will be fot.owed by other counties, where this important means of inprovement has not yet been adopted. I miny add that I had the pleasure of being present at a public concert in the Agricultural IIali at Bramnina, on the evening of Ier Miajesty's birth-day, got up wy the directors of the Mechanice' Institution. The buildints was well flled, some six hundred people beng present, and the style and spirit of the pertormance reflected great credit on the town and neighbnurisood. It is pleasing to observe the per nanent buiddings and rounds which soveraí of our county agricultural so cieties now possess, devoted to healthful recreations and amusements, social and physical ; and the promotion of feelings of loyalty, and a sound enlightened patriotism. The new county buildings at Brampton, ow last drawing to completion, will be a greac ornament to the town; which, from its favorable position and rich surrounding country, appears to $\mathrm{l}_{\mathrm{m}} \mathrm{m}_{\mathrm{o}}$ before it a long career of prosperity aud improvement.

Yours, 太c.,
GEO. BUCKLAND.
University College, Juno 12, 1866.
Wimere Porthand Ceyent can be Obtained.-"W. \& F. P. Currie \& Co.,'" of Montreal, write as follows 'On looking over your paper of 1st June, I find your correspondent, "C. C.," Nelson, wishes to know where Portland Cement can be got. We beg to say that we bavo almays on hand a supply of Pure Portland Ccment, and Puro Roman do."
"Tie War of Bee-nives."-J. II. Thomas writes as follows :-"I did not expect when I wroto my first article to engage in a war of bives, as I took up my pen in reply to certain enquirics submitted for my opinion. But Mr. Henry, thinking that a sword of ivalry was unsheathed for him or his live, at once prepared himself for action. The result of the cuatest is before the publie, and as no new point of im-
poriance has been raised in Mr Menry s lasi comrnunich ion I reel inolined to ohderfully comply with your wish by latting the controverty cease.t
 Mary's, writes as under:-" In looking over the CaNada Fabmer of May 15, I find that " lhobert Blair," of Grand layy, Saguenay, reguires some informntion concerning a clarn. In answer, I would sny that 1 can manufactire an improved barrel chatn capable of charning 100 lvs of butter nt one charaing. $1 t$ could se conpled on to a horse-power with no ofther maz chinery but a connecting rod, or it could be driven by a pulley. It gives entire satisfaction to atl the farmers tho have qougbt it."

Wathriso Cklaby $==^{\text {" }}$ WH, K," of Barrie, writes as under: "Permit me, through' the colamis of your oxcellent journal, ito ask if Celery, planted out in trenches, shonla be watered ougry ovoning during the continunnee of this greal hezt. As thete is a dunerance of opinion on the smbect, I skall be gividet in the mater by yonr reply infortintion on the same point respecting Melons nod Cucumbers would also be inuch esteemed."
Asis-lit would be difients to lay down any arjimary rule on the subject, in the case of any of the productions named. They all delight in a rich, moist, mellow soil, but so far ad watering is concerned, your pactice should be glaided by the condision of the soil as woll as of the atmosphore. We shalt be glad, however, to hear the opinion of practical horticulturists on the subject.

Vhermany Schooln-"J. B." makes the followng enquary - is there an ustutution in Canada where Veterinary Surgery is taught: If so, please give me the address of the same in Tue Fatamst."
Ass.-W' had certainly believed, until we received "J. B.'s" communication, that cvery reader of this journal had heard of the " Cpper Canada Veterinary School," establighed for over three years in this City Our correspondent will find particulars of the Institution and its Professors at page 106, No. 7, of the current volume of Tife Caiada Faramb, and any Grther information may be obtained by addressing "Toronto Veterinary School," Box 571 , Toronto.

## Tht Cianala diampr.

toronto, upper canada, JULy 2, 1866.

## The Season.

We have to report a continuance of weather every way favourable to the labours and hopes of the far mer. Frequent, yet not too copious rains, accompanied by a warm growing temperature, have wrought like magic upon crops of all kinds. Even the grass which from the early cold and driught was consilered by many to have been injured and retarded beyond recovery, bids fair to be a good, if not abundant crop. Spring sown grain looks well. Fall wheat is thin and patchey in most of the old-settled parts of the country, owing to the hard winter, but in the newer scetions we hear the best accounts of it. On the whole the prospect is bright for a bountiful harrest. So far as we can learn, there is a likelihood of a good fruit yield also. The risk of injury from frost is over, and with ordinarily good weather the rest of the scason, there will, we believe, be a fair crop in most sections of the country. Happily, through the interposition of a merciful Providence, our frontier disturbances and alarms are over; so that the pursuits of peaceful industry can be followed again as usual. It is, indeed, a matter of surprise and thankfulness that the trouble has passed by, and the business of the country solittle interfered with by it. Mfuch expenso and loss of ime bave been occasioned, but the exbibition of patriotism, the development of a military spirit, and other good results that have been secured, are wörth much to us,-perbaps all thoy haro cost,

The International Hortioultural Exhibition.

Thus magnilicent uisplay was beld in a monster tont in South Kiensington, London, and was opened to the public on the 22ad day of May, closing on tho last Gay of the same month. In every respert, the exhibltion has beon a great succees. The forr display was unparalleled; the weather was unexceptionally fine; and the attendance of visitors-headed by the Prince and Princess of Wales-was something quite enormous.
With our limited space, it is of course impossible even to give a mere skeleton outhine of a show of Euch gigantic proportions. Ye rather prefer to gather up the lessons which the International Show is calcalated to teach the British public and ourselves. And first and formbost, as the Gardener's Chronicle well says, one of the most important, from a horitucul. tural point of view is this-e" that one-day great nlowershows must now become thing of the past." The same journal then goes on to argue with great force at t: 'lows and bás long béen evident that Anancially speaking a longer duration for ôur shows than that of a single day wasestential tosuccess ; and it lans also been abundantly cuident that as far as picturesque cffect is concerned, the advantage is all on the side of an exiension of time, as this alone can make it worth while to angment the resources of the show with materials that will servo to compose a sludied pietare ; but practically there bas hitberto been this difleulty, that many exhibitors set their faces against the notion, presaging all sorts of damage as being certain to befall their plants. The experience of the past few days must, we should thinkor we take the exlititiors to be reasonable menhave in great measure dispelled any such notions, for they must have now becomo thoroughly aware that any slight damage which may have been sustainedand a certain amount of damage is of course unavoldable in some instanees, which we need not specifyis rather to lee ascribed to the accidents incurred in the transit than to the detention of the plants for a few consecutive days. in a well-constructed exhibition tent."

It seems perfectly clear that at a well-chosen puriod of the summer, a week's, or cren a fortnight's show would be as safe for the plants as a show of a single day. Impressed with this belief our cotemporary goes on to say,- "We venture to hope that not only the Societics to whom we must loot to carry on the permanent exhibitions of this country, but the exhibitors themselves, and all parties concerned, will see that their own interests lio in the same direction as those of the public. Of the six or eight so-called "great" metropolitan flomier shows usually held during the summer the public is heartily tired, but if each Society on its own ground, or all the Sucieties acting in combination, instead of dividing their resources. would concentrate them on a single show really descrving the title of 'great,' and whichshould be conthuued over a fery days, they would far better please the public, and we believo would also more fuly replenish their own finances; for it is a fact well known to those who are experienced in the management of public displays, that the thousands, through whose payments ninancial success must always be looked for, hear notbing of a one-day's show till it is past, no amount of public announcment being sufficient to $r$ ain and fix the public attention at the right moment on attractions that are of so short a duration. For our own part we do not see why those public bodies who have the convenience of space snd plant, should not bave a continuons show for several weeks at least in the height of the season, closing and replenishing it from time to time as required. In such a case, advertising might be made to do its work on a pleasure-sceking public."

