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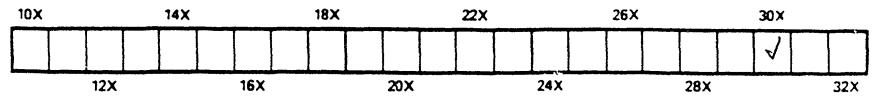
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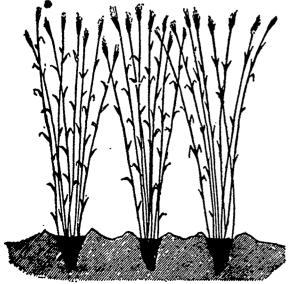


A Combined Drill and Cultivator.

We herewith present our readers with an illustration of a very useful implement, or rather two implements in one, invented and patented by Mr. B. W. [committed his seed to the soil in the most approved will he obvious, on a little reflection and calculation,

WALTON of Kettleby. The Cultivator, as a separato Machine, has been in use for upwards of three years. It is therefore pretty well known, and, if desired, can still be obtained from the natentco without the sowing apparatus. The patent of "The Farmer's Friend," as the combined implement has been aptly designated, bear + date, July 15th, 1865. A pretty numerously signed testimonial, which Mr Walton has forwarded for our inspection, states that the implement works in a highlysatisfactory manner; that it is of a comparatively light draught, and may be managed by one person; and that, bearing in mind, the iwo important opera-

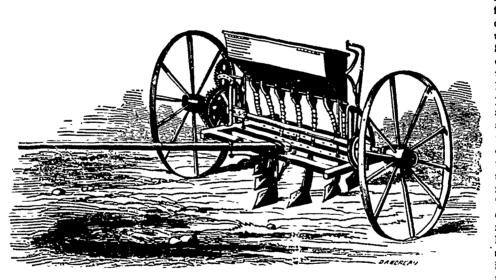
tions it performs separately or together, its price is | way, and under the most favourable conditions, many | the growth of drilled and broadcast wheat. The very moderate. The implement, we understand, will accidents and unforescen circumstances may diminish be exhibited at the coming Provincial Fair, and the the farmer's harvest returns. The weather and the price and any further particulars may be obtained of the patentee.



Drill and Broadcast Seeding

The sowing of the seed is manifestly one of the most important operations of husbandry. Much of the previous labour of the farmer goes for nothing, if the seed be not properly sown at its appropriate time. It is true that oven after he has done his hest, and

Experience teaches that harrowing is only an Imperfect method for effecting this object. The harrow buries some seeds too deeply, others not sufficiently deep, and a considerable proportion not at all. To ensure a full crop, therefore, the farmer is obliged to scatter an additional bashel or more per acre, than would be necessary, were a machine employed. It



that the saving of grain a lone, in the course of a few years, by the use of a drill, would warrant its adoption on every farm. Such machines not only deliver the required portion of seed with regularity, but deposit it at a proper depth beneath the surface. And as the plants appear in regular rows, weeds or thistles may be destroyed with facility, and the crop is thereby allowed to monopolize the entire nourishment of the soil The air is allowed free circulation between the rows, and a stronger and healthier plant, and. consequently, a heavier crop is produced. Our illustrations very fairly represent

seasons are altogether beyond his control; while the prevention of insect depredations is partially so.

Still, at the same time, it must not be forgotten that the measure of his success depends very much on his own persevering efforts, directed by judgment and skill. "If," says the author of the Dictionary of the Farm, " the farmer selects the best seeds, chooses the proper season for sowing them, and has them carefully distributed and properly covered with earth, as their nature requires for the most perfect germination, investment. and thus also prot ots them from

the voracity of birds or insects, he will have a much greater prospect of success, under all circumstances, than if he were careless or negligent." The most common mode of sowing in this country is by scattering the seed broadcast over the ploughed surface of the soil. By this process there is no certainty of the seed being uniformly covered.

cars of the machine-sown grain, it will be remarked, are larger, and the plants more uniform in size and height than those sowns by hand. The superior vigour and strength of that sown by the machine will be at once apparent to our readers, and its superiority is by no means exaggerated by the artist. The cost of a drill is, no doubt, pretty considerable. This circumstance will unquestionably prevent its rapid general adoption ; but the advantages to be derived from tho use of the implement, some of which we have briefly noticed in this article, would, in cases where tho requisite amount could be prudently appropriated for the purpose, more than compensate for the



Exhaustion of the Soil.

The extent to which the alimentary properties or nutritive juices of the soil are extracted or diminished by vegetables is, as a general thing, in the precise ratio of the size and weight of the crops taken off. Experience has long since demonstrated that, with respect to the cereals, the exhaustion of fertility is in direct proportion to the amount of actual nutriment which the plants, including the straw and grain, contain.

Wheat is, perhaps, more exhausting in its effects upon the soil than rye, and rye more exhausting than barley, and barley more than oats. This opinion is predicated upon the results of chemical analyses, although, we are aware, in direct contrariety to the opinion entertained by many practical men who consider oats a more powerfully exhausting crop than either of the other-wheat or barley.

According to the most elaborate and most highly satisfactory experiments of EINHOF, the different quantities of nutrimental or actual alimentary matter -for instance, gluten, starch, and mucilaginous sugar-in the different kinds of field crops, are as follows :

n Wheat,	l'er cent 78 70
Barley,	70
Oate	59
Lenuis,.	74
1°C3R	
French Beans,	85
Windsor Beans	581
Horse Beans	73

The amount of nutritive juices in these substances therefore, is as follows :--

	Weight.	Juices
Wheat,	D2 lbs.	71 76 lbe.
Rye.	56 "	69 2
Ba:ley,	82 "	48 6
Oats.	52 "	30 16
Peas.	100 "	75 6
Horse Beaus,	103 **	75.19
	-	

Assuming these data as correct, and allowing for the difference in the nature of the succulent con-stituents—which is very obvious to the chemist— as well also as in the stem and leaves of the respective plants, the entire series of experiments and examinations relative to the question under con-sideration, demonstrate conclusively that they have the following relative proportion, each to each, so fur as regards their exhaustive effects upon the food or producing power of the soil :

Hence we deduce the collary that-

6 bushels of rye are equal to 4.61 of wheat. 6 bushels of rye are equal to 8.58 of barley. 6 bushels of rye are equal to 12 of cata

We do not vouch for the accuracy of these as-sumptions; all we can say is, that they are remark-ably fortified and borne out by the most accurate chemical experiments which have as yet been made. If erroneous, science and experience are coually at

fault. If the conclusions arrived at are relied upon, and if they are correct, they cannot fail to prove of essential service to the farmer in the distribution of manure upon his several crops. It will enable him to proportion it to his various crops, more according to their several needs than he has heretofore.—Maine Farmer.

About Red-Root,

I was telling you last month that the red-root was so abundant in my summer-fallowed wheat that I intended to plough the land this fall and plant it to corn next spring. John Johnston has kindly written me on the subject. He says:

me on the subject. He says: "Since looking over the *Furmer*, I opened the let-ter to say you can not kill red-root with a corn crop. It will only vegetate in August and September, and, if warm, in the first two weeks in October, and in no other months of the year. If the land is pulverized in August, and ploughed in October or in April, you will destroy a vast quantity; but if a clayey soil this has to be repeated for several years before it is all destroyed." He says red-root has troubled him more on his

He says red-root has troubled him more on his

abounds, the plan is to sum are crop for some years, and this will kill it or so reduce it that it will not be much trouble to pull up what there is in the wheat.

It seems to bo a fact that red-root troubles no crop except winter wheat; and my plan for killing it was based on this fact. Treat your land in the fall pre-cisely as you would were you going to sow winter wheat, and then kill the red-root in the spring by wheat, and then kill the red-root in the spring by ploughing, cultivating, &c. If we had a machine to hoe our winter wheat in the spring, this would kill the red-root; but till we have such a machine, we must try to kill it, as Mr. Johnston says, by "sum-mer cropping," But summer cropping in itself will not kill it. We must, by harrowing or ploughing the land in August or September, cause the seed to ger-minate. This is the main point. After this is done the red-root can be killed by any course of summer-cropping that is most convenient.

I suppose a good plan would be to harrow the wheat stuble, (that is, of course, where the wheat is not seeded) as soon as it can be done conveniently after the wheat is off. This would start the red-root is not secured) as soon as it can be done conveniently after the wheat is off. This would start the red-root seed about the midule of September. Then give the field a good ploughing in the fall and sow it to bar-ley or oats in the spring. Instead of this course, 1 purpose, in my own case, to plough wheat stubble in the course of a week or two—ploughing it not very deep and harrowing it afterwards. This would cover up the stubble, grass, &c., and start the seeds of the red-root. Then, sometime before "snow flies," give it a good, thorough, deep ploughing, and leave the land rough for the frosts of winter to mel-low it. In the spring, plough again, harrow, culti-vate, &c., and plant corn. Then if the cultirator and horse-hoe are used freely, there will be little need for hand-heeing. Such treatment will not only kull red-root, but will destroy other weeds and leave the land in splendid order for sowing barley the next spring and seeding down.—Genesee Furmer's Welly.end Telly next spring and Walks and Talks. and seeding down .- Genesee Farmer's

GROWING TIMBER .- " I want to tell my story, which I know to be true and perfectly correct, as all the parties are to me well known and of unimpeachable veracity. The scene is in Berkshire county, Mass. A boy reaped wheat in a field-that boy grew to be a man, and lived to the ripe old age of 82 years. Before he died, he sat in his chair and saw a neighbour of his from day to day drawing saw logs to the mill. This man drew, had sawed, and sold 152,000 feet of lumber, and all from 3} acres of ground upon which the old man when a boy had reaped wheat The timber was mostly pine, some oak. I believe pine will grow as fast here as that."-HAWE-EVE, in Country Gentleman.

DIEHL AND SOULES WHEAT, &c .-- John Johnston, under date of near Geneva, Aug. 23; writes the Country Gentleman as follows: "I have got one barrel of the so-called Dichl select wheat, and I shall be much disappointed if it is anything else than the Soules wheat, which I have grown ever since 1811. I sent many hundred bushels of it to Indiana and other Western States, a number of years ago, and often thought it would be well to get some of it back, thinking it might do better than that grown in this State for the last 20 years. The only difficulty in raising Soules wheat here now is, that almost every year it turns all yellow in April, and if warm growing weather don't immediately set in, it never recovers, and makes a poor crop. Sowing after the 20th September is generally a preventive, but that of late years is thought to be too late.'

WHAT WERE CANADA THISTLES MADE FOR ?- For the double object of cultivating the ground for man's use. and compelling man to cultivate the ground for his own benefit-to banish idleness, the scourge and curse of humanity, high or low, rich and poor. The deeply penetrating shouldcred roots of the Canada Thistle search all the ground for life and growth, and bring to the surface in successive seasons, vegetable matter, which, decaying, enriches the land, and thus prepares the way for the husbandman. The tiller of the soil must then banish the preceding elaborator, and show, by his industry, that he is worthy to succeed; and, also, that he is willing to occupy the land from He says red-root has troubled him more on his which he seeks to disposess an occupant, appointed farm than any other weed. He has paid \$500 for by the Creator to hold possession until carth's right-pulling and hoeing it out of his wheat. He conquer-ful tenant evinces sufficient faith and patience to ed it at last, but it took many years. Where it subdue it.—Cor. Country Gentleman.

A WONDERFUL TREE .- In the birch wood of Culloden there is a remarkable tree, well worthy of note. Somewhere about thirty years ago a little glant of the forest was blown down in a storm, and fell across a deep gully or ravine, which it completely spanned, and the top branches took root on the other side. From the parent stem no less than fifteen trees grew up perpendicularly, all in a row; and there they still flourish in all their splendour, while the parent stem evinces no token of decay. Several of the trees are not less than thirty feet high. The tree is a larch fir.-Elgin Courant.

THIN SEEDING .- The following quaint bit of experience and wisdom is from Sir A. Fitzherbert's "Boko of Husbandry ." "There is a seed called Discretion; if a husbandman have of that seede, and mingle it amongst his other corne, they will growe doubtless much the better, for that seede will tell him how many casts of corn a land ought to have. And if a young husband, or, it may so fortune, a man that by possibility might have grey headed experience, hath not sufficient of that seede, yet he that lackoth, it is lawful for him to borrow of his neighbours that have, and his neighbours be unkind if they will not lend this young husband part of their seede, for this seede of discretion hathe a wonderous virtue, for the more it is cyther taken of or lent the more it is. Now, discretion is that part of good conduct which takes wary account rather of the difficulties, risks, and dangers of the way than of the object or rewards of the journey; and it is, we think, a fortunate circum-stance that in one of the earliest specimens of ' book farming' in our language, it should have been desired that the 'young husband' do mingle it with his ' seed much the better, for that seede will tell him how

CANADIAN WHEAT GROWERS .- You may think it strange, but I question if the best farmers in America are not to be found in Upper Canada. They beat us in raising wheat; their barley is certainly superior to ours in quality, and I think the same is true of oats. In the cultivation of root crops we are nowhere. Don't get angry. We beat them in raising corn-and in all crops which partake rather of a commercial than a strictly agricultural character. We are willing to raise small crops if we can get large profits, while a Canadian farmer, partaking largely of the Scotch and English conservative character, continues on in the even tenor of his way. He is not so constantly looking for some casier method of earning a living. He is a farmer, and his father was a farmer before him, and he intends to live and die a farmer. If the midge destroys his wheat he does not, as we did in this section, propose to turn the whole country into one grand apple and near orchard. He looks out for some variety that will ripen sufficiently early to escape the ravages of the insect.

I have often remarked that where a new kind of wheat has been alluded to in the Genesee Farmer, it attracts more notice, ten times over, in Canada than in this section. A few years ago I induced some gentlemen to contribute a few hundred dollars to get gentemen to contribute a few hundred donars to get up a wheat show. We offered largo premiums and managed, by personal persuasion, to indice a few farmers to show their wheat. The affair was essen-tially a failure. Had it been a big pumpkin show, it would have been a grand success. The entries of wheat at the Provincial Show are three times more numerous than at our State Fair, even when held in the centre of the wheat-growing districts, and the number of people which crowd around the samples, shows the interest which is felt in the matter. The Deibl wheat, advertised in the Farmer last month, attracted at once the notice of Canada farmers, and

attracted at once the notice of Canada farmers, and one of their agricultural societies sent a delegation to Indiana to inquire into its merits. They were so well pleased with it that they purchased *eight hundred* bushels for seed. Such enterprise is commendable. No wonder they beat us raising wheat. This Deild wheat closely resembles the Soules, and I should not be surprised if it turns out to be this variety. Its chief merit is its carliness, and it is probable that this quality is due to the fact that it has been grown for several years in a more southern latitude. There can be no doubt that, so far as carliness is concerned, we should get our seed wheat from a more southern rather than a northern latitude, and I have no doubt that should this Deihl wheat prove to be the Soules It will ripen earlier for two or three years than the Soules grown from seed raised here.—Genesce Farmer's Walks and Talks.

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The Canadian Crops of 1865. REFORTS OF THE STATION MASTERS ALONG THE LINE OF	SARVIA -Grain crops are all good and will yield well, piolably s'x times that of last year. Root crops are excellent.	Barley is the best crop ever known. Root crops are
THE GRAND TRUE RAILWAY BEEFFALO AND GODERICH DIVISION.	CAMLACHIE.—Very fair crops of fall and spring wheat. Oats, barley and rye are splendid crops. Potatoes, good; turnips, delicient.	generally good. OsuawaWheat crops, good and abundant. Bar- ley, peas and oats, good Root crops, very moderate.
GODERICH.—Fall wheat has suffered from the midge ;	PARK HILL -Wheat very good, as are also oats and peas. Root crops are excellent.	BOWMANVILLE The crops of all kinds were never better. Farmers are quite satisfied.
yield, 16 to 18 bushels per acre. Spring wheat, oats, barley and peas, considerably over an average. Root crops promise well.	Alisa Crato.—The staple produce, spring wheat is a full average crop. Turnips and potatoes are good.	NEWCASTLEFall and spring wheat below an average. Corn and roots about an average.
CLINTONFall and spring wheat quite an average. Barley, peas and oats, very good. Root crops are	LUCAN.—Crops are above the average of the last three years. Twenty thousand bushels of wheat ex- pected to be shipped at this point.	
good, and flax promises well. CARRONBROOKSpring wheat will average 25 bush-	LONDONFall wheat, spring do., barley, oats, and root crops are above an average,	PORT HOPE. — Wheat, a large yield and good sample. The harvest, altogether, is more abundant than for some years past.
els per acre—but little fall wheat. Splendid crops of oats, peas and barley. Turnips will be moderate, having been injured by the fly. Hay crop could scarcely be surpassed.	Sr. Manr's,—Fall wheat, fair crop ; spring do., a fine crop. Coarse grains will yield magnificently Root crops are an average. Flax, a very satisfactory	ConcrucGood crops of fall and spring wheat. Coarse grains have turned out well. Root crops, good.
MITCHELL.—The crops, on the whole, are above an average. Fall and spring wheat both slightly injured by rust. Peas, oats and barley, will be an excellent crop Root crops look well and promise a very large	сгор. Stratford—Fall wheat, 20 bushels per acre; spring do. 23; peas, pretty fair, roots, abundant.	GRAFTON.—Fall and spring wheat, a good average Barley and oats. very fair. Root crops, good. Flax, a medium crop.
yield. TAVISTOCE-Fall wheat has been injured by rust.	SHAKESPEARE.—Fall wheat, scarcely an average; spring do., above an average. Peas, oats, and bar- ley, are very good. Root crops are very light.	BRIGHTON.—Large crops of fall and spring wheat Coarse grains also good. Root crops, excellent.
and its yield will fall below an average. Spring wheat only moderate. Oats a splendid crop. Peas and Barley, quite an average. Root crops are good,	BAUEN.—Fall wheat below an average ; spring do., barley, oats and peas, are all fine, both as to quantity and quality. About 800 acres of flax in this vicinity.	BELLEVILLE.—Fall wheat, 25 bushels per acro Spring do., 15. Barley, 25. Ryc, 20. Oats, 30. Peas 15. Potatoes and turnips, good.
with the exception of potatoes, which, in some places, are affected by rot. PLATTSVILLE.—Fall wheat rather below an average crop, with a probable yield of 18 bushels per acre.	which has turned out a fine crop. Рытелявила.—Fall and spring wheat will yield very moderately. Oats, barley, rye, peas and root	SHANNONVILLE.—Fall and spring wheat will average about 25 to 30 and 20 25 bushels per acre, respec- tively. Coarse grains will average 30 bushels per acre.
Spring wheat is a very poor crop. Barley, oats and peas, are very good indeed. Root crops promise better than for some years past. Flax is very little sown, but looks well.	crops, about an average. DooxFall wheat below an average. Corn is good. Oats, barley and peas, will be above an average. Root crops, very good. Flax, very fair.	TTENDINADA.—Fall wheat, good. Spring do., not quite so good. Coarse grains are very good. Roof crops, do.
DRUMBO.—Fall wheat will be an average crop and will probably yield 18 bushels per acre. A large breadth of oats, peas and barley was sown, which	BERLIN.—Fall wheat, owing to the midge, will only be two-thirds of an average crop. Other grains promise well. Flax is much sown and will yield	NAPANEE.—Fall and spring wheat crops are mod- crate. Rye and barley, very good. Root crops a complete failure.
will give a large yield. A large quantity of flax sown, which is an excellent crop. Hay : a heavy crop. Root crops will be light.	Splendidly. BRESLAU.—Wheat, a fuir average crop ; root crops,	KINGSTON.—Fall wheat, a great crop. Spring do., an average crop. Barley, oats and peas are extremely good. Root crops, very fair.
PARIS, C. W.—Fall wheat has suffered from rust and the midge, and the yield will be under an average. Spring wheat will yield poorly. Barley is largely cultivated and will yield well. Root crops, generally	good ; very little flax grown this year. GUZLFR.—Fall wheat will be under an average ; spring do., is expected to yield fairt Peas and oats will turn out well. Root crops generally have a good	LANDSDOWNE.—Wheat crops are good. Barley, oais, peas and rye, are excellent crops. Every pros- pect of a good root crop. MALLORYTOWN.—The cereal crops are generally
speaking, are poor. BRANTFORD.—The crops in this district are generally	nppearance. Roczwoop.—Fall wheat will be only half a crop ;	good. Root crops have suffered from drouth.
per acre. Oats and barley are good, and will yield well. Root crops are generally good.	spring do., an average crop. Coarse grains will yield about 40 bushels per acre. Root crop promises well.	Lrx.—Fall wheat, none, spring do., less than here- tofore. Hay, double that of last year. Ryc, oats and barley, good. Root crops are poor. The decrease in the wheat crop is owing to the weevil.
CALEDONIA. – Fall wheat will average 25 bushelsper acre. Spring do., about 16. Peas and barley will average 30 and 35 bushels, per acre, respectively. Root crops, below an average yield.	root crops, do.	BROCKVILLE.—Crops generally very good, Fall wheat, not much grown; spring do., short and thin on the ground.
CANFIELD.—Fall wheat, spring do., barley and oats. are only one third of an average crop. An inferior sys- tem of farming has been the principal cause. The	LIMENOUSE.—Fall wheat, crop very poor; spring wheat, do. Peas and oats are good, as is also the root crop.	PRESCOTT.—Fail wheat, an excellent crop, both as regards quantity and quaity. Spring, a good aver- age crop. Barley, oats, hay and root crops, fair
only root crop grown here is the potato, which promises well. These remarks apply only to this township. In the adjoining districts, they have not had better crops for twenty years.	•	average crops. Ebwandsburg.—Crops all very good, and more than an average yield expected.
DUNVILLE.—Fall wheat, in some places, will reach 40 bushels per acre, and, generally, will average 25 Spring wheat is a very inferior c.on. Barley, oats, peas and buckwheat, all excellent crops. Root crops	NORVAL,—Fall wheat, old varieties "lmost a total failure; "midge proof" is an average crop. Oats, peas, and barley are an average crop. Flax largely grown, and has yielded well.	MATILDA.—Fall wheat, double of last year of fine quality. Spring wheat, little sown, but has yielded well. Barley, o.us, peas, corn, rye and flax, good crops. Root crops, light.
promise fairly. Forr Eng"Midge oroof" fall wheat is very good, and will riciu 25 bushels per acre. Spring,	BRAMPTON, MALTON, AND WESTON.—Same as Norval. CARLTON.—Neither fall nor spring wheat is an average crop. Coarse grains are very good ; root	WILLIAUSBUBG.—Crops are all in excellent con- dition. A large quantity of fall and spring wheat sown, which will yield 35 to 40 bushels per acre.
very little sown, and a very poor crop. Other crops, in consequence of the severe drought, proved almost a total failure.		AULTSVILLEWheat, corn, peas and oats, are a good crop. Barley and roots, rather poor.
WESTERN DIVISION.	age yield may be placed at 25 to 30 bushels per acre. Peas and oats are splendid crops. A few farmers have tried flax with success.	DICKENSON'S LANDING.—Fall wheat, not much grown, what there is is an average crop. Other cereat crops promise extremely well. Root crops are very little
DETROIT,—It is estimated that the wheat yield will be an average. Corn is a heavy crop. Oats, barley, and roots will exceed any former year.	CENTRAL DIVISION.	cultivated. LANCASTER.—Crops good, and farmers are well pleased.
	SCARBORO'.—The crops are all above an average. Roots look well, but there are indications of rot in the potatoes.	VAUDREGIL-No fall or spring wheat sown. Other cereal and root crops are very good.
Mr. CLEMENS.—Fall and spring wheat will probably yield 25 and 20 bushels respectively. Good crops of roots and coarse grains.	Pont UNIONFall and spring wheat an average.	Sr ANN'3-Fall wheat, none grown. Spring do., good, and an average crop. Barloy and peas, very fair crops. Oats are partially damaged by rust.
SMITH'S CREEKAll kinds of crops are good.	FRENCHMAN'S BAY All kinds of crops will be over an average.	Root crops, below an average. MONTREALNot much wheat sown, but this year's
PORT HURONLittle grain is grown here, but what there is has turned out well. Other crops are excellent.		crop is above an average. Coarse grains are a magnificent crop; root crops, do. The apple crop is likely to be a heavy one.

SEPTEMBER 15.

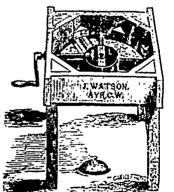
The Breeder and Grazier.

Implements for Cattle Feeding.

Most of our readers are aware that the treatment parm sides should be fed at regular times and in a on the subject. Not only so, he is surprised at the quait parentity for the regular time, and for their ap



pancity of the material bearing on this confessedly important branch of farm practice to be found in the publications of great modern agricul ural anthors. The cause of much of this uncertainty has been the almost total neglect of the great objects of winter feeding. These, we take to be-the maturity of the cattle in the shortest time, with the east outlay for food and labour, and with the largest quantities of flesh and manure. The important uses of the turnip are now generally admitted and understood. At 1 is day it is as much identified with the diet of the farm-yard as with the improved methods of tillage, and a judi-



efous rotation of crops. This being so, it is not unnatural that we should expect a somewhat uniform expression of opinion as to the best method of feedlng it.

It is not our present object to attempt any solution of the difficulty. We merely throw out the hint for the consideration of our reflecting readers, with a half-matured intention of returning to the subject on a fature occasion. Our immediate purpose is to indicate some useful auxiliaries, in the shape of easily procured and not over expensive implements, to assist our farmers in the preparation of their cattle food. It is almost unnecessary to premise that clean Uness. a due degree of warmth, abundance of litter, | crushed linseed or grain, and thus prevent the animal | good worker.-Exchange.

pure air and precautiegainst discuse, are requirements as essential as an ar, le suppose of wholesome nutritive fool. This consideration will be obvious, and therefore need not be further insisted on. Besides , taese ordinary precautions it is highly important that

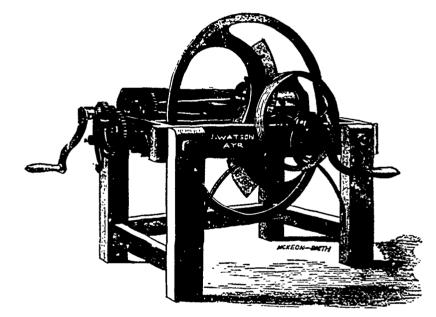
of eattle with respect to winter look and socier has justed roading. Where several animals are housed long been, and still is, a topic or much contact of together, a manorm process of foddering, by always opinion among practical stock farmers. The thoughs prominenesing with the same animal, should be adopted ful farmer is perplexed amid the contrarieties which its this means the cattle adjoining will be spared exist in the directions of the most eminent authornics, much freeing and uncasiness, and will soon learn to

pointed turn. It is not casy to over-estimate the im portance of a methodic course of procedure. Our (readers, however, will more readily realize the advantages of the system for themselve, by personal observation, than by any lengthened explanation of i.s. benefits in the present article.

It is generally admitted that in feeding turnips it is advisable to alternate them with crushed linseed or grain, mixed with a certain proportion of cut straw or chaff. For cattle intended to be fattened off, turnips ought to be cut into convenient slices, and into much smaller pieces for calves. Several machines strosity of any kind, but. on the contrary, each little

from choosing and wasting its food. The machine before us appears strong and substantial, well built throughout, and, is said by the proprietor to be capable of cutting one ton per hour into lengths of \$, §, and j inch as may be desired, by changing the gear wheels.' The large balance wheel makes it work easily, and two handles accompany each ma chine so that is necessary, it can be used as a har 3 nower.

A CON PRODUCING FOUR CALVES AT ONE TIME - 4 circumstance occurred in this neighbourhood some little time ago, which, I believe, is almost unparal lelled in the history of the boyine tribe, and which you may think worthy of record in your columns. Mr. Holloway, of Thain's Farm, in the parish of Montcombe (Dorset), has in his possession a roan, or red-and-whito spotted cow, soven years old, which, on the 23d day of May last, produced at one birth four perfect calves. The calves were not in any way joined to each other by ligament or inter growth of limb; neither was there, in either of them, the slightest external appearance of deformity or mon-



have been devised for effecting this double onject., animal was perfectly shaped, had the proper number Probably that invented by Mr. Gardner, of Banbury, England, and made in this country by Mr. J. Watson, of Ayr, is about the best. Our first illustration shows this useful implement. The cylinder, on whose axle the fly-wheel is placed, contains arranged upon it, in the "step by step" method, a knife or cutter, or rather a series of knives, which cut the turnip into finger-shaped pieces suitable for calves. By simply reversing the motion of the cylinder, another knile edge comes into operation by which the turnips are sliced larger for cattle. Our next cut represents another "double action root-cutter," known on this continent as " Cant's Patent." This implement is manufactured " under an agreement with the patentee" by Mr. J. Watson, of Ayr. It is

only half the price of Gardner's machine, and was awarded the first prize at the Provincial Exhibition at Hamilton last year, while the first mentioned implement was placed in the second position. With all due deference to the judges who officiated on the occasion, however, we beg to record our decided opinion that, for the farmer who looks for strength, thoroughness and durability in a machine, Gardner's is the implement he should purchase.

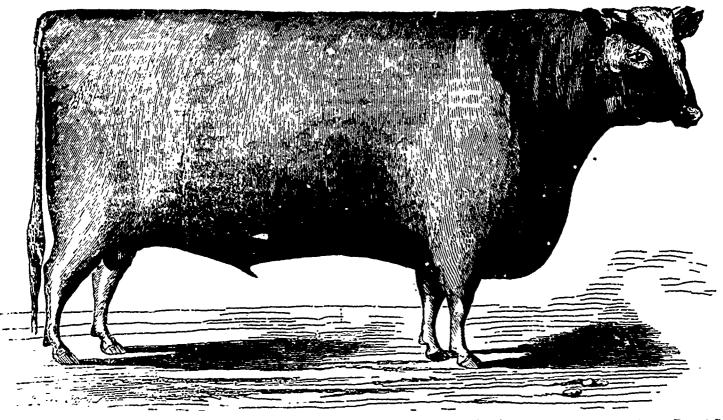
In our last illustration is shown an "Improved

of limbs, and presented in every way a natural and symmetrical appearance. There was a remarkable coincidence with respect to the colour and sex of the calves; for while one was of deep red colour and a male, the other three were pure milk white and females. Although born alive the whole batch died soon after birth. A photograph has been taken of the cow and her remarkable family, and is now exhibited in a shop window in this town, and, if likely to be of any interest, I could procure and forward to your office a copy of the picture. I ought, perhaps, to add that this cow on two previous occasions produced twins, so that she has been, during the last three seasons the prolific mother of eight calves .- J. S. in London Field.