We conmend the foregoing practical suggestions to the attention of our Provincial horticultarists and their patrons. In a limited degree, we believe the same principles might bo reduced to successful practice so far as our Iforticultural displays are concerned. Why should we not have a monster gearly cxhibition of Flowers, Vegetables, Frut; \&c.-held distinct from the Provincial Fair-at Toronto, Hamilton, London, and Kingston alternately. We think the idea is worth considering

## Agricultural Report of 1865.

The report of the Minister of Agriculture for the ealeadar yoar ending 3lat December last, has been laid bufore Parliament. It contains the report of that Minister limself. the report also of Mr. Chapais, in charge of the return of the Culonization Roads for Lower Canalla; and a memorial from Mr. Tache, Deputy Ninister of Agriculture on Statistics. The roluminous appendix is composed of the annual ree ports of the two Boards of Agriculture of E"pper and Lower Canada, of the two Doards of Arty and Manufictures, of the Superintendent of Colonization Roads in Lower Canada, and of the different culunization agents of the lrowince; to which is saded, as a new feature the blue book for the year 1S64. In Mr. Meferes report, meation is made of an enquirs prosecuted at New lork. to leara the system of management practiced at the Castle Garden emigration ofice, on which a large report is presented. In the appendix it is stated that very material changes are about to be mude in the Patent and Agricultural Lates, but that it would be manifestly improper to make any changes without applying them to the whole country after Confederation is consummated. The report speaks of the imporiance of sine cultio.tion, and refers to the experiments already made by Mr. DeCourtenay at Cooksrille, near Toronto, as demonstrating that gond ordinary wine can be inade from the natire grapes of the countrg, under proper cultivation. He recommends aid to that undertuking. The Dublin Exbibition and the part taken by Canada there, is spoken of as a esccess, although of course very much iuferior to the display at Paris. belag in keeping with what is more of a local exhibition. Canada ranked eighth among all the nations represented in Dublia. it fair position certainly. The memorial of Mr. Tache to the Doard of Registration and Statistics lays down a plan of statistics which has been adopted by the said looard and acted upon since its adoption on the 18 th January, 1865. The report of the Minister of Agriculture speaks of the reformatory labours carried on during the gear which are to serve in the making up of the books of Canadian statistics intended for future publication. The Blue Book accompanying the report, gires the mane. osice, salary, and age of every person in the public service-being, in fact, the administration statistics of the country, as fir as the geneml gorernment is conceraed. It is the first time that this will be printed and publicly circulated. Formerls it was destined for the Imperial Government, to whom a copy tras sent every year. No reference is made to the measures regarding rinderpest, as these did not come within the gear taken up in the report.

## Cattle Disease in Maine.

Als. information of a reliable character relatire to the fearful cattle plague must be of interest to farmers ererywhere. We are happy to observe that (n)m the latiat accounts from Europe, the maladr sti l continued to decline, in some places rapidly, lonth in England and Scolland. In Ircland it is not absolutels certain that the genuine Rinderpest had actually occarred at all, and that the very few cases generally beliesed to be such, had been effectally disposed off, and nothing new of an alarming character, according to the Irish Farmer's Gasedte of Juno 9in has since transpired.
We are farourcd by Mr. Goodale, the able Secretary of the Naine Board of Agriculture, with a copy of his report on certain cascs of dilsease, sapposed to be Rinderppog. Enat recently occurred in the country of Xork, in that staic. It is satisfactory to whserec that whio every practacable precantion should continat 16 be ueed in the matier, there is no authentic information that has reached us from any part of tho Cinited Statee or Brifeh America, that rould oxclto alesta.

Importation of genuine Peruvian Guano,
We hail with pleasure the annonacement, which will be found in our advertising columns, that won are likely to bave, ero long, a direct cargo of l'ernvian Government Guano. This will como from the Chincba Islands, probably to Toronto direct, and if reguired, the vessel would no doubt deliver portions of her cargo at different ports on the Lake. In order to secure the disposal of the Guano at the lowest possible price, is is necessary that it should be delivered at once from the vessel to the purchaser. In thes way storage will be saved, and the other expenses always incidental to handliner. As the consignees are destrous that the Guano sthouht bave a thorongh and intellgent test, they have arranged with the briash Agent for the Pernvian Goverument to sell it at a price very little over that of England, and stould the result of the use of this small cargo be suffecently encourariog to warrant the importation in larger vessels, the price wonld probably bear some reduction.
We regard thes first direct importation of ciamo as an crat in the agrocultural history of Camada, proriding, as it does, a highly concentrated mamure at a price whils will repay itself many fold to the neer. and whech can be mported in any quantity The Gumo is put up in bags contiming from 173 to $: 00$ los. The proportion of Guano to be used per arre naturatly depends unon the requirements and condition of the soil. From 22 to 5 cwt. (which amounts would respectuely cost $\$ 5.50$ and $\$ 14.50$ ) per acre may be used, and of the latter proportion, the betmefit to :he sonl will be reaped for some years after is first application. The admixture of bone dust with Guano, while economising the latter, creates as miraculuns un effect upon the root crops as tin. unmixed Guano, and a.s a top-dressing for grass, it is javaluable.
To show the cormous extent to which (inamo is used, we need only state that the quantity importel into Great Britain durimg the past jent was one: 133,000 tons, represeating a valuc of upwads of ten Millions of Dollars.
It might be objected that althongh guite suitathe. Wo the damp chanate of kngland, it might fail in the dry climate of Canadit. It is, however, cnough to suggest that it would be quite as foohsh to apply Guano ia a tine of extreme dryness, when secmathe plant are thirsting, not for stimulants, but for moisture, nes it would be to commence hay-nalaing on a Fainy day; and that in onr Canadian Spring and Suminer, we have times ay stitable for the applacatiou of Ginano as there are in Eaglanid or elsewhere.
Belicuing this subject to be of great importance, we trust : lat this celebrated manare may receite a fair trial in Ganada. To this ead, we would recommend a trial of the Guano to our deffereat agrienttural societio. It wonld be an casy matter tor a few of them to buy up this whole cargo, and distribute it in small or large quantities at a pasing price bute it in small or large quantitics at a paging price
around their sereral neighbourtiods. If e.ch of around their sereral neighbourthoods. order 10 o. 15 tons, a great proporion of the cargo would be taken up, and the order tor its immediate despatch be sent at once, so that it might arrive, at latest, in Say acxt.
The Consignees would no doubl be fiad to to tate orders from indirduals as well ns from societics, their anxiety beng that the Gunno may fand ats way into the best hands, and that the results of is fait trial of the cargo now in conternplation unay estab. lish it as the forcrinner of much lurger importations
From the source from which lis consignment comes, there cau bo no shadow of doubl ay to the genuineness of the article. It comes directly through the agents of the Peruvian Gorernment-one of the loading arms in Eingland-to pronerly accredited consigncos, and will bo delivered directly over the ship's side.

Ine Will Teis. of It.-The editor of the Sarmers P'carl (Mo..) in lecturiog his patrons for certain shortcomings in their farming practices, gires them the following warning :-" Weintend soon to make a trip among the farmers of Misoouri, and when we see the bouse, warn, barnyard, and pigstycall in ono yard we nhall tell of it. Where we and the gato swinging open for the Hant of a latch, or leaning against the fence for
Yant of hlagen, or the barn deorfull of rillo for That of
in loor, or the fuce torn down whenever thero is a team to be driven out of a lot or neld, wo slanll tel of it. Whete we find pigs rooting up the garden, tho sherep and rabbits batiking tho orehard, or the cattlo or hors's turned in to broirso upon it, we sha l speak of it. Where we seo your farming tools have lain out all winter to rot and rust, and your waggon not run under the shed, wo shall speak of it, for such things are not right."

Book Notices.
Forrtil Ansial. Report of the Secretary of tafe State Babin ow Aumilitube, of the Siate of Micimean, fur the year 1 sub.
This volume, which Mr.Sanford lioward. Secretary of the Board, has kindly sent us, contains much ralu able afurmation on a large number of subjects re lating is agriculture, together with a record of metereolugical observations taken at the State Agri:ultural College of Mechigan. It opens with a short acculut of the se:son and yield of crops of 1565, from "hich we learn that the year was chietly remarkable for a long contuned season of drought, which lasted from early in 3lay thll hate in September, and greatly injuted most of the fieh erops. The yield of wheat, turoughout the whole comary, was upwards of 12 mithun bushels less then in the previous year, and at the same tate of ata mferior quality; barley and hay suffered djo to a considerable extent, but potatocs and cora dal remarhably well, the latter yielding unwards of 173 million bashels more than in-1S65! An wham: in mext gaten of the advantages of Michigan fir the pheductuon of fruts, in consequence of its insulu posiuun, the quathy of its soil, and the protec. tion from winds afforded by its tracts of forest. Some new crups, such as Sorghum, Tobacco, Rhubarb "Which sume would dignify with the name of "rine(1hat ) : are noticed, and then the writer proceceds to the consideration of such noxious insects as han lately made theirappearance in the State, in addition a thuse commonly observed. The Canker-worm of the apple-tree is described at length, and various remedies and prewentives are mention, amoner the most remarkable of which is "Merritts l'atent Trece. Protector " made and sold loy a company fo:med for the purpose in Boston. This invention may be considered, we suppose, the last new " lanke dodge" for circumrenting insects; whether it is really effective or not, we cannot say. It coasists of a ring of glass, grored on the under side, and hung round the trunk of the tree by a tent of cloth. It is chaimed for the insention that the hollowed glass presents a per fect bar to the ascent of the wingless females of the moths, and that the tree is thus protected from being injured by fresh broods of their destructire caterpillars.
A large portion of the remainder of the Report is devoted to the subject of Galloway Cattle, Cotsrold, South-l)own, and Merino Sheep, Horses, the Rinderpest, \&c. unon which much valuable information is giten. The article on breedag liorses, by lise wellknown veterinary, W. C. Spooner. taken from the Joarnal of the Rogal Agricuttural Socicty, Englat.d, and interspersed with noles by Mr lloward, is par ticulatly worthy of pernsal. Wie would also draw at:eativa to Mr. X. A. Willards' ndelress to the Cbecse Manufacturers' Associatica of the State of dew lork on the subjirct of "American Cacese-Darging-the means for is improvement and suecesa," $t$, which is appended some cxecedmg's useful remarks. by Mr. towell, on the diference between American and English cheese, and what is neceesary to make the fortaer equal to tho latter. Both theso papers wo would recommend to the careful attention of checse manufacturers in Canada as the same faulis there ascribed to American cheeses, are too of.en characteristics of taose made in this country aleo. A paper or - Some causes of Unproductireness in So.ds" Dy Dr. A. Vocleker, reprinted from the Journal of tho Lioyal Agricultaral Socaty, a lienort on the Stato syrimit. Agricultarai Socaty, a heport on the Mate dgrirnit.
tural Cullege of Michgan, and the Metercological reports for the past year, complete the volume. ifo shoath nde that it is illustrated by several wool-cuts of eattic and sheep: among the latter is a figure of: Mac Coiscrold ram, bred by Mr. 15 . W. Sbone. of Gaciph, C. W. and afterwards ornaed by Mr. White
of South Eramlugho, of South Framloghara, य (avo