CHORED CATTLE .- D. Hyzer states in the Rural New-Yorker that he has found that pouring half a pint of melted lard down the animal's throat, relieves it immediately, and without failure. Good managers by the use of slicing machines, &c., will scarcely ever need such remedies; but sometimes, through the carclessness of bired men, such accidents will occur. We give the above remedy for what it is worth, com mending it for trial.

OXEN.-In a good working ox we want to see the following qualities : Let him have large nostrils, a Power Straw-cutter 'also manufactured by Mr. Wat-son. Straw and chaff-cutting machines are useful and economical as food preparers because they fach-tate the mixture of the material so cut, with the structure of t

FRIZE SHORT-HORN EULL, "THE BRILLIANT LAMP."



THE splendid roan year-old Bull,-" The BRILLIANT LANF," shown in the accompanying illustration. is the property of James Anderson, Esq., of Grace Dieu, County of Waterford, Ireland. This animal was exhibited at the Royal Dublin Society's Show, held in the Spring of this year, and carried off from ninety-eight competitors the First-Prize of his section, and the Ganby Challenge Cup. "The Brilliant Lamp" is by "Bright Lamp," (19.356), by "Lamp of Lothian", dam "Octavia the Second" by "Soubadar," (18.901, gd. "Octavia" by "Drishane," (14.414.)

Entomology.

Insects on the Gooseberry and Currant.

FROM the following extract, which we take from the columns of the Scotlish Furmer, it seems that the application of helibore to destroy these insects, as recommended recently by various writers, is not altogether an advisable proceeding :

"Growers of gooseberries and currants would do well, as soon as the buds break into leaf, to go over their bushes early in the morning, when the dew is on them, with a flour-dredger charged with flour of sulphur; also repeat the process about the end of June. This with me has always been a certain preventive. A boy will go over 200 bushes before breakfast, and the expense would be about ninepence for two pounds of flour of sulphur.-Joszpu BURGESS, in Midland Florists' Guide for April." This is another, and we should think rather a good addition to the numerous recipes for preventing the ravages of the gooseberry caterpillar, sulphur being one of the most effective appliances for the destruction of insect life, and at the same time one of the least injurious to vegetable health. And we would specially recommend trial of it, in course of this and next month, to gooseberry bushes in districts infested with that intolerable nuisance, the gooseberry bug. A respected old lady, who was famous for the excellence of her home-made ginger-beer, once assured us that she had found, from long experience, nothing was such an effectual caterpillar destroyer as that beverage, which she sprinkled over the bushes from the roso of a small watering pan. To such a harmless application, made at any time, there can be no objection ; but we decidedly protest against all poison o is applications, such as helibore-now so extensively used-especially when or after the young berries have become fit for tarts or other purposes, 33 small Hindle cle's Salence Classip.

quantities might adhere to their skins, especially to those of the rough or hairy sorts, and result in very unpleasant if not dangerous consequences, not only to gooseberry caters, but to the partakers of jams. jellies, wines, tarts. &c., made from them either when green or ripe. Sulphur does not rank among these poisonous applications, nor does it affect the flavour of the fruit, but itshould only be applied in the younger stages, as what lady or gentleman would go a-gooseberry-picking at the risk of having their clothes sulphur scented ?- Country Gentleman.

THE DIET OF WORMS .- Many persons are not aware of the fact, that the earthworm really does live upon earth. It is sometimes stated in popular works on zoology that the worm picks out portions of leaves, grass, &c., and devours them ; but this is quite a mistake-the earthworm lives upon earth. It must not be supposed that it assimilates the mineral constituents of the soil; its gastric and biliary secretions dissolve the decomposing animal and vegetable matters which are invariably contained in rich soil, and it is these which are assimilated. The earthworm could not live upon earth that had been burnt and deprived of its organic constituents. In a similar way the arenicola, or lug-worm, which lives in the sands exposed by the action of the tide, gorges itself with that substance, and extracts the matters which it contains fit for nutriment. More frequently, how-ever, the "lug" lives in the rich clays of creeks and saltings, which abound in animal and vegetable matters. It is worthy of observation, that a very large quantity of earth or sand, as the case may be has to be gorged before any appreciable amount of nutriment is extracted ; at the same time swallowing of carth is an assistance to the worm as it burrows in the ground, inasmuch as large quantities of material are thereby removed from its path and ejected behind. The appearance of those curicus linds masses of digested earth on the surface is thus caused. by means of which the earthworm effects such wonderful changes on the surface of the ground, turning up the carth, burying the stones, and producing a fresh and fertile soil where formerly was a barren wasta.-

BIRDS AND INSECTS .- A correspondent who has been considering the effect that birds have upon keeping down insects, writes to the Field expressing his belief that their influence is much less than is generally supposed. He says :- "Of my own personal observation I know only three birds that seem to abstain entirely from insect food-the goldfinch, linnet, and red-poil. I have never noticed the sparrow take anything but winged insects, abstaining altogether from caterpillars and larvæ. Now, there are many insects which birds do not deyour at ali-take, for instance, the man-and the deyour at ali-take, for instance, which birds do not devour at an-take, for instance, the wasp-and yet they appear and disappear in cer-tain seasons in a manner which I have never heard satisfactorily explained. We generally look for them in dry, hot seasons, and last year they came in great numbers; and this spring, from the numbers of queen wiston the conductor wave in desnir anticinating wasps, the gardeners were in despair, anticipating the destruction of their fruit; but although the weather has been seemingly most propilious, they have entirely disappeared. I have not seen a wasp for several weeks, and this before the heavy thunderfor several weeks, and this before the heavy thunder-storms of last week, which we might suppose would have destroyed them. Again, the gooseberry cater-pillars, which two or three years go stripped all our gooseberry bushes of their leaves, have also vanished. Although they appeared to be so loathsome to the taste of birds that I could never persuade any of my birds to touch them even the ducks, the foulest taste of birds that I could never persuade any of my birds to touch them—even the ducks, the foulest feeders, rejected them—yet, as I said before, they have disappeared. I rerrember, many years ago, when travelling in Australia, to have met with a plague of grasshoppers, which came in such incredi-ble numbers as almost to darken the air. They de-courted every grant thing in their way. During their roured every green thing in their way. During their Right, which lasted for two hours in the morning, and the same time in the evening, it was difficult to get our horses to face the storm, and those feeding in the our horses to face the storm, and those feeding in the bush would turn their backs to them just as we see horses turn in a violent thunderstorm. They were accompanied by great flights of birds, which, of course, devoured great numbers; all the domestic poultry fattened on them; even the pigs and dogs ato them, but seemed to have no effect una their num-bers; and as the grasshoppers were they cach day, in millions to deposit their eggs in the ground, the in-habitants became scriously alarmed. However, the grasshopers vanished as mysteriously as they came, and the following year they were not more than usu-ally numerous." ally numerous."

The Dairy.

Philadelphia Butter.

THE superior quality of the above, to the general average found in other cities and places of resort, is a very common observation of travellers. Its excellence has indeed become proverbial, and there may be several reasons given.

1st. The character of the pastures in the dairy districts around Philadelphia comprises a mixture of grasses. We find among hese, varying of course. somewhat with the locality, Kentucky blue grass, (Poa pratensis), greatly valued by our best dairymen, red clover, white clover, herds grass, timothy, sweet scented vernal and rye grass. The mixed character of this pasturage is probably of some importance. Where the pasture is chiefly red clover, it is a common remark here that the butter is apt to be strong.

2nd. Our dairy farmers are very particular to take out of their herd every cow whose cream, partaking of an oily character, does not separate freely from the milk and harden readily. We once owned a cow of this character, and had to churn every cow's milk separately before we could find which she was. The cream was what is called ropy, and would never harden into anything but oily butter. It spoiled the butter of 20 cows, when mixed with it.

3rd. When milk is allowed to stand too long, as, for instance, in a spring house, below the proper ature, it becomes mouldy, which of course hurts the quality of butter. This is obviated by keeping on hand a pan of sour or thickened milk, a table-spoon-ful or two of which is mixed with every pan of fresh milk, when it is first put in the spring house. This hastens the decomposition or souring of the milk, which it is believed here is indispensable to secure the whole quantity of cream from each pan. The rule is generally for pans to stand for three milkings before the cream is skimmed off and put into the cream pot

4th. The care of the cream is considered important. It is put in a tin vessel, about 15 inches deep, by 10 or 12 in diameter. A hole is made below the level brick or plank floor of the spring house, in which the cream pot is plunged up to its rim in water. This keeps down the temperature, and prevents fermenta-tion. Very particular care is used to stir it well round once or twice daily.

5th. Churning not less than once a week contributes to make prime butter. Most of our best dairymen churn twice in the week through the summer.

6th. The cream being in proper order, the churning and working of the butter follows. If butter gathers soft in the churn, no subsequent working or manipu-lation will make good butter out of it. It is essential that the butter "come hard," and this is insured by throwing in a lump of ice, and working it around a faw times in the churn with the butter, &c., when it for the back first begins to break.

It is then transferred to the butter table, and all the water and buttermilk worked out of it in a very few minutes, no matter how large the quantity, by one of our patent butter workers. A sponge enclosed within a soft muslin cloth is used at the same time, same time,

within a soft muslin cloth is used at the same time, and when the process is through, it would be difficult to discover a single trace of either water or buttermilk. The salt is applied at this first working, and thoroughly incorporated, by the fluted rollers of the worker. The use of any water at all in working is generally avoided by our best dairymen. The late D. B. Hinman, President of the Chester County Agricultural Society, often replied to visitors from a distance, who said they could not make such good butter as he gave them, "that they were too ambitious. You try," says he, "to save both the butter, and allow the other to drain off." The Latire cleanliness in and around the spring house, is scrupulously observed. The milk pans,

house, is scrupulously observed. The milk pans, buckets, strainers, &c., are daily scalded and exposed to the sun, and all notions of ours, which milk and to the sun, and all noxious o'ours, which milk and they ofter cream absorb so quickly and readily, carefully First stat avoided. An old lady on a dairy farm once told us that she fully excused her son for giving her a sudden and violent blow on the month. Thoughtlessly she had gone into his spring house, smoking her pipe. A sudden blow, and stamping under his foot drshed would have done the business, and damaged the guality of his whole churning. He had been obtain-ing an extra price for a choice article of butter, sold Affairs.

always in advance, and took the only method to save

his reputation, as ho thought. Sth. After working, and printing into half pound and pound lumps, each separato piece is rapped up in a clean white rag, often with the owner's name on it, packed in the tub smoog ice, and brought into market as fresh and hard as it leaves the spring.

Butter made in the above way is now selling (6th mo. 1st.) at 50 cents per pound in Philadelphia mar-ket, and has brought for many weeks the past winter 75 to 85 cents per pound. Such butter is one of the hyperball. Rural Advertiser.

Don't Run the Cows.

Now, boys, we have a word to say to you. When we were of your age we always had to drive the cows to pasture, and go and bring them, too. Sometimes we got a little late, or were anxious to get off to play, or a cow found a bit of good, sweet grass, better than she had found all day in the pasture, and would stop to take a bite and fall behind the rest. That was provoking, and we were apt to give her a pretty severe lesson. In fact, we were guilty of hurrying up on many occasions. It was all wrong, but we little knew how much injury we were inflicting on ourselves, as well as on the cows.

Now it is perfectly well known that overdriving causes the milk to be heated and feverish, especially in hot weather, and this milk is not a healthful article of food, either as milk or when made into butter or cheese. Cows that are abused, kicked, or roughly treated, cannot give good milk, and no process of manufacture can make it into so good an article of diet as milk that is not injured by such treatment.

Never let the dogs chase the cows. A worriment of this kind not only lessens the quantity, but injures the quality of milk, and it should be carefully avoid-ed. Dogs are i, nerally a curse among a herd of cattle, and particularly so among milch cows, unless they are trained to drive and tend them, as few of our dogs are .- Mass. Ploughman.

Jar GLTCERINE is the best article for caring cracks in cow's teats. Apply it twice a day after milking.

LOOL OUT FOR THE LACTOMETER .- At the Trenton, N.Y., Cheese Factory, this little instrument told a tale which excited suspicions against the fair dealing of two "patrons" of the association, and detectives were set to watch, when both parties were seen to add water by the pailful. The matter created quite a stir, but was bushed up so far as private claims are concerned by the payment of \$50 each, and an agreement that on.-eighth should be deducted from all the milk they had delivered this season. Verily the way of the transgressor is hard.—Country Gentleman.

A Good Cow.-Mr. Joseph Brown, of Delavan, Wis. writes to the Rural New Yorker thus of a rare specimen of the bovine race :- "I have a cow that gave 1,4961 lbs. milk during the month of June last, from which my wife made 66 lbs. of butter. Said cow was 13 years old last spring-received no feed during the time, except what she got from a good pasture—has always been kept in good condition and milked regularly. Each milking was weighed during said month; the most she gave at any one milking was 28 lbs, the least 19] lbs. The June after said cow was 7 years old she gave 1,334 lbs. milk from which was made 62 lbs. 7 oz. butter. She is said to be one-fourth Durham."

TRAINING CATTLE TO JCMP.- A Western farmer says he makes it a rule that whenever cattle are made to pass a fence, whether through bars or "slip-gap," to leave one rail for them to pass under. This gives them a downward tendency, and lessens their inclination to jump or look upwards, as they are sure to do when a lazy attendant throws down a part of the rails, and makes them vault the rest. Cattle may be learned to go over any fence, by the careful training they often get for this end, and performed as follows: First starve them, or give them poor feed, which will make them light and restless. As soon as they go over the lowest part of the fence after better provender, make them jump back again, and put on one more rail, saying, "I guess that will keep 'em out." Next day, (as of course they will be in mischief again,) repeat the process, adding another rail; in a short time they will take care of themselves, and barvest the clops without charge.— Tucker's Rural Affairs.

Veterina:y Department.

Puerperal or Milk Fever.

This disease consists in a partly febrite and partly inflammatory state of the system, accompanying the formation of milk, and always occurring more or less after calving. In some instances the fever becomes very great, and inflammation of the peritoneum sets in. When this takes place it is called parturient peritonitis. The symptoms are tolerably well marked, and are rapid in their course, frequently gaining their full intensity in six or eight hours. The animal has an unsteady, reeling gait,-the pulse is high, beating from eighty to ninety per minute,-the muzzle hot and dry,—the respiration also very much increased, the gait becoming still more unsteady, and in a short time the animal falls down. When lying she is very restless, and perhaps makes ineffectual attempts to rise. She moans continually, and stretching out her neck looks around at her flanks, as it were pointing to the seat of the disease. In most all cases there is obstinate constipation of the bowels. In fact all the secretions are stopped, and the urine is retained within the bladder. If these symptoms gradually increase, death soon supervenes.

This disease occurs in cows of all ages, and may follow any kind of parturition. However, it generally arises from bad usage immediately preceeding or during parturition. It generally shows itself about the third or fourth day after calving. A post mortem examination reveals the whole peritoneal surface of both the intestines and the uterus, covered with a dirty granular lymph. If the disease has lasted for a few days there is an effusion of fluid into the abdomen; while the substance of the nerves going to the abdomen are thickened and Carkened in their character. The veins in the neighbourhood of the uterus, will be found to contain either broken down lymph or pus. The lungs and liver are found often conjested. In the treatment of parturient peritonitis, as the bowels are constipated, a smart dose of purgative medicine, such as epsom salts, must be gative medicine, such as epsom salts, must be administered :--one or two pounds combined with two drachms of calomel, and eight to ten drops of croton oil. Give also every two hours, from thirty to forty drops of tincture of aconite, until five or six doses are given. If the abdominal pains continue, a pound of castor oil may be given, combined with two ounces of laudanum. Apply cloths wrung out of hot water to both the loins and abdomen. The teats should be drawn regularly and frequently; and the patient encouraged to take as much liquid as possible. In other cases the brain is congested, and is called parturient apoplexy. It is also very rapid in its course.

and more fatal than peritonitis. It differs from the latter in being active congestion of the brain, accompanied by inflammation of the spinal cord. It is most likely to attack cows that are good milkers and in high condition, and generally occurs about three days after calving. The first symptom obser-yred is a deficiency in the quantity of milk, and the yield gradually diminishing at each milking, the urine is suppressed and the bowels costive, the eyes having the order will the pulse outdowned and are in urine is suppressed and the bowels costive, the eyes begin to get dull, the pulse quickened, and as in peritonitis, the cow has a staggering gait, hes down and is unable to rise; the breathing becomes ster-to.ous, a state of coma sets in, and the eyes become of a dull opaque leaden colour. This diseaso re-quires energetic treatment. In the early stage, blood-letting is useful, which should be followed by a very large does of nurrative medicine combined with a large dose of purgative medicine combined with a diffusable stimulant repeated at intervals. Clysters should be administered often, as if the bowels can should be administered often, as if the bowels can be freely moved the cow may be considered safe. After an animal becomes comatoso it is uscless administering medicines. This disease may be pre-vented to a great extent. If a cow is in very high condition she should be fed sparingly some days before calving, and also allowed exercise and plenty of water. As a sequel of parturient fever, paralysis sometimes occurs to such an extent that the cow is unable to rise. In other cases she partly looses the unable to rise, in other cases she partly looses the power of her hind quarters. Paralysis may continue power of her hind quarters. Takings may continue for weeks and even months and still perfect recovery may take place. When it becomes somewhat chronic, the powdered nux vomica given in doses of two to three drachms twice a day has been found of muc. value in clauring and expediting recovery.

The Apiary.

Oueens and Oueen Cells by the Wholesale.

1 AM tempted to relate an occurrence of to-day, thinking it may interest your bec-keeping readers. On the 4th inst. we removed an Italian queen from a full colony and shipped her to a exstomer, giving the stock a young fertile queen on the 7th inst. Being very much hurried we neglected to make a final examination, but supposed the young queen was accepted. This morning the colony threw a large swarm. On opening the hive the peculiar " piping of an imprisoned queen was plainly heard, and an investigation resulted in the capture of ten beautiful young Italians, all of whom had their full colour and were able to fly; but after cutting, the cap of their cells had been rescaled by the bees, and fed through an opening in the lid, as so correctly described by Huber. The colony having started queen cells as soon as their queen was removed, had refused the young queen given them on the 7th, and an enumeration of the cells showed that they had finished lucntyfire, one of which contained an immature drone swimming in "royal jelly." (This attempting to convert drone eggs into queens is, by the way, a common occurrence.) Several had been opened and common occurrence.) Several had been opened and their inmates murdered; others had hatched, and two we cut out and placed in a box, leaving one in the hive. Our next onslaught was on the swarm which had clustered on a small tree. We hived it, getting five more young queens which had accom-panied it, and on returning to the queen cells which we had cut out, found one hatched and the other just hatching, thus securing seventeen young queens and a queen cell for the old hive! I think this a pretty good haul from "a buckwheat swarm." Although I know of no buckwheat nearer than a mile and a half from our apiary, we are having swarms from our from our apiary, we are having swarms from our Italians almost daily, and they are rolling in the honey famously. The amateurs who have examined the Italian bees

The amateurs who have examined the Italian bees closely, have noticed in every hive many workers whose yellow bands were of the most brilliant hue, while their abdomens were of a jet black—rivalling Day and Martin's blacking. We have had numerous inquiries in regard to this, some thinking that these fellows were the pure bees, and that the presence of others was a mark of impurity in the queen producing them. This is what might be called a posteriori reasoning. The fact is that there are old bees whose bodies have been worn smooth by hard labour, and any one doubling has only to catch a worker, and with a wet finger rub its back gently for a few moments to polish him up to the African type. We have just received some queens direct from the district in Italy, where, according to the last German Beo-Keepers' Convention, these bees are found in their highest purity, and expect to be able by their possession to solve some questions yet in dispute by aplarians.—JAMES T. LANOSTROTH, in Country Gentle-man.

wan.

Among the Honey-Makers.

The August number of the Atlantic Monthly, has an interesting article on Bees, by Miss H. E. Prescott, from which we make the following extracts :

A NEW QUEEN.

"The queen is dead : It is lamentable, but nothing is so easy as to make another. There is only to tear down some dozen cells, to set the youngest embryo affoat in the royal jelly, and a queen appears, who if not in the legitimate line, is capable of performing perfectly all the office of a sovereign. There is a moment of intense despair, great riot and agitation ; work is suspended; the temperature of the hive mounts many degrees. All at once the old art is remembered-the administration of that delicious medicament, of so astonishingly affluent nature that it can make a queen out of a commoner, the enlargement of the narrower cradle to that umpler space which forbids the atrophy of a single fibre of the body. The preparations are made, and with tran-

day there comes a single piping sound-it is the cry of the royal babe-the hive is filled with rejoicingthere is no longer any interregnum of the purplethe queen is born! Perhaps the queen-makers have been too much in carnest, and at nearly tho same moment the iumates of two royal cells issue together. Then is the time to try one's mettle-no shrinking. no bias, nothing but pure patriotism. Let a ring be formed, and she who proves herself victor is worthy of homage. Is one of the two a coward? The impartial circle bring ber back to the encounter, bite her, tease her, tumble her, worry her, tell her plainly that life is possible to her on no terms but those of conquest. At length the matter decides itself; the brilliant and victorious Amazon bends her long, slender body, and with her royal poignard . erces the abject pretender through and through. Then these satisfied subjects surround her, load her with endearments, cleanse her, brush her, lick her, offer her honey on the ends of their proboseides, and if there are yet remaining other royal apartments whose tenants give notice of timely appearance, they whose tenants give notice of timely appearance, they conduct her on an Elizabethean progress, in which, filled with instinctive dismay, she pauses at every cell, and stabs her young rival to death with her sting. As the story runs there are still other con-ditions to be fulfilled by the aspiring princess—she must give her people the assurance of a populous empire. Should she fail in this, they have recourse to their old manœuvres, becoming manifestly insu-bordinate and upruly. If, however, they at any time wax unbearable in their insolence, the young mon-

bordinate and urruly. If, however, they at any time wax unbearable in their insolence, the young mon-arch has it in her power, by assuming a singular attitude, standing erect at a little distance her wings crossed upon her back and slightly fluttering, while she utters a shrill, slender sound, to strike them dumb, so that they hang their heads for shame." It is quite distressing, after reading this preity story, to be told that "the later apiarists deem it a tissue of fiction and fallacy. If, when a hive is de-prived of its queen, there happen to be a royal egg remaining in it, they say, it will shortly produce a queen, as, if it had been a common cgg, it would havo produced a common bee. They insist that the organism of the creature to be produced is inherent in the egg, and do not believe it in the power of a bee organism of the creative to be produced is interent in the egg, and do not believe it in the power of a bee to alter a law of nature; they deny the statements of Schirach, Huber, Dunbar, Rennie, and others to this effect, and scout the idea of the existence of such a effect, and scout the idea of the existence of such a thing as royal jelly at all, with the supposed aristoc-racy of its compounders." Another story is told which proves the sagacity of the bee. In the latter part of last century there appeared in Europe a strange, big, ugly insect, called the *Sphinx Alropos*, which invaded the bee-hives and destroyed the honey. The attention of the apiarist Huber was directed to the matter. the matter :

A PROBLEM SOLVED.

" Huber took counsel with bimself for some means of protecting his bees from this daring robber. Should he make gratings? Should he make doors? And how? That was his doubt. The best imagined and now? That was ins doubt. The best imagined closure possible had the inconvenience of hindering the great movement of exit and entrance always going on at the sill of the hive. Their impatience rendered these barriers, in which they would en-tangle themselves and break their wings, intelerable to the bar to the bees.

"One morning, the faithful servant who aided him in all bis experiments, informed him that the bees had already solved the problem for themselves. They had in various hives conceived and carried out had in various hives conceived and carried out divers systems of defence and fortification. Here they had constructed a waxen wall, with narrow windows, through which the luge enemy could not pass; and there, by a more ingenious invention, without stirring anything, they had placed at their gates intersecting arcades or little partitions, one behind another, but alternating, so that opposite the empty spaces between these of the first low stood the partitions of the second row. Thus were con-trived numerous openings for the impution crowd the partitions of the second row. Thus were con-trived numerous openings for the impatient crowd of bees, who could go out and come in as usual, and without any other obstacle than the slight one of going a little zigzag; but limits, absolute obstruc-tions, for the great, clumsy enemy, who could not enter with his unfolded wings, nor even insinuate himself without bruises between the narrow corridors

This was the coup d'etat of the lower order the revolution of insects, executed by the bees, not only against those that robbed them, but against those that denied their intelligence. The theorists who reguility restored the people await the event. One must consider themselves conquered."

Sheep Ausbandry.

Wool Shrinkage-Michigan Test.

WE present to our readers herewith the result of the test concerning the shrinkage of wool, afforded by the Farmers' Mechanics' and Stock Breeders' Association, of Jonesville, in the cleansing of ten Merino fleeces sheared at the sheep-shearing of the association in May last. In this test it may be safely said that the best fine-wools of the State were represented, as Hillsdale and the adjoining counties are ranked among the very best sheep districts in the West, and the sheep-shearing in question brought out what were supposed to be the very best specimens of the very best flocks in the section. The entries were made in competition for premiums offered for the "best cleansed fleeces," and from the facts in the case it is evident that the exhibitors acted in good faith, and that no flecces were entered which in the opinion of the owner did not stand a fair chance of obtaining a premium, the owners not being aware, up to the time of this test, of the enormous shrinkage of fine wool in the operation of cleansing. Hence, the result of this test may be regarded as a fair exhibit of the average shrinkage of first-class Michigan fine wool. The association is entitled to the thanks of all interested in wool-growing for thus settling an interesting and highly important question by this practical test.

In presenting the table, as furnished us by the Secretary, Hon. W. J. Baxter, we will only premise that the fleeces were cleansed under the superintendence of Mr. L. D. Green, of the Jonesville Woollen Factory, who was chairman of the committee, the cleansing being carefully done in the usual manner of preparing wool for cloths, and that we believe the figures may be relied upon as correct :

	Ficeco of			Loss	DCT
No of	ewe or	Wt of ficeco	WL of fleeco	Loss in cent.	
entry.	buck.	uncleansed.	cleansed.	cleansing clean	s'c
-		lbs. oz.	lbs. oz.	los. oz.	•
A	CM.0	10 8	3 125	6 14% (53.3
В	CM O	12 0	4 1031		51.1
C	6100	11 8	4 125	6 11 5 6	3.4
D	buck.	14 8	5 1033		9.9
F. F	buck.	14 8	5 153	8 84 6	3.8
Б	buck.	15 0	6 11.		59.3
G	buck.	11 0	4 314		31.6
н	buck.	98	3 1443	5 94 6	8.8
1	buck.	16 U	4 614		28
J	buck.	98	3 1213		ō.1

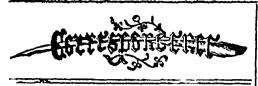
It is interesting to compare this table with that prethe interesting to compare this table with that pre-pared by the counsitize of the New York Fair. Our Western wool-growers will learn with pleasure that the average per cent. of shrinkage is less, while the average weight of the scoured fleeces is greater, in the case of the Michigan fleeces, compared with the Merino fleeces cleansed in New York. It is but fair to state that none of the Western fleeces had so small a per cent. of shirth are used in never shart so small and that one of the fleeces cleansed at Jonesville showed a greater shrinkage than any one of the New York fleeces. For convenience we place these facts in a tabular form, viz :

	Michigan	New York.
Least per cent, of shrinkage		52
Greatest per cent. of shrinkage	. 72 8	71 4
Average		62.7
Average weight uncleansed fleeces		12.63ths
Average weight cleansed fleeces		4.61164

The Michigan fleeces have one and two-tenths per cent. in the shrinkage and nine-hundredths of a pound in the weight of the fleeces in their favour. Our Western wool-growers may well be proud of this result.

The public will understand that the names of owners of the flecces in the Jonesville test are with-huld out of deference to their feelings. The fleeces were "brag" fleeces from "brag" sheep, and the shrinkage was so much greater than was expected that the owners felt a disappointment which it would be ungenerous to aggravate by a public exposure.-Western Rural.

Nore by Eo. C. F .- We give the above report in full as we recently gave that respecting the Canandagua trial, believing that these documents are most encouraging to our sheep-breeders. The Rural New Yorker says that according to the conditions of the Michigan competition, "a respectable Colswold, or a grade shorp, if admitted to the trial, would have soon the prize."



Market for Summer Fattened Hogs.

To the Editor of THE CANADA FARMER :

Sin,-Since my arrival trom England, per "Persia, I have read in THE CANADA FARMER, of the 15th inst. a letter purporting to be written by "a Farmer," in which he is inclined to reflect upon the truthfulness of encouraging statements emanating from Hamilton curers to the bog breeders; and asking "what a farmer is to do with his 100 fat pigs in the middle of summer, &c." To every man who has, or is likely to have a stock of fat bogs, I have a most satisfactory reply. Let them be brought to the Ontario Pork House, Hamilton, and I undertake to give 7c. per lb. gross, for any number up to 3,000 a week, until the 30th September next, and no seller shall be turned away through any want of capacity or inclination on my part. If your correspondent is in reality "a farmer," I ask him, will that promise fulfil every encouragement the Hamilton curers have ever held out? I unhesitatingly state that since the Ontario Pork House has been in operation (excepting during the rebuilding after the destruction by fire) no owner of 100 fat hogs, or any smaller or larger number ever had to seek in vain for a buyer at a fair market price. either summer or winter. In conclusion, I reiterate the Hamilton curers' assertion that the average price of hogs in summer is higher than in winter, and each summer to come we are sure to see the difference in favour of summer prices increased. The cause is most apparent to the trade. The large consuming population of England is more dependent on foreign supplies, during the period between the exhaustion of Irish and English home-made stocks, and the appearance of the new cure (in November), because the means of curing is not at their command during summer months, except on a most limited scale, owing to the costliness and scarcity of ice in those countries. J. T. DAVIES.

Pork House, Hamilton and Liverpool.

P.S.-Having had the above submitted to me, I endorse every promise and argument put forth, and I hold myself prepared to carry out the offers.

SAMUEL NASH.

CHEESE FACTORY WANTED .- " Paul H." writes from North Fredericksburgh as follows :-- " I have read so much in your paper about cheese factories, that I have concluded to request some one of your readers. and at the same time a moneyed man, to come down and start a cheeso factory here in the vicinity of Napance. I think one is much needed, and would he well patronized."