## algritutturat afutuligrme.

Wool Pronection-We larn from the Grand River Sachem that "tho dock of Mr. James loung, Tornship of Seneca, consisting of $5 i$ Laricesters, areraged 7 lbs of wool per sheep. If searlings averaring 8 lbs. per Reece. We doubt whether many farmers can beat this."
Tue Crops.-An experienced farmer who has trarelled through Waterloo, Perth and Middlesex, states that the crops look luxuriant everywhere. The epring wheat is especially govid, and remathatly strong. The recent rains, followed by the present fine weather have been the cause of a wondertul progress in all kinds of vegetation. As prices seem likely not only to maintain themselses, but to advance, there is ceason to beliseo that, shuahd no untunatrd usent piesent itself, enother year of proiperity for Canada is about to dawn, despite the Fenians. - Iree Press.
Usertherss of Isect pestronive limus.-- It a recent mecting of the Acclimatization Society of New Zealand, a sum was voted tor the purpose of procuring Australian magpes from Melbourne and hobart Town, it being considered the cheapeet and best burd to introduce for the destruction of caterpillars and insects; as from trials made in the Society's gardens they have been found not to yossess the same destructive propensitues as thoir bugtela namesakes, of that 50 should be sent to Enghand lor tio prathase of small birds.

Crop Prospectsin tue. States--1 Rochester paped says there is " a prospect for a fair crop of wheat in Western N. X. In some localities the fields are very promising, pittsburg napers thak there wall be a poor crop of Theat and other graius in 1'a. Uhw will millions of bushels to spare. In some parts of Illinois millions of bushels to spare. In some parts of llinois
all the crons are looking well. Exchanges admit an arerage yield of two-thirds the usual amount of wheat which is a great abundance. Other crops prumise their usual nmounts. In Wis. an ample harrest of wheat, oats, and potatoes is expected. The prospects of an averago wheat crop in Mich. are good. lud. is set down for only halr a reat crup, but corn, oats and grass never looked better. In tows. crups of all kinds have a fine appearince. A large yield of corn and a fair one of wheat is anticipated from hamsos; Agricultural reports from Minnesuta are fispourable.
Sueer Ixporrimion:-The Qucbec Chronicle says:-- We bad the pleasure, on Mlonday, of iaspecting a magnificent fock of Sheep, arrwed mour port per steamer Achilles, on tho 12, h, which lelt London on the 12th Blay. The llock is part of a selection of fiftecn rams and twenty gives, from the very best Lincoln and Leicester breed that England eau produce. They wers selected by Mr. Joseph kirby, of the firm of Firby \& White, of Milton, County of Halton, C. W, They are still detained at print Levi, n compliance with an order in Council pobibiting the importation of Sheep. We may add luat tuey appear to be in excellent condinon, notwati- tanding the long sca-voyage; and that they are pronounced. by some of tho best judges of stock in thes district, to do the anest lot of Sheep ever brouglit to this port. As a proof, wo need onis mention the fact of the liveweight, at fourteen monilis old, being 2 solibs. At the samo age, six of them clipped 10: los. of cle:n kashed wool. We cannot praise 100 hipluly the spirit of enterpriso which prompied this mporation, and se hope it may bo matated by many of our farmers. We may add that a sample of the wool, measurme twenty incles in length, carn be secea at our ollice.

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## Homedale Farm.

## the swany of axes.

Me. Perley was of opinion that as far as possible a a farmer should have every form of raral industry going on upon bispremises. He had therefure early in the spring bought, a hive of bees as at coundation for on apiars. It mas an ordinary box live, and contained a good strong stock, with an amplo supply of honeg to last until the storing seasun shotild arrive. To qualify himself for their management, he bought "Langatroth on the Hones-Dec," and "Quinby"s Mysteries of Bec-Keeping Explained." These bouks and the rarious articles on bee-kecping which nppeared in the Gayada Fanner, ho read rith great
avidity, and became deeply interested in the word of ronders revealed in the habits of theso wonderful insects. Ile found that many ancient modes of procedure with bees were exploded, and the patieat researches of Muber and others hand thrown floods of light upon the wholo subject of bee-keeping. He was interested to learn that by blowing a few puffs of smolse into a live, the bees could be rendered so tume as to admit of their being hamiled with impunits. Many other points brought ont in the public.t tions above mentioned, struch hia wery furnibly, and he was especially pleased with the accumas he acont of bee-managenent with noweablecomb, later. He regretted that his own stock was not in a hive of that descriptinn, and determined that any future suntrms he might obtain should be put ints the imptused hires. He was glad to find as he pursued his int estiantions on the subject, that bees cond lic tramferred frum the common box his to the moveahin comb hive. He ascertained that either at or shortly after swaming, was a gool time to elfect the chonge. learing leet ha might not manage it well on the first atcmpt, and not lihing to risk his whote stuch, he concluded to postpone the transfer until after the first swarm had come ofl Shurtly befure blarmiar-tade, fre took care to be provided with one of Thomas Mureable-Comb Observing Bec-Hires, and whaths ou hand, together with a protector and a pair of beeghowes, he was ready fur operations whenter the bees might please to sally forth.

Therse bee pruceedings did not cel.epe the notice of the yuing fulhs. The hite was of frquently-ubsersed and carefully-studied object, thourh prodence dictated keeping a respectable distance from it. Is usual in regard to all matters of family interest, the eres were more than once discussed by the home circle. Charles had been watching the hive one lay in early spring and noticed the bees returning with their thighs and legs laden with yellow stun. Yery naturally le took this for honey, and duly infurmed papa, mamma, and the entire family of what he had seen. He had made a slight mistake, however, which his papa corrected It was not honer but pollen with which the bees were laden. "What is pollen "" asked Charley . It is the dust u dluwers, replied Mr. Perles. "What do the bees collect it for?" enquired Charles. "To feed the young bees with," answered his father. " Many experiments have proved that goung brood cannot be reared withoutit. It forms their principal food." "What makes it stick to their legs," asked Charley. "They are provided," said Mr. Perles," with a spoon-shaped hollow, or bisket on their hind-legs to hold the pollen as they gather it, and they alouys heap up their little basket and carry ns much as they can so that it streams down their legs." Auother time, Charles and Lucy inad been looking at the hive. and were struck with the industry of the bees, and the haste they made on their errands. They spoke of this in-doors, inucy remarhing, " What a hurry the bees are always in going out and coming back to the birc." " les," said Charles, " thes more as if somebody was after them to punish them if they rentured to lag a bit., "Bees," remarked Ifr. l'erley "have always been considered an example of diligence. . As such they teach a lesson to us. Lucy can repeat t.at nice little hymn which speats of this." So Lucs recited the well-Enown lines ofDr. Watts:-

- How doth tho intso visy beo

Improvecechindingite hour,
And gather buncy nil tho cias
"How shilrulls cho valles her cell,
Apd taboura land to mioro is weli.
With sto swect fool nio inalic:
Io works of hibhar, or of skill,
1 wouks to Luey to?
For Sanan souss kivon mischiefestil For ldio lasuds 10 to.
"In 2ookR or works or hcalthrut play IAtmy arst scass 10 past, That 1 mas sivo for orcty dis
Smarming time came at length, and une fino day torard the end of June there tras a great commelion
about the live. Tho bees roshed ont in great oxcite ment, and commenced whirling round and round in the air above tho hive. Before long they began to move aray, still flying round and round, and mixing amony each other in a most singular manner. Fortumately they dud not go very far away, but clustered .ll in a mass upon a branch of one of the npple-trees oa the edge of the orchard. Mr. Perley soon made his preparutions for hiving them. Placing a table a short distanee avay from where the bees were hanging. he put his hive on it, dropped the bottom-board, and hid. a roose wing near by. Next he put on his wil and iudia-rubler gluves to guard againstaccident, and protect lim from being stung. Then taking a basketh.arge enough to hold the bees, he cautiously appoachel them. The bough hung down with their weighi so that he could reach it from the ground. Iolding the basket close beneath the cluster of bees "ith une ham, he gave the bough a sharp shake with the other, so that the living mass fell softly into tho Bashet. He then shook them out of the basket upon the chble just beltind the hive, and taking the goose"ing bex, th to brush them carcfully toward the entrance. Very soon the greater part of them were in the hive, and the rest coon followed, so that in about tquartec of an hour they were all in except a very few stragblers. The hive was then removed to a stand near the old hive, and having shaded the nerp hive from the sum, Mr. Perleg left them to settle down in their new home. The children watched the process at a safe distance, and were not a little pleased when it sas well ow er, for they mere somerbat afraid their papa might get stung in spite of his veil and glores. Charles thought it a very simple operation, and told his papa he thought he could do it. "Well," said Mr. perley, "I am glad gou thiak 60, for perlups the bees might swarm somotimo when I am not at home, and then I shall be very much pleased if you can succeed in hiring them. If such a thing happens and you manage to do the business, I promise that yun shall have a nice present of some kind to rememur the bees by.: Chates invardly hoped he might get the chance, puite as much for the credit of doing the thing, as for the reward his papa had promised him. Indeed he was quite interested in the bees and and thonght he should like to know more about them. The hive into which the new swarm had been put, han glass sides and little doors fastened with buitons, and boith he and the rest of the family anticipated much pleasure in watching the bees when they got fairly to work.