CCRE FOR HYDROPHOBIA .- " Thos. May," of Beau port, Quebec, communicates the following :- "In your last number of THE CANADA FARMER, I read the death of John Cowling from hydrophobia, also an article on "Rabies or Canine Madness." I lately received from England, a copy of the Bromley Record, containing the following receipt for the cure of bydrophobia :"

"Having seen in your paper an account of the death of a poor boy at Greenwich from hydrophobia I am induced to inform you of a preparation, which, if taken in time after a person has been bitten, will prevent this dreadful malady ; though it will not cure it when the patient has got into a rabid state. It has been in the possession of a family in the neighbourhood for upwards of 100 years, until it came into the hands of one member who was much reduced and I, with some neighbours, was induced to : 1y it, not with the view of profit, but to make so

The following is the receipt -" Tako dried herbsof bear's foot wood betony, woodsage, agrimony. box, and rue, each 2 oz., with a small piece of nightshade. Cut these small and put them into a gallon of rain water, and boil all together in an iron vessel until reduced to a quart. When the liquid has boiled some time add one ounce of antimony, and an ounce of filed pewter. Half a pint to be taken three mornings fasting for an adult, and a smaller quantity in proportion to the age by younger persons. The same quantity to be again taken at the next full of the moon. The nationt to abstain from any spirituous liquors, and be very careful not to heat the blood by violent exercise."

REMEDY FOR SMIT IN WHEAT .- "Agricola," of Wyoming, sends the following :-" There has been some complaint, in this Western section, this season of smut in wheat, a thing of which we have not had reason to complain for many years past. In the early times of our settlement, we were sometimes annoyed with it, but found in the following a cheap and effectual remedy. We give it the more cheerfully, as we can recommend it with full confidence :- Take common lye sufficiently strong to bear an egg or a potato ; when all is ready for sowing, put the wheat into the lye for a few seconds ; take it out and let it drain for a few minutes; roll in dry ashes, and sow without delay. Though there is not much danger, care must be taken not to let the wheat remain too long in the lye, or keep it any length of time before sowing, as its vital qualities would thereby be destroyed."



FROM the various lengthy reports of the progress of the cattle plague which appear in the columns of our latest British exchanges, it seems that there is no mitigation in the virulence of its attacks, or in the rapidity with which it is spreading. In London the disease has made a clean sweep of many of the dairies, and in the surrounding counties its spread is alarming, while new and serious outbreaks are reported from Northumberland, Edinburgh, and the somewhat remote vale of Llangoilen, in North Wales. It is naturally to be expected, in these circumstances, that the public mind in Britain should be strongly affected, and accordingly public meetings have been held in most of the agricultural districts, to consider the best means to prevent the spread of the malady. Much difference of opinion, as to the origin of the plague, exists in what may be termed the educated mind of the country. Professor Simonds and Gamgee, with a number of other eminent members of the veterinary profession, still adhere to the opinion that it is of foreign origin, and that, as a general rule, the animals in which it manifests itself should be destroyed at once. On the contrary, the importers and salesmen of foreign cattle, backed by the London Times, Examiner, Saturday Review, and other papers of weight and position, as stoutly maintain that "the disease is of home origin, and has been generated in the impurities of the London cow-sheds, during a summer of unprecedented heat and duration." The ing and disinfecting of the vessel. Railway com-Mark Lane Express inclines to the latter view, and expresses its "disgust at the proceedings of certain professional alarmists and their efforts to make capital out of a calamity, by a system of monstrous exaggeration."

A careful perusal of the facts and speculations adduced in support of both views of the question, remedy known for the good of the public generally. | tavour of the "foreign origin" theory. "We cannot | thorough belief which in most quarters prevails as to

believe," says the veterinary editor of the North British Agriculturist, " in the spontaneous origin of a disorder, so specific in its character. A variably will it be found traceable to contagion. Nowhere in the history of the complaint, either in our own or in other countries, can we discover the Rinderpest breaking out, like influenza and other such epizootics, in remote parts of the country, or in spots removed from the influences of contagion. On the other hand, it notably spreads after the great Continental fairs; it extends during times of war; curiously does it travel westward, following in the wake of the droves from the steppes of South Siberia ; shortly after the stranger cattle sicken, the plague affects those with which they have unfortunately herded ; where the sick and the sound are carelessly permitted to herd together the malady lingers long, and the losses it occasions are extensive; on the contrary, where the first cases are noticed, immediately destroyed, or effectively separeted from the healthy-where the places they have lived in are disinfected, and other sanitary means employed, the pestilence has often been promptly arrested with very insignificant losses."

The Scotlish Farmer pursues a similar line of argument. It says :- " It should not be forgotten in the measures adopted to check the propagation of disease from infected stock in our own country, that this malady is undoubtedly a foreign importation, and that we can never be considered safe until some arrangement has been made to prevent its further introduction. It is quite true, that like all zymotic diseases, the Rirderpest finds the conditions most favourable to its development in an animal weakened by confinement, damp, bad air, want of exercise, improper or insuficient food, or by any condition which tends to reduce its vital powers, and that such an animal is more likely to fall a victim than one in vigorous health ; yet it is as certain that no amount of these injurious influences will of themselves ensure the development of the disease in this country. With these the virus will act with redoubled energy, but without the specific virus, these are incar ble of producing the Rinderpest."

County and district associations are being promptly formed in England and Scotland, for the purpose of mutual insurance against the losses that are or may be occasioned by the disease. The funds are either taised by a charge on the rental, varying from a penny to sixpence for every acro of land occupied, or by a contribution of from one to five shillings for every head of cattle kept. Propositions have been made in many quarters to interdict for the time being the importation of foreign cattle into Britain. This course the North British Agriculturist condemns for the following considerations :-- " From abroad wo have during the past twelve months imported nearly 200,000 head of cattle, or probably about one-fourth of our meat supplies. To cut ourselves of from such supplies would obviously enhance greatly the already high price of beef, and thus tend to lower the health of the community; and that too at a time when the approach of cholera to our shores demands that our people should be well fed, and in the highest possible state of health."

It is satisfactory to learn that increased care is being taken in the examination of all imported stock, and that amongst the thousands of animals recently brought into London, Hull, Leith, and other ports, not a single diseased animal has been discovered. Greater attention is being paid by shippers to prevent over-crowding during the voyage, and to the cleanspanies, too, are exerting themselver to effect a more healthful cleanliness of their sheds and trucks ; while in many provincial towns, a veterinary inspector is appointed to examine all marketed stock. "The adoption of these and other such precautionary measures" says the journal last quoted, "the wholesome dread which now everywhere obtains leads us to believe that the weight of evidence is in regarding the serious nature of the disorder, and the Its contagious character, all conspire to place farmers and other stock owners on their guard. For some time to come a very limited and carefully conducted trade in cattle will be carried on ; all new purchases will for at least a fortnight be kept entirely separate from the bulk of the herd ; especial care will be paid to health and cleanliness, lime and disinfectants will be freely used; all beasts will be watched with zealous care; any outbreaks of the disorder will be promptly discovered, the cases isolated, and the further spread of the disease arrested."

With regard to the nature of the disease, the same journal remarks :- "It is a blood disorder, charactorized by rapidly prostrating low fever, and by typhoid inflammation, especially of the intestinal mucous surfaces. Some of our readers may perhaps have a more accurate notion regarding it if informed that it bears in its symptoms and post morem appearance considerable resemblance to serious cases of the gastric or typhoid fever of man. A more intimate experience of the complaint does not unfortunately materially diminish its mortality. More than onehalf of the cases of true Rinderpest die howsoever they are treated. Virulent and specific as is this complaint, its fell progress cannot be materially shortened. Like smallpox and most fevers, it runs a tolerably definite course. It is therefore irrational to suppose that the plague when it has attacked a beast can be routed out, as might be supposed from some of the statements that have been made regarding it. Our curativo measures can, at best, consist in the rational supporting of the vital powers, and thus enabling the animal to outlive, as it were, the disease. Hence good nursing, and small and often repeated doses of stimulants and tonics are most to be relied on."

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

Ir has, perhaps, become too much the custom to consider the soil of a cultivated field as merely the medium which receives manure, which manure is by vegetation converted into a crop. That this is one main purpose served by the soil is unquestionable; and, in arable culture, large crops, or at least a continuous succession of large crops, can only be obtained by frequently adding plant-food or manure to the ground. Nevertheless it is manifest that after such treatment a succession of small crops may be taken from a field year after year, and century after contury, and yet the land remain as fertile as at the commencement of the cropping. There are many pastures in the moist climate of the British Isles which have from time immemorial raised cattle. which cattle when they have come to maturity have been sold, all their bulk and structure having been derived from the herbage of the field; and yet the field remains in such a cond as to be able to afford sustenance to fresh generations of cattle, and notwithstanding that each animal carries with him pounds of phosphorous, sulphur, lime, potassa, chlorine, and other elements, every grain of which has by the intervention of vegetation been derived from the ground. But as the same field can still produce grass that contains these same elements of phosphorus, lime, potassa, &c., it is plain that it has some stock or store of them; and it is in the practical development of these latent substances that constitutes a most essential part of a successful agriculture. This store place is of course the subsoil. The subsoil contains these elements, but in such states of combination as not to be soluble in water, and therefore unsuited as food for the grass. By the gradual action of air and moisture, however, they form new combinations, and do become soluble in water, and can in consequence be taken up and assimilated by plants.

That the soil forms a great part of plants, that the s. bsoil is grudually, either by culture or by the slower action of the roots, becoming converted into soil, are well known facts. It has not, however, been as clearly perceived that a great part of the produce

of the country,—that is of soil and subsoil converted into plants and animals,—finds its way into large towns, and is not returned to the country (being deposited either in gravo yards or into the streams which receive the sewers), and that therefore the surface of the country is gradually becoming lower and lower. Such must be the case, and has only escaped observation from the extreme slowness with which the process is carried on, and from the absence of any mark by which to notice this degradation of the soil. It has been observed in very level districts after a long period of cultivation with but scanty manuring, that an outfall into the natural drainage of the country, has by degrees become more difficult, in consequence of the slow depression of the surface.

Since the introduction of draining tiles, however, there has been produced a mark by which this lowering effect of culture can be determined. If tiles be placed say 20 inches from the surface, and if it be true that culture carries off so much of the soil, then it is evident that at the end of a number of years the tiles will not be so much as 20 inches from the surface. From the comparatively scant introduction of tiles, this fact has not been hitherto sufficiently apparent as to be noticed by ordinary observers, but it is nevertheless a fact.

When very shallow draining has been proticed, as was generally the case forty or fitty years ago in England, this degradation of the surface soil becomes of course more apparent, and several illustrative instances have of late been adduced. A farm that had been in possession of the same tenant, or his family, for a lease of _1 years, and the greater part of another of the same duration, was drained early in the first lease, and the tiles put, as when then the ordinary custom, less than a foot deep. Being situated near a largo town, the crops, or nearly all of them, including the straw of the cereal grain, were sold off the farm. During the course of the second lease the farmer and his ploughmen were astonished at coming, by deeper culture, nearly on the tiles in the course of their ploughing. The explanation they gave of the matter was, that from some occult course the tiles had risen ; but the true account of the matter is unquestionably, not that the tiles had come nearer the surface, but that the surface had gone nearer to the tiles. In other words, a portion of the soil had been converted into crops. without having the same amount artificially added, and these crops had been sold in the town ; and the inevitable consequence was, that the surface of the soil had been lowered.

The same lowering of the surface is constantly going on in our new lands, to which no manuring substances are applied, and which, by repeated cropping and the treading of horses in the processes of cultivation, gradually become more and more consolidated. The degree of surface degradation will of course depend much on the character, chemical and mechanical, of the soil, and the course of cropping to which it is subjected. Under any view of the subject, it becomes apparent that to maintain the permanent fertility of soils, they must have restored to them artificially the inorganic elements removed by the crops; this, however, can in most cases be accomplished by opening up the subsoil, draining and deeper cultivation, to the beneficial action of air and moisture.

DEATH OF SIR WILLIAM HOSER.—This veteran leader of botanical science in Britain died at Kew on the 12th ult., in the eightieth year of his age. He was born at Norwich in 1785, and devoted himself to the study of botany from his early youth. In 1520 ho was appointed Regius Professor of Botany in the University of Glasgow, an office which he most efficiently filled until he was transferred to the Directorship of the great national borticultural establishment at Kew, in 1841. "These celebrated gardens attained under his estimable management their present unri valled position, and were made the centre through which all that could be found us-ful in the plant world were transferred to autable climates for acveloping their properties and values, in the numerous colonial possessions of Great Britain."

The Exhibition of the Royal Agricultural Society of Ireland.

THE annual show of this society recently took place at Clonmel, in the county of Tippetary In most respects it presented a marked improvement as compared with the Sligo meeting of last year. Clonmel is situated in a rich district where darry farming is extensively practiced, and its commercial prosperity contracts favourably with most of the provincial towns in the southern and midland parts of Ireland. Some apprehension was felt regarding the success of the meeting, in consequence of the alarm and excitemeet produced in the grazing districts of Ircland, by the fatal cattle plag le in Britain, and certran timid supporters of the society actually proposed to memorialize the Lord Lieutenant, for the purpose of having the show postponed till the danger should have passed. The Secretary's announcement, however, that no English or Scotch cattle were entered, put an end to the alarm, and rendered any precautionary measures unnecessary.

There were seventy-nine entries in the Short-horn class, and, without exception, the animals exhibited were highly creditable to their owners. The first prize aged bull, "White Chieftain,' we learn, is an animal of great subsiance, as was also "Professor Miller, the second in the same section. The display of cows and heifers was particularly good. There were few Herefords, bit those shown were well bred, and had descended from the best blood in England. The show of horses was only moderate, and the re. peated entry in the judges' books of " want of merit" plainly testified the opinion those gentleman had tormed of the sections. The sheep classes were well filled, the English type of Leicesters prevailing. 'An frish show of swine, particularly of Berkshires, is always good, and the Clonmel Royal, held in a district famous for its cure of bacon, proved no exception to the rule. The show of implements was small, and showed a great decline as compared with past years. The centre of a rich agricultural country such as Clonmel, might reasonably have expected a richer treat in this department ; but, although hundreds of acres of ripe corn waved in the breeze within sight of the show grounds, no trial of reaping machines took place.

We are informed that Mr. Joseph Chisholm, of the 2nd Concession, Hamilton, has taken two crops of large globe turnips off the same land this season.

AGRICULTURAL EXHIBITIONS.—We are requested to make the following announcements :—The show of the Garafraxa Agricultural Society will take place in the village of Douglas, on Friday, September 29th inst. The united societies of Nichol and Pilkington, will hold their annual exhibition of stock, produce, manufactures &c., in the village of Fergus en Wednesday, October 4th. The union exhibition of the Last Durham and township of Hope societies, will be held at Port Hope, on the 4th and 5th days of October, instead of the 3rd and 4th as previously announced.

IMPORTATION OF PURE LEICESTER RAMS .- A COIFESpondent in Waterloo complains of degeneracy in Canadian samples of this breed of sheep, and proposes what he considers "one of the grandest schemes" for importing from time to time some of the finest specimens of the breed from Britain. He would have a Provincial Society formed for the purpose, and two persons deputed every three or four years to purchase the choicest animals, which are, on arrival, to be distributed among the various counties in the Province according to a system to be adopted for the purpose. We do not think the Leicesters are so open to the charge of degeneracy as our correspondent imagines, and in our view their importation may safely be left to private enturprise, as is the case with other breeds of sheep.