## (To be continued.)

## To Preserve Spring Rhubarb.

Prepars: the rimbaty as follows:-Take 1 lb . of the stallis after they are pared, and cut them into short lengths, and put them into a quarter of a pint of water proviously boiled with $G$ oz of loaf sugar' and simmer the fruit in it for aibout ten minutes. It will then form a sort of compote, which is preferable to the nudressed rhubarb for spring taits.
For rhubariu jam, to cach pound of the young stalks, pared and cut as abore, add an equal weight of good sugar in fine powder; mix them well together, and lot them remain about a quarter of an hour, then turn them iato a preserving jar; heat them gently till tender, then boil them rapide, stirriag them well for about balf-au-hour. This jam will be of cxcellent flavour, and will serve well for open or laid tarts.
Another way is to boil gently together, for three hours, an equal recight of dioe sugar and rhubarb stalks, with the juice and rgrated rind of a le.non to cach pouad of the fruit. When the truc gavour of the fruit is much liked, the lemon-peel shonld be omitted. A very good jam may be made with 6 oz . less of sugar to the pound, by boiling the shubarb gentiy for an hour beforo it is added.

Rhubarb jchly is a norel supper dish. It may be made as fine as applo jelly, but requires longer boiling before tho sugar is added, and a litlle isinglass way be requisite.
linr rhubarb winc, to erery pound of bruised green stalks put a quart of spring water; let it stand iliree days, stirring it twice a-day; then press it and strain it ibrough a siere; and to every gallon of tho liquor put 2$\} \mathrm{lb}$. or 31b. of good loaf sagar; barrel it, and to every five gallons add a bottle of white brandy : hang a little isinglass in the cask, suspended by a string, and stop it closely; in six months, if tho swcotnces bo sumalenetly off, bottlo it for use, othervise ict it atand la the cark nomonkut logreri

## Atritish chranimg

## The Destruction of Birds.

A correspondent of T. e Furmers' Magazme writes the following remonstranee on this crucl amd unwise practice to inat jourmal. Many of its obsersations are as applicable to this country as to lisitain. We. therefore, lay it before our reiders:-" As the spring advances, I wish yon would urge upon g war reculcrs the policy of protecting, as far as practacable, the nests of our sung birds. It is indeed painful to notire how very much our birds have decreassel in number of late years, and not the song-biris only, hat with these rare and always interesting specimens. The gun alone has tone fearfin havoc; the net of the birdeatelery, the use of poisoned grain, and as the last, if the least enemy, the selool-boy, have ath done much in the way Are we to sit sitent until our isle has lost one of its sweetest charms? How strangely dues thes neglect to preserer our song-birds contrast itself with our countrymen in our antipodes. where the Evolishman in the land of his adoption lorea to watch the increase of English Uirds. and fiel a kind of enrbantment while he listerus to their melody" It is with feelings of pity and regret that we witness lay by day in our game shops long strings of larks anid other small birds fir sale. Surely the appetite of cren the epicure will turn from these tiny mursels when be replects that he himself is accountable for the destruction of one of the ssectest of England's warblers I have often read with disgust how such, and sach a lower of the trigerer has shot some rara acis, as it is tmuls melancholy to find any man of mind who can rejoice at hating destroged one of the fers Who cam rejoice at hating destrosed one of aske bave apecimens of some beautiful bird, and, I ask, bave we as Englislumenany jut right to go on to the end
onnihilatiar erery knus enecimen? I feel it wall onnithiating efery knusn speciment Ifeel it will be said by very many, more particulary those who
are game preservers, hat thry must treat many of these birds as vermin, but let us pause for a noment and ask ourselves if it is not Larbarous to gu on hilling such illustrations of the great Creaters bandwerk? as. are we not rather bound to hand them dorn as Eis heirlooms to future generations:

## Provincialisms.

Jcognc from an article in a late number of the Cornhill Magazine, the English peasants still speak a language preguant with meaning. living out of doors, their words breathe an out-ofdour air. Their inages are picturesque and full of life. Thus in the northern districts a starring man is said to be $\because$ bunger-poisoned." and people are "bonetired. crope, when spoolt by rain are said. in the eastern countics, to be ". water-slain." and in Westmorland, When they ripen well are said to " adde well," as if a notion of working and earning were ioplied In hutn. ustead of sumging him. In Derby:hire he will say be - tells a smell." "ust:as in Exodus the liraclites - saw the thuaderiugs' at Mount Simi. The English "sinw the thuaderius at hount simai. The Eoghent peasant likewise christens his fowers after their babits. In the Midland countier the common goats be ird is his " nap-at noun, and bis go w- bed-at-
noon. and the star of Bethlecem is his six-o clocknoon. :mane star of Bethichem the her six-o clock-
thower," from their closing their fowers at those times. The searlet pimperacl, from its susceptibility to the changes of the weather, is bis "shepherd's dial." The orchis is his "cuckoo flower," because it blos soms when the cuckoo is first heard, and the arum, whose leaf is seen still carlier, is his wake-robin.: Like Ifesiod, he knows the seasons by these sigas. He has, too, like his fellow in Germany, jealonsly preserved all the old religions names of towers. The cannot any longer oppreciate their beaty and their meaning when the maiden's garland is no longer bung mincharches, and the marigold strewed on ber bier. The saint no longer protects his flower. Yet some
faint echo of a religion forecer past lingers in such raint echo of a religion forever past lingers in such
words as lady's thistle," and " lady's fingers," and words as lady's thistle," and " "lady's fingers," and
$\cdot$ lady smocks." "all silver white," as Stakespeare lady smocks," "all silwer white, as Stakespeare
singe. IIe has preserved also. the old names by which Shakespeare. and Johnson, and ICanmonl and Fletrbis. knew the fowres Surl quaint old names as "Inwe lies a bireditig. . Threc faces under a only in the pages of Elizabethan dramatists and in the mouthe of rustics

IInt to Plafy Dab Water--Says The Madical Times and Gazdte.. . We ronder that trarellers do not carrs with ibem a lathe bothe of permanganate of potass, a few drops of which would speeduly purify any water $A$ friend of ours, who has just relurned from India, tell, us that he has derived the greated bencfit from its amplogment. In cases whero the
water was turbid, and tasting and smelling of do-
cirying oresale matter, the addition of a few drops of the solution of the permanganato made it in a fer mintes as clear and sweet as spring water.
Canzess Suerp.-"The Farmer (Scottish) states that much attedtion has of lato been given to the adrantages that migut acerue from the importation of Chinese sheep imo Western Australin, and an encouraging report has been recoived, which may stir up those colonists who entertain a high opinion of the Clinese brech. These are promounced to be ad mirably alapted to the Australian granses. 1 he prople of Victoria hare taken the mather in humb, as well as the furmers of New Sonth Wales. and are likely to earry it out with spirit. The shece are large, and yield a heavy clip. They are said not to hre saligeret to foot rot. and their increase is vers

Thi: Iteat of a IIthiand Beilock.-The Earlstoun correppondent of the Kilso Chronicle has even the fullowing parimeaph to that journal :-Mr. Mills Hyndside Hill, lately mlanghtered a very fine lighland bulluch of a cream color, weighiug 70 stones The head of this mimal, after having been subjected to the art of the taxidernist. We had an opportunity of secing latet week. The following are some of its di mensiuns, which are axtraordinary enough to meri pablication:- The horng at the root measured 11s inches: a lume stretched between the tips of the horns measured tat mehes. When the line was lain along the horns restugg on tue top of the heal. it measured GUs inches, and the gith of the head helow the horms tod inches.
 The Siermer (Suttish) that "a remarkable accumblation of game and ohtr animals was discorered a few daye ago by the slephlerd of Corriemuchloch, neat the top of the sm. (flen, perthshire, in a recess of the rwh. Which apparently bad been recently tre quented by foxes. The bole or den contained upwarde of 100 head of grouse, thirts-fire mountain hares, some partridges, four lambs, a young hid, \&c. The large store of gat e and lambsappeared perfecily fresh, and had only been lately captured. The district in which the discovery was made has for some tume past been completely orerrun by foxes, and the ravabes they bave committed among both sheep llocks and game are beyond calculation.

The: Puen of babour. - The Builder says that there have beren at work two distinct and powerfed canses afecting the rate of daily wages. One is the increased prosperity of the country, which has created a more steady demand for labour of all kinds, and thus has raieed its price on the great principle of supply and demand. The other is the increased quantity of gold in the comnery, which has lowered the purchasing value of munty, ro that a pound will now no more purchase the same amount of labour that it would in 1548 than it will purchase the same weight of butcher's meat. The first cause tends to make the workmen better off, as compared with those who employ him; the second cause tends to raise bis nomiinal "agis, lraving hun neither better nor worse of by the change.

Tur: Streats of Lomons - We learn from the evi denee recently given, before a parliamentary committere by the Commisyioners of the Metropolitan and the Cisy lolice, that there are in "the City" proper 440 streets, and in only 70 of them is there room for more than two lines of rehicles to pass at a time for the entire length. so that a reliclo may stand still in any part of the strect, and not interfere with the progress of one line of traffic. In 111 of the streets only one line of velicles can pass; 101 bare no exit, and are not thorongunares at all. In tho sear of 1865, 3358 summonses were taica out by the city police against drivers and conductors of rebicles and others for offences tending to impede tho free passage of the plblic thoronghtares. In the metropolis outside the city" 616 drirers of rehicles were convicted of urious driving, 140 persons were sun over and killed and $170 \mathrm{~m}_{\text {mained or }}$ or injured.
Stcressfti. Treatment of Hidnophoma.-The Wolecrhampton Chronidic records the successful treat ment last werk of a case of hydrophobia, by Mr yope surgeon, of that town. It seen's that about a month ago a servant girl was tying up a dog Fhich has since sheren symptons of rabies, when the animal bit her on the right thumb, She cxperienced no ecrious tesults until Tuosday week, when ber tbumb, arm. and clies became considerably spollen, accompanied with great heat, pain. redness, stifness, and numbpess. the arm heing so stiff that sbe mas almost unable to move it Mr rope saw be girl on Thursdas, and found her cyi dently suffering from bydrophobis, the result of the ill, biumg and tearing at altoost everytbing near her. and sufforing much from convulsions. AIr lopo delermined to cause proluse ealivation in the patient with the yrew of peutraluziog dee potsonous character
of the saliva of hydrophobia. This is a couse ol procedure no oftell parsued, but its beneficial enecta were soon apparent. On Sunday, tho convonsions and the spasms, from which the poor gillaloosuffe ed, bad ceased, and there appears to he overy prospect of her ultimate recovers.
Rre-Ghass froy the Marlen Sands.-Says the Aqricultural Gazetle:-"Among the many beautiful objects cechibited in the Intermational Horticultural Show is one of more modest appearanoc, possessing some agricultural interest. There is a box of Italian Rycograss, which when brought on Monday was in axurtant and forward growth, having been sown last February on soue of the Maplin sand, and since watered with the seware as it ruas into the Thames at Barhing. In perfect health and growth, equal atready to a cut of several tons per acre, and sown only three months ago. it is as suficcent testimony to the rapability of sewage as a grass-grower upon sand. The experiment on a hargerscale at the outfall, where an acre of the Maplin samd has been brought up, is in promising progress. The grass sonn only at few wenks aro is coming eathisfachorily, and, fed at intervaly wiff dres-ings of the liquat manmer, it will no donht soon exhint landaiance espat to that in the pecimen bos at the International Show.



 (those from the hanelismithis torge to le preferred) and inn parts gas lime frum ga-norks, to be thor"uphy mand ath tha n made into a muctur with gasan. It the gis tar come trom gas-works where the mmoniar ol ligure iv nut suparated. at will be suftciath mival fol thi purpoue. but if the fitter hesepaated and the t.an ler hich. it will set queher if about
 the t.u whe" 1 and for the ilvors of con-sheds, this honhal lir laid aliout three inclies thich m whe layer, on all cuan surface of grarel, or stune broken very mall with a spinkling of ytasel wer, and rolled lown The mortar may be laid on with a common shovel. and merely patted down fat. In dry, warm weather it the mortar hus been carcfully made, the thoor will set frm in a few days. For any ordinary ont-homse, half the thickness will make a permanent floor."
Most Deplomble Igananace.-A recent issue of the Iritish Quarterly Nectieo contains the following astoundiag - nay, almost incredible-revelations of the British cer which exists among some sectionsons, averaging more than 12 years of age, including a young nan of 20 and two young women. could not tell the Queen's name. The commonest and timplest objects of nature, such as flowers, burds, fishes. mountains, and the sea, were unknown. Some thought London ras a countr-one that it was in the Exhibiti on; a Violet was said to be a pretty bird, a Primrose a red rose, a Lilac also a bird; but whetlier a robin or an engle were birds none could say; sume knew not what a river meant, or where fishes live, or where snow comes from; and a cow in a picture wis pronounced to be a lion. Sfultitudes of these poor chit dren can never have seen a primiose be the river't brim, or heard the song of a lark.
Sorf: ur Ed. C. F.-During our British expericace we lave met with Cockney children who were per fectly astonished to tee apples growing on trees; but we woro quite unprepared for such a picture as the above.

Mow to Retain the Cohoct of Floners.-Tbe following method has been giren in a late number of the Journal of the Society of Arts. A vessel with a movable corer is provided, and having removed the coter froin it. a piece of metalic gauze is fixed oves it, and the cover replaced $A$ quantuty of sand is then taken. sumfirient to fill the vessel, and passed througha sinve into an iron pot, where it is heated, with the aldition of a small quantity of starame carefully stirred, so as to thoroughly mix the in gredients. The quantity of stearine io br alded is at the rate at half a pound to one mundred poinds of sand. Care mist be taken not to add too much. ax it would sink to the bottom and injure the thowers The ressel, with its corer on, and the ganzo bencath it, is then turned upside down. and the botom leing removed, the dowers to be operated upon are care fully placed on the gauze and the sand gently poured an so as to corer the flowers entirely. He leares being thus prevented from touching each other The vessel is then put in a hot place, such, form tanere. as the top of a baker's oren. where it is lent ir forty-right hours The flowers thas liesome drima, and they retain their natural colnurs. The vessel still remaining boltom opwards, the lid is taken off. and the fand rins nway through the gaize, learing the flowers uninjured.