Agricultural Intelligence.

(FOR THE CANADA FARMER) Notes from Lower Canada.

PRANKLIN, Huntingdon Co., C. F., J September 5th, 1865.

APPLES.

NOTWITHSTANDING the severity of our winter climate the thermometer falling occasionally to 40 degrees below zero, apples can be raised, and raised successfully, and, with those who go into apple-growing intelligently, and on an extensive scale, constitute a very large item in the total of annual profits from the farm I was somewhat amused to see in a back number of THE CANADA FARMER, among some speculations on the suitability of various kinds of apples for cal ture in Canada, the idea thrown out that, on account of the severity of the climate in this section of the country, we would have to seek in the Siberian crab and its seedlings a race of apples sufficiently hardy. The writer was misled by the fact that, in the adjoining County of Chateauguay apples do not thrive. But their failure there -- and even in this county. along a belt of country not half a dozen miles from where I am writing is due, not at all to the severity neighbours. Others have been putting in root of the clima e, but to the nature of the soil, which is graded trees from the Montreal muscles ; and a a heavy clay, with a cold, wet subsoil Whether it is possible, by proper methods of cultivation, to two seasons, have been doing a thriving business in make apples grow there or not. I am not prepared to supplying orders obtained in this neighbourhood, say ; but, through this higher tract of country, we In the spring of last year a few dwarfs of pears. say ; but, through this higher tract of country, we say: but, through this inglier tract of country, we have an apples, were among the supply from have an excellent soil for the purpose, and find the Rochester, and during this spring a much larger climate sufficiently favourable for a very large number [supply of these dwarfs, from the same quarter have of the most approved and favourite varieties. Good been obtained and set out. I doubt very much howprofits can be realized even from the native ungrafted trees, taken indiscriminately from local nurseries, in warmer climate. In my own orchard 1 have only a which they are raised from the seed. The French people from the Counties of Chateauguay, Napier-obtained from Rochester some dozen years ago, and ville, and where they grow no apples to speak of, a neighbour (who tends his trees very curefully) was people from the Counties of Chateauguay, super-ville, and where they grow no apples to speak of, come round with carts in the fall and pay for them in the orchard 25 or 30 cents a bushel. At this rate, in ordinary good fruit year, they are much more profitable than potatoes, as such trees get very little | treatment. fitable than polaroes, as each trip generally made. Some of those who set out orthats in such a set on the most care, and the ground they occupy is generally made bourhood have rather singular ideas as to the most bourhood have rather singular ideas as to the m

The grafted variaties also are being gradually introduce1, and yield well with good culture, and troduce 1, and yield well with good currier, and sector as the star is the sta tended orchard of Mr. James Stewart, at Rockburn. In the adjoining Township of Hinchinbrooke. Mr. steady the tree and pack down its roots, and the tree Stewart is well advanced in years, and, having sons thus planted is expected to thrive. The argument is, to take care of his mill, has latterly made skilled that before its roots require to stretch away in search fruit-growing his particular hobby, to which his cir cumstances enable him to devote a large portion of his time. He tells me that he has not found any of to manure to enable them to push their way among the varieties of the apple embraced in the catalogue (the surrounding stones. Apple trees planted thus of Mr Bailey, of Plattsburg, as suitable for northern New York, too teader for this part of Canada. I have yet to be convinced that it will pay to set out found the Siberian crab trees pretty numerous in his orchards in this fashion to anything like the same ex-orchard placed there, however, not for their own fruit, but as stocks for the grafted fruit, which, when grafted on the Siberian crab, he finds to be harder. The profits of apple-growing, if conducted with and to hear better than on the common stocks. and to hear better than on the common stocks. Among the apples cultivated successfully by Mr. Siewart are the Farmense, the Twenty-onnee apple, the Red Astrachan, the Builey Sweet, Sops of Wine, which he finds a most vigorous grower, soon taking 1 where he finds a most vigorous grower, soon taking bushels from an orchard of 150 trees, covering, per-nearly the whole tree to itself, and yielding a haps, a couple of acres. These, sold at even 25 cents a pleasant finit, ready for use in August and Septem bushel, would have yielded \$200, equal to the value ber; the Lady Finger, the finit of which grows of the product of 15 acres of wheat, while the finit, almost too large, being liable to be knocked down acre for asre, did not require a tithe of the labour by wind; and the Blue Pearmain, liable to the same and expense necessary for the production of the objection as the Lady Finger. He has not tried the grain. But I have no doubt that a higher sum than 'Northern Spy,'' having learned that it is a "shy.' I have mentioned was realized, as some of the trees beare'' a scrious objection in the eyes of an old man when selecting trees to set out.' The Farmense is his nearest market town as much as eighty cents a bushel. favourite. It is a good bearer, and yields fruit of, there was an orchard of some 500 bearing trees ing from the time it is gathered, and enduring winter a late as the month of March. The St. Lawrence, vigorous young trees are now growing up to take the King of Tompkins County, Bourassa, and many other 'andard varieties, are also grown successfully.' Arrive to a star were then killed. 'Arrest as a late as the month of March. The St. Lawrence, vigorous young trees are now growing up to take the King of Tompkins County, Bourassa, and many other

Some six or seven years ago Mr.Stewart's orchard, and many others in this vicinity, suffered most severely from a violent hail-storm, occurring in the fall of the year. The hail was driven with such fury as to indent even the rail fences, and it smashed the bark of the trees to such an extent that some good orchards were almost totally destroyed. The bark is apt to suffer from the south-west over. The bark is course, fall upon the tree during the portion of the day when the heat is most scorching. To protect his orchard agains' this danger, Mr. Stewart has all his young trees, and some of the older ones, sheltered by sound rives, and some of the other ones, shere of by a strip or a complete envelope of bass-wood bark, which acts he says, not only as a preventative of injury to healthy trees, but as a cure for those which have suffered the injury. He showed me one of those which had been roughly dealt with in the storm to which had been roughly dealt with in the storm to which I have referred, and, although the tree had been injured almost to the core, the sheltering back had not only stopped the spread of the canker, but had caused the growth of new and healthy wood about the wound, and the tree this season has as healthy and productive a top as almost any other in the orchard.

The effects of the hail-storm were a severe damper on the exertions of those who had previously been the most successful fruit-growers in the district, and for some years not much was done in the way of putting new trees in the place of the old shattened ones But, within the last two or three years, the interest in fruit-growing has revived, and there is now almost a mania for planting apple trees. Some plant out native trees from their own nurseries or those of their considerable number have been planting trees from Rochester nurseries, whose agents during the last few survivors of a considerable number (all standards)

profitable mode of going to work Assuming that apple trees thrive best in hard, stony ground, they select as the site for their orchard an acre of two of the stoniest portion of their farm, through which no

orchards in this fashion to anything like the same ex-tent as planting them in good soil, well prepared and afterwards kept in proper cultivation. The profits of apple-growing, if conducted with tolerable care, are so great that it is surprising the orchard should generally bear so insignificant a pro-portion to the size of the farm. One of my nearest neighbours has obtained in one year as many as 800 bushels from an orchard of 150 trees, covering, per-haps, a couple of acress. These, sold at even 25 centsa bushels would have violded \$260 coupl to the value

The English Crops of 1865.

A necent issue of the Agricultural Gazette gives in a tabulated form reports of the harvest of 1865 from correspondents. In an editorial it is stated : "The returns from our correspondents as to the character of the crops now being harvested, give but a sorry account of the corn fields of 1865. Excepting the autumn-sown clay lands, all grain crops are this year much below their average productiveness.

Wheats on the lighter soils and loams are generally wheats on the lighter soils and loams are generally inferior. Barley on the lighter and thinner barley soils is much below an average, and, though probably the best erop of the year, it, too, as a whole, is inferior. Oats, excepting the few instances where winter sown, are the poorest crop we have had for many years. Beans and peas are generally below their usual wield." vield.

The following is a tabular statement of the returns : NUMBER OF RETURNS.

Crops	Under Average	Average	Over Average	Total
Wheat .	76	0	233774 O	195
Barley	40	112		180
Oats	154	27		183
Beans	64	68		126
Peas	37	67		110

The exceptions to the general failure are in the case of clay-land wheats, and notably in that of wheat on the poorer clays, which is almost everywhere un-usually good. The barley on the better class of bar-ley solls is also a fair crop wherever early sown. Peas are a good crop in some districts. The root erop is a great improvement over all southern and midland England over that of last year. Man-golds are generally good, and Swedes and other tur-nips are tolerably promising. In the north and all over Yorkshire and Northumberland they are, however, being destroyed by the grub. In the dairy dis-tricts there has been generally a good crop of grass, and the hay has been well made. All over the cast-ern and southern counties the hay crop has been unusually short.

FLAX.-J. W. Langs, Esq., of Windham, brought a load of flax into town on Thursday last. It was the first load, we believe, that has ever been taken to market in the County of Norfolk. The load weighed about a ton and a half. Simcoe Reformer.

PRODUCTIVE SHEEP .-- The Kingston Journal states Mr. D. W. Dubois of Libertyville, Ulster Co., has 27 ewes, from which he raised this season 40 lambs. He sold the lambs for \$201. From the ewes he sheared 1144 pounds of wool, which sold for \$65.41, making a total of \$269.41.

COTSWOLDS FOR THE UNITED STATES .- The Weekly Ohio Farmer of the 26th ult. contains the following :-"Mr. William Squires of Copopa, Lorain county, has just returned from Canada West, where he has been examining the flocks of Cotswolds and Leicesters. While there he purchased of Mr. F. W. Stone, of Guelph, a Cotswold ram and three Cotswold eyes. all yearlings. The ram weighs near three hundred pounds."

We are informed that Mr. A. McKinnon, of FLAN the 8th line Esquesing, sowed this spring three and a half bushels of flax, and has made by the sale of the flax and seed \$61 This is surely as profitable as wheat growing. We have also been shown a fine specimen of hops grown on his farm, as he has grown a large quantity this season. We understand that hop growing is on the increase in Esquesing .- Jfilton Champion.

CRADLING EXTRAORDINARY .-- We learn from the Hastings Chronicle that Mr Archibald McLellan, of Carador, lately undertook, for a wager, to cradie eight acres of spring wheat between sunrise and sunset. The trial came off on the 9th ult., on a field of wheat containing SJ acres. Mr. McLellan commenced the work at 5 o'clock A.N., and at 18 minutes to 5 a clock r w the last stroke of the cradle levelled the last portion of the wheat, and thus finished the field— the whole time occupied in performing the herculean task being eleven hours and forty-two minutes.

THE UNITED STATES WHEAT CROP OF 1865 .- Mr. Newton, of the Agricultural Department reports a deficit of over twenty-six million bushels of wheat in the crop of the present as compared with last year's, namely :-

('rop of 1864 Estimated crop for 1865	Bushels. 160,695,82 134,454,12
Decrease	26,241,69
New England and Middle States	657,38
Maryland and Delaware	1,719,57
Western and N. W. States.	23,864,74
Total	00.041.00

26.241.698All other crops, particularly corn and potatoes are All other crops, particularly corn and potatoes are most promising, except tobacco, of which consider-ably less has been planted. The oat crop is very large, and the hay crop in the West has been much injured by wet weather, but is still abundant.— Weekly Ohio Farmer.

NICHOL AND PILKINGTON AGRICULTURAL SOCIETIES.-We learn from the British Constitution that "the Directors of these Societies met in Hamilton's Hotel, Elora, on Friday last, 11th instant, for the purpose of uniting the resources of the two Societies in order to

hold a joint show—to arrange the prizes, appoint Committees, &c., for said show. "Alexander Watt, Esq., was appointed to the chair. It was resoloved that persons joining the Society after the 1st of June last, shall, if they obtain a prize at the show, return the sum of 50c, out of their prize money to the Secretary as an conjugated

at the snow, return the sum of acc, out of their prize money to the Secretary as an equivalent. "The prize list was then considered and revised, some alterations from last year's being made. A few of the rules were also changed. In regard to therough of the rules were also changed. In regard to thorough bred cattle it was resolved that they date their age from show to show and grade cattle from the 1st January previous to the Show. Calves must have their age marked upon the ticket. The bill as amended was adopted, and 100 copies ordered to be printed. It was then resolved to hold the Union Show at Fergus on Wednesday, 4th October next." In appointing of Judges of Produce, a slight dis-cussion arose as to the propriety of having the grain weighed. Some objected on the plea that large grain and dark in colour might take the premium it weigh-ed, while another sample, not so large, but much fairer in colour would not get a prize, and thought

fairer in colour would not get a prize, and thought the matter of weighing should be left to the discretion of the Judges. We observed during the whole of the proceedings that harmony and good feeling prevailed between the sister-societies. The prize list this year speaks well, and as soon as the Managing Committee reports to the Secretary where the dinner shall be held, the bills will be issued."

The Kousehold.

Tanning Small Skins,

Eus. RCRAL NEW-YORKER: -Seeing an inquiry how to tan small furs, I will give you my plan. If green, sprinkle the flesh side with saltpetre and alum. (ground fine.) then fold the flesh sides together, roll it up, tie it, and lay it away one or two days. Then unfold and rub with paper or something, as dry as possible, and lay them out to dry. Work and pull them when most dry, so they will dry soft. Dry skins may be treated in the same way, by first soaking till soft, and wringing out as dry rs possible. I can make such leather as the sample I send you from sheepskin, by the following process, which is also sheepskin, by the following process, which is also good for furs and small skins :- First, trim the skins of all uscless parts; second, soak till perfectly soft, and flesh them well; third, wash thoroughly in suds of soap and sal-soda to free from grease, and rinse in clean water to free from soap and soda, then rub them as dry as possible; fourth, dissolve two ounces of salt in about a quart of water, and add three quarts of sweet milk (or four quarts of bran water), and one ounce best sulphuric acid; fifth, put in the bing and stir briebly forth or flue minutes water), and one ounce best sulphuric acid; fifth, put in the skins and stir briskly, forty or fitty minutes. and take them dripping from this and put them in a strong solution ofsal-soda, and stir as long as it foams. Rub them from this as dry as possible, and hang in a cool place to dry; work them when nearly dry, and they will dry solt. Lime and ashes will take off fur, hair or wool, and sour milk will take ou: the lime and ashes. The black fur was tanned by the tirst pro-cess (with saltpetro and alum). M. BAKER. Perry Center, N.Y., Dec. 10, 1864. REXARES.—The samples of tanned skin accompany-ing this lotter are very finely prepared. The sheep-skin is very strong, white, and soft. Our corres-pondent has our thanks for his communication; and, pidging by enquiries received, many of our readers

julging by enquiries received, many of our readers will feel obliged.-Rural New Yorker.

Personal Neatness.