## ginticuthurs.

## Jottings from the London Botanioal Congress.

Denina the same poriod that the International Ilorticultaral Exhibition noticed eisewhere was beld, a llatnuical Congress, under the able I'resilency of Profegsor do Candolle, daily sat in the Raphacl Room, Sulth Kensiagtun. The fulluwing aro merely outline notices of a fen of the papers preconted and read:
Mr. Jayes Andersuit, Meadow Bank, Glasgow: Ubserrations on the temperaturo of weather, and its effect upon plant caltivation.
Mr. Anderson considers that practical garduners do ot attach sufficient importance to.the seience of horticulture, but rely too mach on routine, especially so kith reference to the temperaturo of the air in plant-houses, and to that of tho water supplied to the plants. IIe advocates the importance of employing water at least as warm as the air, or a little warmer. for watering tropical plants, especially Orchids Mr. Camboli.. Glasnevin: On garden drainage
The author, after alluding to tho necessity for, and the adrantage to be derised from draining cultivated ground, goes on to state that no adequate provision stopped, and, in many cases, rendered quito useless and ecen meschievons, by the intrusion of the roots of plants, and the deposit of oxido of iron, carbonate of pime, de. The evil in question he proposes to remeds by laying a body of porous material beneath remedy by laying a body of porons material beneath because he has observed that roots always descend because he has observed that roota always descend
by preference to the bottom of any such porous suldstratum as they may come in contart with.
Professor De: Uivnomine, Geneva: On arecent very
exact measurement of the diameter of the trmis of
ono of the gigantic Sequoias of California.
M. De Candolle, in this paper, gare the measurements of one of the buge spucimens of Sequoia (Whl lingtonia) of California, viz.. that known as the Olit height of 128 fect, its base cut across now serves as a dancing floor. Ni. de la Ruc has recently measured the diameter of this tree in the following way. A slip of paper was stretched across the diameter o this trank, the annual rings being marked of with a pencil on the naper, according to the conrenient method recenty proposed by Augustan Pyramus De
Candolle. This paper mas cabibited by In. De CanCandolle. This paper mas c.bbibited by al. De Can-
dolle, and the following details were giren. The dolle, and the following details Were giren. The
diameter at about the leight of 6 English feet was 26 diameter at about the beight of 6 English feet was 26
feet 6 inches Eirglis'. The entire height of the tree, before it was lirolit in by the wind, was approximateIy 350 foct. Tbe rumber of rings was counted by M. de la Ine and his assistant, one going from the oircumference towarils the centre, the other in the opposito direction. The one counted 1223 rings, the other 1245 , which wero marked on the slip extibited by M. De Candolle. The mean of the obserrations. Whictrisno donbt nearly correct, gives the tree an age of 1234 years, which is not an cxtraordinary one for trees, especially conifers; thero are, for instance Yow trees which dato back from the Ghristian Eira The Sequoias grow in a deep and rich soin, and thert rate of growth appears to lave been vers umform thus on the slip it may be seen that at the age of tuu - 500 gears, the annual rings were still thick, white in ordinary trecs the layers become han at from so circumstances Specimens of the wood were also exhbited.
Mr. W. Eanmes: On the preparatory formation of trained wall fruit trees.
The writer sets forth that the present systom of praning trained trees in the nurseriesisobjectionable, on the ground that the too freouse of the knifeinuares and ofen destroys the constitation of the trees when in a young statc, and is one causo of wall-trecs shrivelling and dying. It is also the canse of a too gross aftergrowih. and consequent unfruitfultuess He adrocates, in place of the common system. sum mer piaching, which attains the end sought in les time, and produces a sonnder tree, more favorable to remoral.
Mr.S. Mibbard, London: On the naming of plants. The importance of botanical nomenclature to science, art, literature.-Classical origin of many of the names of plants.-Names of plants divided into two classes, nataral and artificial.-Proralence of ar tificial names at the preseni timo; objections to them - Proposed revision of botanical lists.-Proposed es. tablishment of a board of botapical aomenclature. M. Vas Mcise, Ghent: Rational method of praning. The writer assames that tho fraits produced in
duced by trees left to their natural growth, oniag to duced by trees left to their hather 80 handsome in form nor so Which they aro peither so handsome in form nor 80 productivo as might be. Their productiveness in England, such as it is, is due rather to the skill dis.
played and cost incuired in manuging the ground played aud cost lncuired in manuging the ground
than on the management of the trees. Tho writer than on the mauagement of the trees. Tho writer assumes that the Euglish prune thoir trees to mako
them grow, without cousidering ang legularity of them grow, withont
form or size of fruit.

IIo recommeads pruning to obtain symmetrical trees and large frult, bs recoguizlag the character of the difforent branches; as, fur instance, whether fruit bearing or wood-bearing, and treating them accord ingly, in cpposition to the ssstem of treating allalike, which to calls the old systom, and speaks of it rather as "pruning without system" The old plan leares Nature to form wood or fruit branches at will; le would so conirol Niature as to form either at pleasure Ir. Iiovas Locroos, Stamford: On the variations e
licted by crossin.
tho sceds of Peas.
Tho sceds of Pecimens exhibited were selected for the pur nosi' of exhibiting the variations produced by cros: ing, in the colour and character of the seed of l'eas in the second and succeeding generations.
The results of experiments in crossing the l'es tend to show that the colour of the immediate offspring seed or second generation, sometimes follows that of the female parent, is sometimes intermediate betseen that and the male parent, and sometimes distinct from boik; and although at times it partakes of the colonr of the male, it has not been ascertained by the experiment ever to follow the exact colour of the male parent. In shape, the seed has frequently an intermeliate character, but as often follows that of either parent. In the second generation, in a siagle pod, the result of a cross of Peas, differing in shape and colour, the sceds therein are sometimes all inter mediate, sometimes represent eithe: or both parents in shape or colonr, and somolimes both colours and chatracters with their intermediates appear. The re sults also appear to show that the third generation or seed produced from the second gencration, or im mediate oflspring of a cross, frequently varies from its parent in a limited mannor-usually in ono direc tion only, but that the fourth generation produces numerous and wider variations; the secd often re verting back partly to tho colour and charactor of its ancestors of the first generation, parly partaking of the various intermediate characters and colours, and parly sporting distiactly from any of its ancestry These sports appear to become fixed and permanen in the next and succeching gencrations; and the tendency to rerert and sport thenceforth seems to be omo checked-if not determined
The experiments also tend to show that the heigh of the plant is singlarly infaenced by crossing ; a cross betreen tiro drarif Peas commonly producing some dwart and some tall, but on the other hand a
cross between tro tall l'eas does not exhibit any tencross between tro tall leas does
dency to diminution in height.
No perceptible differenco appears to result from crersing tho parents and applying the pollen of the female to the variety proviously emploged as the male hower.

## Summer Treatment of Bulbous Roots

The following description of a mode of treatunent of hyacinth and other balbous roots during the snmner months, in order to easure a full bloom nex pring, by Richard Adic, Esq., Lirerpool, was read at a mecting of the Edinburgh Botanical Society, on the 10ih ult. :-
The treatment I am about to describe was designed in consequence of an obserration I made, that after a wet cold summer a largo number of hyacinth (Ilyacinthus oricnialis) roots did not flower ai all, althongh for scyeral jears prefious they had flowered moderately well. The roots, to look at, appeared good, but their vitality was low; they wero alow to pat destruction and this mas all they did in their scason of active growth.
In the native soil for the hyacinth the bulb is exposed to summerdrought and sun-balied carth during what is technically termed its dead season, so I honcht if I could msieg a summer 10 them to resem blo their native one, I would get the desired vitality acxt spring. The first trial mado wrought such clange on tho roots that I hope a short notice of it
may prore of ralue to thoso interested in the culture may prorc of value to those
of our finest spring fowers.
IIjacinth roots are liftod when the leares show ympioms of decay, about midsummor day. At thi scason the forcing pit is not in use, and I thought it rould answer my parposo to imilate, in 80 far as heat and droughtaro concorned, an easiern summer. I placed tho bulbs in the sand which had boen nsed for striking cuttloge, and lighted the fro under them
twice or thrice a week, in order to keep the tempera: ture of tho sand near $80^{\circ} \mathrm{F}$. , which was continued for six weeks. 'Tho hyacinths wero then removed and placed in a dry attic on a wooden floor in ono nstanco; in another they were suspended in a net or bag in a warm inlabited room, where gas burned till midnight.
The effect of this treatment was to mako a marked change in tho character of the growth next spring; very root, small or large, flowered, and the older voots appoared to malie efforts that exbausted them, for they sent up many heads, and thus separated the bulb into parts. In tho heating process, moisture is fredy thrown off from the plants; this it is desirable 0 get rid of by active ventilation, for if not so ntended to, there is a tenciency in the byacinth bulbs to decay.
The polyanthus marcissus (N. Tazellus) I have roated in a similar manner. After heating in tho pit, I kept them for the remainder of the summer and autumn in a very dry warni placo, so much so that the party in charge of them said that ho thonght thes must bo well cooked. Yet they have flowered this pring trith as large full heads as can be desired; one varicty had just a little too much vitality imparted to it, for in the open air it had a large head above ground in February, which the March frosts destrosed. In them I consider the change wrought by summer heating to be more evident than in the hyacintos, for I have never found our summer to flower the poIyanthus narciseus with any degree of vigor like the roots imported from Molland until I treated thom as abose described, which has brought roots that havo beed grown fur sume years in this country to be cqual to the imported ones.

For ather bulbous roots or plauts that remain in山eir natife country in an apparent state of rest, or dead seasun, as it is styled, while the soil is baked or scorched ly at powerful sun, summer beating in a forcing pit will for this climate be found idvantit geous, and the system may sdmit of extension, it it be varied to suit the diferent habits of the plants to bo treated. For example, the narcissus bulbs admit of a greater degree of drying than would be good for tho hyacinth.

In secds, a process analagous to the abore is, I beleve, well kuown to promote their vitality, and is practiced in malting, where vigorous growth is so much wanted, the plan being as I am juformed, to dry the grain by a carefully regulated heat prior to damping and springiag.

## Plants for Rockeries.

Wise rocheries come to be properly treated, we hall see numerous interestiog plants of tender constitution adorning them by the adoption of the rery simple process which I follow of planting out in spring and removing before winter. I fowrer my large collction of desenbryantinemums in this way or rather in a way much more simple than that. In April and May I plant surall specimens in suitable places; 1 learo them to grow and tlorer as they please ; and it is astonishing how they do grow mhen put out, instead of keeping them in pots. In July or August I take cuttiugs of all the sorts, pot them four or tive :a a pot, put them aside in a batch together in a shady place ont of doors for a month, and then iransfer them to a top shelf in agreenhouse, or a bed of coal ashes in a frame. They grow tremendously all tho antumn, and are potted into separate pots when conrenient. From this stock the rockers is again fardisbed the next spring, the plants of the pre vious year being allowed to perish in situ. Probably many of the great tufts will live the winter through Collections of succulents could be grown by thi method to much greater perfection that by pot culture alone, and we might hare some konderiul pic tures by grouping on suitably built rockeries such things as Crassulas, Portulaccas, Aicsembryanhemums Scmpertilums, Echevcrias, Rocheas, perhaps oven Sla pelias and a fer otber of those interestiog subiects that we occasionally meot with in the dry store of on amatenr who leares fashion to its ephemera, ragaries, and follows for bis own joy that which is alvage truc. and which therefore is always good. Let me com mend the following as indispensable eren in the smallest collection:-Sempervizum teclorem tho common bousc-lcok ; plant this in rich soil (it may ho balf cow-dung and balf loam), on a surface of brick, lile, or stone, in the full suis, allowing a good peck of soil in a heep for it; one cropn to begin with is enough, but better a good patch, as there is nothing like immediato effect both in planting a park and a litilo rockery. S. arachnoideum, tho spider's meb houscleek, Fill grow well with positircly no soil at all. It is then intensely whito with tho spidery threads but does not flower co freely as when grown in rather rich soil in pots. S. flagelliforme rather scarco, it is extremely beautiful, and Howers frecls scarco, it is extremely beautiful, and tiowers frecls
grarel walk is the sort of soll to sait it if in an cheraced position and fully exposed to the sunt. Si neditirath sucll tuown, and a great favorite in lae cottape gardens. S. hirtum, S. mondanum. and S. culifornicum. are mach alike in habit, of medinm growth. :und all well adapted to form grear carpet-like masses in the duwergarden, or to be used as edgingrianila ry to the bedding system. S. pumilum is a very pretty little species, very susceptible of damp, and therefore requiring to be made secure against the accuma lation of atagnant wet anywhere near it in trituter time--Miblerd's Gardener's Magazine.

## The Barberry Hedge.

Ons of the wants of the agricultural copmunity at the present time, is a good liedge-plant ; one that is reliablo under all ciroumstances and conditions. Learly every one that has been tried thus far, has exbibited some radical defect, that unfis it for the purpose.
A tedge-plant to become popular, must lie perfectly bardy, and easy to proparate it should also without manure. It should be thorny, to kerp catte from hooking it, and stronfe enourh to keep them from hooking it, and stronf enourh to keep them
from breaking through it. Finally, it chanta he low from breaking through it. Finally, it
cnough to require lithe or no pruning.
The common barberry, (Berberis ralyari) combines these qualities betier than any plant thit 1 am acquainted with. The barberry is a nume ut lave northern part of Europe and Asia; but has become thoroughly naturalized, and is nuw tound growing wild in the maste grounds of Seu Carhame It is. reazarkably hardy plant, thriving well in at great variety of soils, and is said to live for centuries. It hasa shrubby habit (growing fromsin to te:a feet it hasa shrubby habit (growing from sh to ie:a feet its height, yellowish, thorny wood. leases in rosetes,
yellow flewre on droping racemes. and scarlet yellow flowrers on droping racemes. and scarlet
oblong berries, very acid, but making dedicious pre serves.
We have a barberryhedge on our grounds at
Wallingford, Ct, 25 rods long, and 9 gears old foun Wallingford, Ce., 25 rods long, and 9 years obd, fobly the secd. Two rorss of plants were set, the rows one
foot apart, and the plants one foot npart in the row and set alternately, to break joints. This hedge hisbeen clipped a little, two or three times, to herpicren. and is now six or seren feet high, with a firm. compact base, perfectly impervious to the smaller ammals. and stout enough to turn ordiasty fur
stock. cxeept for a short distance at one end where stock. except for a sh
the soil is guite thin.
the soil is guite thin.
On vur grounds at Oneida, we have a barberrs tedre 50 rods long, and seven years old, from the seed. In this case, but one row was plamed. and the plants were set one foot apart. It has bern hepl clean with the cultivatur, and clipperl a hit. le, unce or twice, and is now flre feet high, thit $h$, nd compact at the base. and already so strong that the fence was
taken aray last fall, learing in its place only a sligh. tahen aray last fall. learing in its place only a sligh.
railing of a single board, six or cight inches wade, as railing of a single board, six or eight inhes whe, as
a temporary guard until the hedge can gain another a temporary guard until the hedge can gain anotter
gear's growth, it being situated on a highway where cattle are passing daily. An important item in regard to this planit is. its babit wis send.as up suth ers from the bottom, by which, in a fow 3 e.ons, 11 comes to hape a base trom six to twelve inches in diameter.-Wallingford Circular.

## The Fruit Garden.

If large fruit is wanted, thiming accists. Strar. oerries are increased in size hy watering in redry tim. Fruit should be allowed to bear oaly acenrditg to their strength. If a transplanted aree grorss Irecely it may bear afew fruits-but bear in mind grow
and great fruisfulness are antagonistic proce-s's. and great fruitfulness are antagonistic procersey
Handsome forms are as desirable in fruit as in ornamental trees No rinter praning will do this ox clusirely It may furnish the skeleton-lint it ia sum mer pincting which clothes the bones with beanty. A strong shoot soon drairs all its nutriment to itself Aever allore ono shoot to grow that wants to be big. ger than others. Equality must be insisted upo:s. Finch out alrays as soon as thes appear, sirh ins Rould push too strong. y ahead, and keep doinir so
till the ner buds seem no stionger than the others. Thus the food gets equally distributed.

Whether stramberries sbould have runners cut of oepends much on kind and soil. Free growing kinds may grow too freely ofien in rich soils, Allowio: them to exhaust themselves and the snit lis growine thick tozether iy an adrantage sloyer growing hind. would do no good under such treatment, Moot garden soils are rich; but on the whole the most profiIf theru be any blackberry really e.rlier thith the Dorcherstor, it will be well for those tho love thas frait to look out in turac, and satisfy themselres. They will be in bloom about the end of the month in They will be in bloom about the end of
very carly place.-Gardeners' Aondhy.

Mhack Warts on I'licm Thers- 1 Revedr.-It is inw 30 grara sine" I sis! ont plum trees in my garden, when the beean to blo-som black warts began to grow, and in three or four years all were dead. After that I procured ten trees of a murseryman and se: them, sunt when they began to bear, black warts thule theis apporamin liaving seen an account in the Cultisator, that iron turnings, if applied to the ground ruund the tree, would stop their growth, I tried them I procured a quantity from a machine shop, appled about a quart to a tree, hocing it all ronnd, two feet from the tree ; at the same time, (it ras spring ) remuved the black wart ; i dd not see any muti, , seept tro or three which I supposed escaped my nouee at the thee of the application, for mare thin 12 gears. The trees after beariag firstsith, havemostly gone to decay, three only remaining. This last adumn I discovered a few narts on one of the remainiag trees. The account above alluded to said, if a few unils were drisen in the gruad would ansirer the same purpose. D. Fisher, in Boston celficator.
How to Grow a Pear Oncmand.-There is but one way tu grow up a good pear orchard. The best of land and the lest of cultivation is necessary to success. If it is not a deep. rich loan, or clay and lnam. Iree from subsoil or cold mater, it must be made su. or tae enterprise will prove a failure. Dwarfs should be buded low on the quince stock, to avoid setting ton deep The roots of the trees require the suh und dews as much as those of corn, without which the trees will grow to suckers, ill-shaped and irregu lar-the frut mspind and variable. ingtead of sweet . And delaciulls. and lead you to wonder why yonr trees is nutumn when the sum ases frometel to the subsoit under the roots, a rapild flow of immature sap is forced into the tree, at a tuine when the sun has passed too f.ar south to claborate the sap into woody fibre or leaty $t$-sule. The frosts of winter disengage the meetanical organim of the particles. and the first warm, sunng days of spring set it in motion to the detriment or destraction of the tree.

## eqtiscrilaurous.

## Latin and Labor.

Jous Ibams the second I'resident of the Gnited Stateq, used to relate the tollowing ancedote:

- Whe: I was a ling, I had to study the hatin grammar . Lut it was dall, and I hated it. My father was ansions to send me to college, and therefore I studied the grammar. till I coulal bear it no longer, and ambe to wh tahn I toh ham I dad not lhe to stads.
 sme lus wolles, and he was quick in his answer. Well. Juhn if liain grammar dnct not suit yoi, yuu may try dachne perhap that will, my meadun sonder needs a duhla, and 5018 may put by hatin and try that
- Thes seemed a delightral change, and to the
 Thath Latin, and the first forchoon was the longest ruer experanced. That day I ase the bread of labour, and ghat was I when nivit came on. 'Ilat night I made some comparivon betweea hatin Grammar and ditehing, but s:idid no: a word about it. I dug next fore:mon, and wanted to return to Latin at dimer; but it w.s bamiliatises. and I could not do it. At night. ton conglared prite ; and though it was one of the si wrout ratis i iver hat ming hife, I told my father that if her e orr 1 woull go back to Latin gramuar. Ile was ghat of at; and of I have sance gainud anv distinction. it has been owing to the two davi labour in that abumanable dach.
iboys may learn several imporiant lessons from this ctory It shuws bine lit in thing ofterimes appreciatit therr pririluges Thour who are kept at stady frequently thok it a hariship needlessly imposed on them. Buat hey mast do something ; and if set to ditchng, woutd ting here that ang bester? The opportunity of pursuing a liberal course of study is what fon cojoy; add cher are ungratefal who drate themselves to it as an intolerable tasi. Yon maty also learn from this anecdote how much better your parents are qualifind to judge of these things than yourselreg. If Joln ddams lad contioucd his ditehing instead of his Latin, his name wonld not probably bave been knonn tu us. Bat, in following the path markel out by hiv judicious parent, he rose to the highest honurs whith the country affords-Rural Xeso lorlier.