Some may say that it is quite out of the question for farmer's wives and daughters, who have so many duties to perform, to always look tidy. Some do say so, and I have often heard them ; but such declarations do not, in my opinion, militate against the general principle. A wife or daughter can be personally neat, no matter what duty she may be employed at. Those who allow themselves to appear negligently dressed on the plea that they have something to docooking, washing, scrubbing, whitewashing, &c., are pretty sure to be habitually untidy. A torn, faded, soiled, had-fitting gown, with a sun-bonnet in keeping, worn in the house or out of it, slipshod shoes. Ac, no appearance of a white collar, share squashed upon the head, and plenty straying about the neck-do not give the husband, if he possesses any idea of cleanliness himself, a very elevated idea of his wife's attractions; nor will the daughters, who may be equally delinquent, impress the young men of the neighborhood very favorably. I am a wife and a housekeeper, and have been a dolt where the transformer and the weight

daily worker for twenty-five years in my household, but I have never seen the day when I could not take time to attend to my personal appearance. System and a desire to be always cleanly, will not only afford the necessary time, but will make the labour one of the highest pleasure. My husband never has had, nor never shall have, occasion to twit me or the girls in relation to a matter which every woman's pride and self-respect ought to provide against. Will not then my sister housekeepers give this ques-

tion of domestic propriety and respectability their serious consideration? They should remember that it not only concerns themselves, but especially their daughters, and in no small degree heir sons also. The bible tells us that " cleanliness is next to godli-ness," and I believe in the bible.--MARTHA, in Germantown Telegraph.

How Sweetmeats are Made.

WE extract the following from a very interesting article on this subject, in a recent number of Once a Week :--- "What an atmosphere of dust meets us as we enter the manufactory! The shop we are in is powdered from rafter to floor with a fine impalpable powder, that reminds us of the interior of a flour mill. and the workmen are moving ghosts, even the fringes of their evclashes are whitened to their tips, just as the hoar frost whitens every tiny filament it can lay hold of. The dust is that of fine starch, the substance used as a matrix for a certain class of cast sugar goods. We are in that part of the factory now where those "sweets" are made which are demi-opaque -like snow-water frozen. The sugar is not boiled to a great heat, but is allowed gently to simmer on the fire, whilst the moulds in which it is to be east are being prepared. This is done by spreading the fine starch over boards, quite evenly, and then inwerting another board over it, studded with the forms it is intended to cast. The man we are looking at is about to make annulets, or sugar rings, and as he lifts the inverted board from the smooth starch, we see that it is covered with moulds of these indented rings placed at regular intervals, and as close together as they can go. Another workman now approaches with a tin receptacle filled with sugar, fitted with six sponts. With great skill and knack be pours out the sugar, and fills ring after ring indented in the starch, as fast as his arm can conveniently travel from left to right. Not a drop is spilt, the sugar standing in each ring with a slightly curved surface, just as a drop of water would do that had fallen upon dust. These starch moulds are used for all those sweet-meats which contain fluid or liquor in the interior. meats which contain fluid or liquor in the interior. The liquor is mixed with the melted sugar indiscrimi-nately, and both enter the mould together, but, curiously enough, the latter instantly crystallizes on the outside of the former, and thus, by a natural law, the liquid flavouring-essence becomes imprisoned. It was thought very foolish of George 111. to ask how the apples got into the dumplings, but we have little doubt that the manner in which these liquors get in-side the sugar plums has puzzled many a head wiser than his. The casting of these liquors sweets employs a large number of persons, and the most extraordi-nary moulds are obliged to be invented to meet the requirements of the trade. Balmoral boots, Tyrolese bats, scissors, knives, fish, and all kind of things, animato and inanimate, are thus produced, the only limit to the design being the size and weight of each article."

CORN PANCAKES .- Boil eight or ten cars of cornpass a sharp knife down each row, and with the back of the knife or a spoon scrape off all the corn, but be particular to leave the hull on the cob. One gill be particular to leave the hull on the cob. One gill new milk, two teaspoonfulssalt, two eggs well beaten, and as much flour as will make a batter as thick as griddle-cakes. Then add the corn. Have the lard bolling hot, and drop a tablespoonful at a time. When brown, serve hot for dinner. - Ex. To Parserver The

To PRESERVE TOMATOES .- Prof. Mapes says :- " If tomatoes are slightly scalded and skinned, and put into bottles, and those set in boiling water for a few minutes, and corked and sealed, the fruit wilk keep as long as desired, and if eaten when first opened will have the same taste as when just picked from the vines." Probably a better way is to peel the the vines." Probably a better way is to peel the tomators and boil slightly so as to expel the air, then put in heated bottles and cork at once. All depends on the exclusion of the air. The more perfectly this is done the longer fruit may be preserved

To Stew PEARS .- To every pound of pears when pealed put half a pound of leaf sugar. Put the fruit into a stew-pan, and cover it with cold water, and shut the lid quite close. Stew the fruit gently till

shut the hid quite close. Stew the fruit gently till tender, and then add a few lumps of sugar. After slewing the pears two or three hours, put in the cloves—twenty cloves to six or eight pounds of fruit and the peal of two lemons. Keep adding the sugar by degrees. If the syrup is much wasted add a little more hot water They require stewing about two hours, very gently. When they are nearly done, add the juice of both lemons—it will add to their flavour and brighten the syrup.—Rural New Yorker.

WATER-PROOF BOOT SOLES .- If hot tar is applied to boot soles, it will make them waterproof. Let it be as hot as the leather will bear without injuring it, ap-plying it with a swab, and drying it in by the fire. The operation may be repeated two or three times during the winter, if necessary. It makes the surface of the leather quite hard, so that it wears longer, as well as keeps out the water. Oil or grease softens the sole, and does not do much in keeping the water out. It is a good plan to provide boots for winter during summer, and prepare the soles by tarring. as they will then become, before they are wanted to wear, almost as firm as horn, and will wear twice as long as those unprepared.

A PREPARATION FOR PRESERVING LEATHER ---- We translate from the Gerber Courier a receipt for a preparation which is said to insure great durability to leather, and to make it very pliable and soft. It con-sists of four articles, tallow, soap. rosin and water. These ingredients are prepared as follows: Twenty-one parts of tallow are melted in a vessel, three parts of rosin added, and the two when melted mixed well there there there are the prepared as the parts of the two sets of of rosin added, and the two when melled mixed well together. In another vessel seven parts of good washing soap are dissolved in seventy parts of pure rain water. After it is dissolved and the mass heated to the boiling point, we add the part prepared before, let it boil once more gently, and the preparation is ready for use. It is especially adapted to boots, harness leather and belting.—Shoe and Leather Revorter.

Sore Eves .- Almost every person, during some period of his life, has been annoyed more or less with inflamed, diseased, or weak eyes. Many of them are made worse by the haphazard application of severe remedies. There are certain simple application of severe remedies. There are certain simple applications, however, which can scarcely injure, and are nearly always relieving or beneficial. Among these, simple cold water takes a prominent rank. It is, however. cold water takes a prominent rank. It is, however, often applied by washing or rubbing—the friction of which sometimes overbalances the remedy. A good way to apply it, when the apparatus is at hand, is by means of a fine jet of water, driven from a pipe through a finely perforated rose, so made as not to spread the water, but to throw the jets nearly parallel. In the absence of this a good way is to place two or three thicknesses of fine linen cloth a little larger than the cyc, dipped in cold water, on the closed lids. If pain is felt in the ball, the addi-tion of a tenth or a twentieth part of laudanum is the closed lids. If pain is felt in the ball, the addi-tion of a tenth or a twentieth part of laudanum is relieving. But we have found no better way of applying any liquid to the eye, than to take it in a good sized teaspoon, and hold it in a level position up against the closed lid, the bowl of the spoon very nearly fitting the outside of the eye. In this way the eye may be washed without any friction or challing whatever. If fine dust has passed into the eye, it may be easily washed in this way, by opening and shutting the lid a few times, while within the spoon. Some-times water containing a small portion of salt is found good for strengthening weak eyes, and this may be readily and comfortably applied to the open eye by means of the spoon just described.—Country Gentle-man. LAMES' DRESSES.—Ask a man and a women to tell you who is the best dressed girl at a ball, and you will hardly ever find them agreeing in their answers Go a step further, and compare the costumes which have been selected, and you will discover almost to a certainty, that the woman has singled out the most expensive dress in the room, whereas the man has only asked himself which is the most becoming. The one has suffered herself to be so impressed by the richness of the material, the elaborateness of the embroidery, the costliness of the trimmings, that in the end sho has found it simply impossible to leave these things out of the calculation. The other, happy in his ignorance, has looked only at the general effect and has probably given the preference to a young hay whose gown has no other merits than those of being scrupulously neat, becomingly cut, and perfectly well made.—Saturday Review.

The Max who is in Dear.—Of course, it is ridiculonsly simple in me, but how can a man eat, drink, sleep, and be jolly under the pressure of debt? How on earth can he walk forth well-apparelled and appointed, and face the man whose unpud-for trousers he is wearing? How dare he smile at his butcher, or his grocer, who are at that minute ten or twenty guineas a-piece poorer for his past dinners and teas? How dare he pat his children on the head when he knows that if he should die that night their fature is wholly uncated for? How on earth can he enjoy any luxury, trusting only to his dodging instincts, if the day of pecuniary reckoning should studdenly come? How can he face the rascally reflection of himself in the looking-glass long enough to the the cravat which ought to be choking him? How can he have the impudence to go among honest, upright people, and expect cordial recognition, or any recognition at all? How dare the brazen thief, in his line clothes, look into the frank, honest face of the swarthy mechanic, who has proved himself a man by that day's hard labour? I can't see. How can he pass a stationhouse or a policeman without asking that summary justice may be the tot out to ham, rather than to the poor, finendless, ragged wretches, whom adverse cir cumstances seem sometimes to have so hedged about that nothing can help them? I look upon such men with a wonder that never abates.—Funny Fern.

Youltry Mard.

Egg Packing.

We have received from Messes. Morrison, Taylor & Co., of this city, the following useful directions for packing eggs. When this operation is carelessly or imperfectly per.oraned, a considerable proportion of the eggs is sure to be smashed, and the cream of the profit, so to speak, is lost. We therefore commend the timely instructions, which we quote below, to the careful perusal of our poultry rearers:--

Pack in old, by, sweet oats, and in flour barrels, or strong box. Better to pack in new barrels and charge for them, than to run the risk of breakage, by, using old hoopless barrels and worn chimes. Commence by driving the hoops towards the centre of thbarrel, the lower ones upward, and the upper ones downward, nailing fast to keep their places. Put in oats to the depth of 23 inches, and let the first layer of eggs consist of 44 dozens, or 9 hand, cover with oats, rubbing them well in with the hand, and pressing the sides of the barrel with the finger end-Have a lid--of a cheese hox or butter firkin--a little lees than the interior of the barrels, press on with one foot and shake the barrel with long, heavy shakes; this done, take out the lid and put on another layer of eggs, increasing the number to the centre of the barrel, and afterwards decreasing it, follow with covering of oats and the pressing of the hand and lid as before, until the barrel is full, which when properly done, and, providing it is an ordinary flour barrel, should contain 1.3 layers, or between 75 and 50 dozen. Care should be taken to keep the ends of the eggs about half an inch from the barrel. When the eggs are within two inches of the chime, the usual quantity of oats should be put on, afterwards some soft straw--must be sweet--sufficient to render it a difficult matter to head the barrel. The neglect of this latter particular is the cause of three-fourths of the breakage in the package of eggs. See that the langs are properly nailed at both ends of the barrel. Our shipments to New York of eggs packed on the above plan have carried in comparative safety; and country dealers and packers by adopting this method would be well repaid for their trouble, in the advance of one or two cents per dozen on their consignments, to this or any other market.

A New Incubator.

SEVERAL of our correspondents have addressed to us enquiries respecting the construction and mode of action of an apparatus for hatching the eggs of poultry, by means of artificial heat. Not having any practical knowledge of incubators, we have hitherto been unable to furnish our readers with any reliable information on the subject. A recent issue of the London Fadd - a very high authority—contains the following description and illustration of such a contrivance, which we gladly by before our readers unabridged, in order that they may judge of its construction and its merits for themselves z_{i-}

said of the ducks, guinea-fowls, and pheasants which had been hatched in the machine. We did not see one sickly or diseased chicken of any age in the large poultry yard a tached to the establishment, and can therefore conscientionsly recommend the apparatus as well adapted for hatching, where numbers of fowls or pheasants are required.

"Mr. Upham, of 5, Houghton-place, Harringtonsquare, N.W., the proprietor of the patent, is about to exhibit the machine in action in town; in the meantime, our readers may form an accurate idea of its general character and structure from the engraving, representing a 200-egg machine, with four draw-

ers each capable of containing

fifty hens' or seventy pheasants'

eggs. In the woodcut one of the

drawers is shown partly pulled

out and under the nearer drawer the ingenious but simple lifts

by which it is raised to the required height are shown. In front are the two artificial mothers, one of which is raised up to show the depending locks of wool, these are both covered with flaunel. In front is the

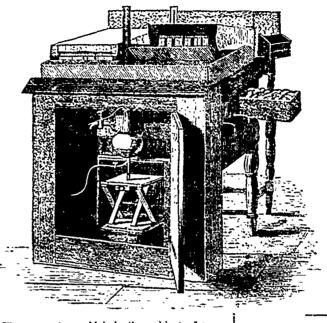
hatching tray, and the feedingcage is shown at the back. The

stool by which the gas or lamp is raised to the required height

is seen through the open door. the chimney to carry off the

products of combustion from the lamp, and the thermometer by which the temperature is

regulated, require no further



"The apparatus, which is the subject of a new patent by Mr. Minasi, is a great improvement on his original invention, and appears in its present state to be as complete and as successful in its working as it is possible for any instrument of the kind to be.

The heat necessary for the incubation and rearing of the young chickens in the earlier stages of their growth is derived from gas, or from the combustion of naphtha in a lamp so constructed as not to require diention for many days. The heat so generated rarms a reservoir of water, the underside of which is corrugated in a very ingenious manner, so as to support, by the aid of wires, a series of small narrow sandbags, against which the eggs are pressed. The close contact of the whole of the eggs (whatever may be their variation of size) with the warm sand is insured by their resting on cushions of spiral springs: these are contained in drawers or sliding trays, which can be easily drawn out from under the incubator for the purpose of examination. As the eggs hatch they are removed to a part of the apparatus above the reservoir. This is most ingeniously constructed : there is a small tray for the chickens until such time as they are thoroughly dried and strong, when they are passed under a kind of artificial mother, which is peculiarly constructed in imitation of the plumage of the hen; it consists of a number of woollen wicks. each about four inches in length; these hang down loosely between the legs of low stools placed over the warm reservoir. The chickens nestle between the pendant locks of wool, which thus form an admirable imitation of the warm feathery plumage of the parent hen. Connected with this part of the apparatus is a large feeding-cage, into which the chickens run for food, water, and exercise.

"We have recently seen one of these machines in active operation, and examined and handled many of the chickens hatched by it, some of which had been reared by the machine itself and others under hens. The chickens were of all ages, and wero strong, healthy, and vigorous. The same may be

The Cock of the Walk.

description."

You strut about by field and brook And think your gait and plumage show you, And yet, for all your lofty look, Old Cock, I know you.

With broist so sleek and eyo so bright, As if you were the pink of henour, You're studed as full of wrath and suite As Bishop Bonner.

Yon stripling bird, yo ir son and heir, And trim as you in hinb and feather You cuff and tamble everywhere In overy weather

To-day when he had dono no harm, But stretch h.« thr m and mock your bawling, You ruffed your neek as big's my arm And knocked him sprawling —

Bown in a twink as straight's a rail— Astonishe I into being civil— Then up and off with head and tail

B th on a level.