Thiner Misainevent - The dimeny:ons of romme timber are fomel by girtin: the log. and taking one quartur of the girt ine the side of the square. Mence the rule. Bulnply the square of onequarter of the circumferenco liy the length of the timber, and you bare the contents of the log or tree. $^{\text {a }}$

How to dfstror Rats.-Tho appended method is said to be an cxcellent means of destroying rats in a house:-011 of amber and ox-gall mixed in cqual parts. added to thits o.t meal and four sumicient to form a thin paste ; duride into little balls, and lay in the middle of the apartment iufested. Theso balls "ill torm an arresisubly atractive bait for the rats, who ravenously eat them, but will immediately be seized with intense thirst Sereral ressels of water enist be land clow bg. at which the rats will drink till they die on the sput.-Builder.
Ficre Wormil Remeybrma -" Cosmo," in the 1'hiadelphia Suturlay Erening Post, gires the following facts worth remembering
It is worth while, for all firmers everywhere, to remember that thorongh culture is bether then threo morigages on their farm.
That an offensive war against weeds, is fre times less expensive than a defensire one.
That gool fences alrays pay better than larsuits with neighbours.
That hay is a great deal cheaper made in the summer, than purchased in the water.
That a horso who lays his cars back and looks lightning when any one approacles him, is vicious. Don't buy lim.
That scrimping the feed of fatting* hogs, is a waste of grain.

That orer fed fow's won't lay eggs.
That educating cbildren is money lent at a hundred per cent.

That one evening spent at home in study, is more profitable than ton lounging abnut conntry tarerns. That cons should alrias be milked regularly and clean.

That it is the duty of every man to take some good, reliable, entertainints paper, and pay for it promptly of course.

Srowgrs.- It may surprise the reader to be informed that the quantity of sand he finds in a neve sponge has not been inclosed there. by the animal or regetable during its grw th, but is an adulteration prac tised by the agents and merchants who purchaso the sponge from the di, ers. in order to increase its weight amd their profit. I have seen. in the islands weingt :tal Calymo, and Khalki, as well as elsewhere, of Symi, Calymo, and Khalki, as well as elsewhere,
the recenty arrived cargors of eereral sponge-boats undergoing the process of adulteration before pack ing. The sand having ween i:mported from some spo known to yichl it of the fineness requisite for the purpose, is mixed with water, in which thero is a little gelatiae or gam to carble the sponges to tako up and reain it the better, and without being detected afterwards: the sponges are then well kneaded into th, 40 as to fill up theyr minuto pores; they are then drued in the sun, and packed very closely to gether in goat's har sacks, of an open texture, tha. the s.md, as it hecomes detached from the sponge by the mo:ion of their transit. may escap. In this "ay a hundredwenght of sponges in their dry state will be so sanded as to weigh more than a ton before they are packed for exportation to EuropeTratds and liescarches in Crcte.
eartry.

## Progress.

Strapile, steadity, stenbeg sten.
I'p tho ventu ons builliers ao: Caref iny antug stone on slobe
Thus the dofuest temples grow
Patimbtr, pathenits, das ty day Tho aratit to lsa: hios ta-k away: Thachang it hen abdintiog th there,
Gowngit werwath matice caic, foring it everwith mintite cate,




This-whit the gket-lour ancer hour nut rige th lity foul; thound wita magic power tle ucases thear melody int r rigzaex slowly; card dy, worlliy wod. La bos lise, and thought by thought. Ie lastrus the goiden tisutu of tiong
ficery w oobserser knomp.
Fwery walruft gazorsect.





 Il utmerdasit or hart a wransumotume
 foel ticy patienty at thelrtask loczun: Th tol thro the clouds hrokn the moming light,
What blitese on the soal when surcess is monit

## Reapers, Mowers, Combined Machines, \&c.



TIE subscribers woult respectfully call the attentlon of the farming community to their IHEAPING AND MONFING MACHIXEA, satlefaction.

THE CAYUGA CEIEF JUNIOR MOWER.
This Jachine, for cheapmess Hahtaese of draught, durnhity and conventore, bas prored itself, aftre threo ycars' tilal, the best






A tabio for cuttiog short or lodgod wartey may be atanehed to this alower, at an exira charge of aro tullara
Wo tako plazsuro to oftertog to the pubic our weil-known

## OEIIO COMCBINTAD MACIETNE,





 So pine sjeral atwotion to tho madufacture of SIFFI, siot
July 1. 1 Sco.



## SFIEEP MARKS.

the attention of woul ghowers is mitited to a New and improven method of manking, nlubering and registernig suber, inthodiced by C. IL DLid

THIS method onnstste Inathachiog a label to the elieep's car, as reprosented with in the cut Theno labels aromado of 1 fog wire rolled gat, and wasled rame ordered ind-d with numbers from 1 upara to a l,000, and whid acy the cut in ring do. 1 It is atrached to the sbeep by pasclog it through a hote pancturd the the ear, then the long end ts to bo bent down fith tho alion the fabel frum the eutro or tho car, that when tho ring is closed it may bo fillet by the ear, huspreveatiog tifrom turniog ta tho car, or the liablity or catching in the ba-hes
The tatin may to put in at the timo of punciling tho holo, and, if properly adjusted, is cnutely rreo rom objection, and is suporior in ercry respoct to the mind mark in general use.
 ogures appiled ing incans of palnt afier a brtef thmo become indistloct, and ditticuls ur impmanino 10 real.
It is thore convcricat. It can bo applled at any itra, while tho palot natk mast be apgited immulatels afier straring, thus occupying raluablo ime is
inctumetris and bo application of paint or tar.
Tho many latictag testmonials daily recelred from the thoneanis who aro now using theso tabels, shom that rhillo the name on the
 opelanj 1 accoropany theso 1 ants)
 of gecce, and rantous other items important for ono 10 noto shis smith inprove his hock.
to those o. were a 100 or maro latels, are arranged to deep reconi of a flock of 100 for one yair.
Spring Punctime, mapufactured for punchiog tho car, with tuto dited to tho shippo ur tho wira, and guaged to reach just tho rigbt

Doublo Spifng Too show, a superior articio for trimmlag sicop's tocs.

Cun stamp rholo pamo, if not moro than aino letters. In sendios ondors, tho gamo should bo writtorn with great distanctacs, to arold mistakes
Mosey sbould accompany tho orders for cach of the aboro artcles, and may be eent by mall as my riak in registerod letters.
a5 Agcnts wanted in over Tornsblp to solleft orders, to whom a liberal disconnt will bo mada

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and ald intelingent agriculturists.

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## THE undersiguel hare arrasged will tho British Ageats for the

 rim tona cal be obtaincelAfith decassary that tho cargo should bo arranged for os 8000
 Toe prico will wo $\$ 58$ per ton over shlp's side, or $\$ 60$ If nequired o bo stored beforo taken.
A.W COTV C D CLARK \& CO.

Torouto, July 1, 1360

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$\mathrm{S}^{00 \mathrm{~N}}$ after date of July 1 st wo shatl be prepared to all ondors S for ITAILIAN QUKz.. DEES Uur stock is or tho drst quality onco bivo dollars cach, ibo cashio J. Ii. THOMAS \& BHOS,

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Broorlay, C. W:

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ther many prizes aro tho followiog:-

Fint Prizes at Proriactal Exhblitin in Torontn.. In 1858
First prizes at lrovicatial Exhinhoa to kinistoin. In 1859.

First lrizes at Proviacial Exhibition in Inndor. . In 1861.
Did not exhibith there being no compethion at tho 150


3!cdal and Diploma for First Prizes at the Prorlactal Practical Test Exbibition, or grapd special trial or Agricultural implements at work, held under tbe diection of the boand of dyricoliure on 3r. Lofan's fam, bear sodircal, in Augush. 1839, h1 vhlch ibese atit atpes rom como or tho best makers io Now Yort, Vernod and otuers or the Lintod tiates.
The I'roptictors haro ation the hite $r$ to stute that theno Toots obtained tho firet l'rize ar taz llokith baik of Fixitution of ath dations in loadon, Ermiand. In 1862, wim wimethev now hold ho birozze yedat. Als. First lotize ant bietal at the 'n ernational
 commeded
ato prica."
Catation 10 Frimaers.-As every 1001 of this mato is corourio relable, purcuaters sh,uhd alanars bo parricular in mate certala of soitiog tie genuluo articto.
r3 3-mict 18 .
Onhawa, C. ir.

## REAPING MACHINES!

## THE NEW YORKER!

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