But though your provess you may boast, Au I though in dreary dumps so sad ho-I know n.4 which to pity most,

The son or daddy.

You'll have your day to strut the floor Cock-sure, with pluck and voice aspirant, But time will recken up your score,

You hen-roost tyrant ! It is not that the market-man

May tempt me for your tricks to sell you; It is not of the dripping pan_{r} -

But this, I tell you:

All times and climes and books record The Scripture truth -we can't deny it-They that unsheathe the oppressor's sword

Shall perish by it. Bowaro the days when old and lamo

You drows the eye and droop the pinion, Your royal spirit level-tame With time's dominion.

Think you this bantam, now so green,

Will then forget these deadly grudges? He'll give your memory, I ween,

Some sat. ge nudges .- Roston Cultivator.



The New Plant, Libonia Floribunda.

LIBONIA FLORIDUNDA is a South American plant, not unlike an enlarged Cuphca, but with the flowers more conspicious and the habit crect. It comes from Brazil, but it is also found on the elevated plateaux of the south, so that there is good reason to hope that it may. like the cupheas, serve as a bedding-out plant in summer.

It is a charming bushy semi-shrubby plant, with a tubular corolla, bright red at the base. passing into bright yellow at the mouth. It flowers abundantly, the whole plant being covered with its bright pendent corollas. Our figure represents one of its branchlets.

M. Lescuyer, in the Norticulleur Francais, montions that it had passed the winter at Paris in a greenhouse without heat, but it requires during the winter as much light and air as possible. It propogates easily by cuttings .-Scottish Farmer.

Effects of Destroying Small Birds.

Tue phenomena of the present season are remarkable. If we go for shade into the woods in this leafy month of June, we stop short hefore thickets where the stout young oaks are as bare as in January, or show only the skeletons of leaves, where caterpillars are still searching for some remnant of moist green food. If we meet the country doctor in his rounds, he says that he cannot ride in shaded roads without his hat, in the hot noon, because he finds hat and coat-collar thickly strewn with caterpillars, which have dropped upon him as he passed. In the parson's garden, the gooseberry-bushes show some withering fruit, but no foliage; and instead, a show of caterpillars actually covering every twig. In the squire's pleasure-garden the ladies are mourning over their roses, almost every petal of which is pierced, or the very heart eaten out by some grub or fly. On any grassy bank where the wayfarer would like to rest there is such a coating of white grubs that he turns away in disgust. If we go out in the moonlight, a dozen cockchafers knock against our faces in five minutes; and we foresce the profusion of fat white worms which will, in consequence, be turned up by the plough next year. The wall fruit has already received the wound which will turn to decay before the autumn, and the

canker is planted in the apples and pears, which will | and bright, amidst a series of damaged orenards and be deformed and seamed, and hard, and without flavour at croptime. There never was a finer agricultural prospect, but for this ; but the farmer dreads seeing the mangel leaves blown and corrupted by the vast families of grubs hidden in their substance, and the collars of the roots infested by big enterpillars, fattening on the sweet juices which he intended for his cows.

It is well if he knows that the rooks can help him in this last case, and that they do not want to cat the root, as ho once believed, but the destroyers of the root. These melancholy sights are not, however, all that is to be seen .- They present themselves in districts where there are sparrow-clubs, and men and boys who shoot a little bird whenever they have a

rural constable, or any lounger who has nothing else to do, presses his services on the residents, to net the ivy on house or wall, to rout out the spaces under the caves, and make a clearance of every sparrow. finch, thrush, swillow, or other winged creatures. Where the pest is not found, it is where these bird destroyers are not allowed their will. When refused civilly or otherwise, they sneer or stare, and find something to do in calling the neighbours to witness that the silly proprietors will have no green peas. nor anything that grows in juicy shoots ; that the cherry-trees and the roses will be disbudded; that only the hardest green currant or two will be left on each bunch; that the gooseberries will be found sucked hollow, and a full tithe of the cherries and strawberries gono.

Such is the spring prophecy; but when summer has come-this particular summer-strangers stop to wonder at a garden here and there where all 's green



LIBONIA FLORIBUNDA.

kitchen gardens, and bare copses ; and the paradise is sure to be the place where the birds have been let alone. It is true, the rows of peas have had to be covered for a while with thorns; and some netting of bashes has been required, and some precautions in regard to the fruit trees. It is true, also, that the small birds have helped themselves to some of the food of the poultry, and to a certain share of the fruit; but there is the difference that where the birds are banished the precautions are of little or no avail, while they have a good chance with the birds for partners. This year, for instance, some proprietors have done everything they could think of. They have syringed their plum trees with nauseous decoctions to keep off the green fly; they are sprinkling road chanco. They are seen where a zealous and patriotic | dast thickly over their gooseberries, and are dissolv- | derstand and practice for himself."

ing the white grubs into froth over whole banks, or plots of grass; they are employing regiments of children to pick off the caterpillars, paying them by the pint or quart, but they cannot overtake the damage, and are almost ready to give up the contest. If they can find mischief going on in a garden or field where the birds have not been meddled with, they begin to triumph, unless they are aware of the true answer. That answer is given by some lover of rural life-some observer of the ways of birds and insects -who says that a single brood of nestlings in the ivy or the hedge has been seen to devour hundreds of grubs or other insects per day, showing that if Nature were let alone, there would be millions so got rid of in a mile, (as, indeed, we know before by the French report); and if, after the insects had been left to their natural enemies, there were still too many, what might not the infliction become if they were left without check? The check ought this year to have been very strong. The swallows came carly; the sparrows burst out of the hedges in crowds; the blackbirds and finches have been whistling, and piping, and chirping, as if the world were all their own. But this is only where they are allowed to live; and there are too many parishes and districts where they are not.

This is no trifle, and the present season ought to be a lesson for futuro years.—Daily News

Three Garden Crops in One Year.

A CORRESPONDENT of the St. Catharines Constitutional communicates the following for the purpose of showing the great results which may be obtained from a small piece of land, by timely and judicious management :-- " Early in spring, immediately after the frost had thawed out of the ground, I dug up the driest part of my garden, without applying any manure, and on the 20th of March I sowed Early Dileston and Daniel O'Rourke Peas. At that date the snow still lay under the fences, and some of my neighbours laughed to see me planting anything so early. Well, the peas all grew nicely ; were not at ail injured by late frosts and occasional showers of snow, and produced a most abundant crop of delicious green peas, which were ready for the table very soon after other people had commenced planting their first crop. By the middle of June the peas were all cleared off. The ground was then heavily manured and dug up, without delay. Just then I had a lot of good, strong Early Paris Cauliflower plants, which had been previously transplanted or "picked out" from the seed bed. These I planted on the pea ground, in rows 30 inches apart, watering the plants three or four times afterwards. In about three weeks, when they were growing rapidly, I raised the earth around them by making a deep furrow between every two rows of cauliflowers; this greatly stimulated their growth. Finally, in the latter part of July, I planted celery in the furrows between the cauliflowers. The celery plants grew even without watering, being partly shaded by the cauliflower leaves. And now, as I write, many of the cauliflowers are fit for use, and are being daily removed-just in time to leave the celery in full possession of the ground. As fast as the cauliflowers are cut out, the earth is turned back on the celery, which process will be repeated at intervals until the celery is full grown and the blanching completed. If a crop of cabbage is preferred to cauliflowers, the same results can be obtained, with even greater case, by planting an early variety-such as the Little Pixie, Ox Heart or Winningstadt-immediately after the first crop of peas is cleared off. Here, then, are three of the very best crops that can be grown in a garden, successfully raised on the same piece of land in one short Canadian season ; and that. too, without any extra cultivation or manuring, and no greater degree of sciontific skill than every intelligent man can readily un-

Experiments in Protecting Frait Trees the Past Winter.

BY DR. JAMES WEED, MUSCATINE, IOWA

In mild weather, the beginning of December last, we had three enclosures made, covering respectively Peaches, Apricots, and tender Chercies Lach con-sisted of two shutters, twenty feet long, about eight wide, with requisite gable ends, made of a single covering of inch boards, to be covered externally with a thatching of stream with a thatching of straw.

with a thatching of straw. They were completed on the 6th of December, ex-cept the thatching, being well mulched about the base with leaves. The 7th was too cold to thatch. On the 5th the thermometer indicated 11° below zero: on the 9th 12°, and on the 11th a maximum of 16° was reached,—the severest cold of the winter. The decircle the function of the severest cold of the winter.

16° was reached,—the severest cold of the whiter. The Apricot and Cherry trees were planted in the spring of last year. Hale's Early Peach covered were planted spring of '63, and were killed nearly down to the roots by the very extreme cold of Janu-ary 1st, '61, which caused a vigorous growth of young wood last summer, unfavourable to fruitfulness, and but for fault hude were formed

but few fruit buds were formed. In the absence of the straw covering, we had fears In the absence of the straw covering, we had rears for the safety of the buds; but, except in the Apricot house, which was not as close as the others, they were not injured. A part of the Apricot buds were destroyed, but on some of the trees enough were saved, and they are now maturing three to hve dozen of fruit each. We believe this is the method par excel lance for growing the Apricot. The buds on the lance for growing the Apricot. The buds on the lale's Early Peach set their fruits much mere gener-ally than other kinds in the house. We have a favour able opinion of this new variety, at least the tree appears to be better than any other early one we have tried, and we are anxiously waiting to see the fruit at maturity.

The trees in our old houses are producing well No peach blossoms in the open air in this region, and Hale's Early, and other trees in the same rows, and precisely the same condition as those protected, in respect to growth, were killed nearly to the ground

Large Pansies.

A wRITER in one of our horticultural periodicals we do not remember which, gives his experience in growing large pansies, as follows :

· Last year we had a bed of very fine pansies, the seed of which was obtained of the most reliable florists. We gathered the first and earliest seed from this bed, and planted as soon as ripe. They came up and became strong and healtay plants before winter We transplanted them into a nicely prepared bed jus-before winter set in, then covered them with later from the cow-yard; and finally spread over the whole a quantity of evergreen boughs. As soon as winter was fairly over, we took off the evergreens and raked off the litter, and we found them as fresh and green as when first set out. I do not think one of them died. as when first set out. I do not think one of them died. We never had a bed of pansies keep better through the winter. We have between two and three thousand plants, many of them in bloom. They far exceed our expectations, being much superior every way to those of the previous year. We have thought they would not be pretty if they were any larger. One of them measures more than two inches in diameter, many of them the inches and meating all one inche wild three them two inches, and nearly all one inch and three-fourths. Cultivation has done much for this flower.

We have done a little in this way ourselves, with-in the last couple of years, and have had most ex-cellent success. We did not transplant ours, but allowed them to remain where the seed was sown, only covering them in the winter with manure. To obtain large pansies the foregoing mode must he followed.-Germantown Telegraph.

BIRDS PREFER INSECTS TO FRUIT .- A correspondent writes the Country Gentleman from Newark, N.J., that he is well convinced of this fact. He says : "Those he is well convinced of this fact. He says: "Those who are fond of shade or fruit trees should spare the birds. We have cherries for them, and raspberries and strawberries if they want. I noticed that many of the leaves on my apple and plum trees had been eaten by caterpillars, but could not find enough of those insects to account for the damage; a fact which was explained when I discovered the young cowbirds catching them, at about the rate of one a minute – coming for the purpose within ten feet of the door where we were passing in and out, as tame as so many chickens. We have now no clatter from the raduos where we were passing in and out, as tame as so many chickens We have now no clatter from the robins that have their nest in the garden; they have drop ped their song and are busy attending their browd The spotted thrush was as familiar, and as free with his song all the spring, but now is silent. I suppose they, too, are brooding."

When to Pick Apples and Pears.

The Prairie Farmer says : - Most people let apples and pears become too ripe before they gather them. They want to see them fully ripe-ready to fall off the tree before they pick them. This is wrong. If picked a few days before maturity they will keep longer, colour more highly, and command a higher price in market. The precise time to pick is rather difficult to determine. The best criterion is to raise the fruit up and bend the stem over, and it the stem parts from the shoot without breaking, the fruit is ready to pick—whether apples or pears. Pears should be picked proportionally earlier than apples. The quality of fruit is also improved by early gathering. After being picked, it should be put in tight boxes or barrels, and kept a few days in the dark, if of summer or fall varieties. Here they undergo a sweating pro-ress, and when the barrel is opened, the fruit will be found of the brightest crimson and richest golden colours Half of the secret of success in orcharding, is in knowing how and when to pick fruit, and how to get it to market so as to command the highest price and readiest sales. Every one's experience must longer, colour more highly, and command a higher and readiest sales. Every one's experience must govern him, and the more he studies this matter, the more expert he will become. We are anxious all our readers should *think* while they work—that the mind should be exercised as well as the muscle in farm operations; and particularly should this be the case in fruit growing, where skill of the highest order will always be suitably rewarded.

Early Tomatoes without a Hot-bed.

A CORRESPONDENT of the Genesce Farmer gives the following as his wife's method of getting carly tomatoes : The 1st of March she takes a box filled with light soil (which she has obtained in the fall) ows the seed, keeping the box in a room which is always warm from a stove in the adjoining room, and the plants have the morning sun. When the plants are about three inches high she transplants them into boxes made of thin boards wider at the bottom than the top (say six inches square, and five inches square, and seven inches high, without the under boards being fast, as by that means the plants can be moved from the boxes to the place in the garden better) keeping them in those until the spring frosts are over, then the ground being prepared, the holes dug, the boxes are slipped into the holes, tapping the side of the box so as to let the plant fall down, and the box be raised up over the plant, close the soil round the tomato, and the work is done. the soil round the tomato, and the work is done. The plants will not know that they have been moved. They can be kept in the house if needed until fluui is set. My wife will have ripe tomatoes by the first of August—or may be the very last of July. She has the best success of any one in this vicinity. There is a small white worm that troubles the plants when they are getting the second leaves, but if some snuff are tobacco is shaken on will ston their work for the or tobacco is shaken on will stop their work, for the tomato plants raised in the house are the best, for they are stronger than bot-bed plants.

THE EVERGREEN PRIVET .- The Evergreen Privet, when well grown as a shrub, is a most beautiful bush when in bloom, and is highly odoriferous ; the flowers are greatly relished by bees. During a short visit to the residence of Mr. Henry D. Sherrad, near Haddonfield, N. J., last June, I noticed a large and handsome Privet shrub in bloom ; every young twig was crowned with a cluster of rich and waxy white blooms; almost the entire foliage was hid by the

crowned with a cluster of rich and waxy white blooms; almost the entire foliage was hid by the flowers, and their fragrance was perceivable many yards off. From morning till night, swarms of bees were about the bush, both in clear and cloudy wea-ther. Although the lawn was covered with white clover in bloom, and the adjoining fields contained due red, also in bloom, the bees choose the Privet. As the Privet is most generally grown in hedges, on account of its compact growth and beautiful foli-age, many persons may never have seen it when in bloom as a shrub The annual or biennial clippings of hedges prevent their blooming, as the flowers are produced upon the ends of the young shoots of the previous year's growth. The Privet flourishes on a great variety of soils; but it blooms most freely where the soil is not too rich. Very few shrubshave such a pretty foliage as the Privet, and very fow are more deserving of a place in the pleasure ground. [To the above well-merited praise of this beautiful shrub, we may add, that it will grow and do well on dry gravelly banks, where scarcely anything else will do.]—Gardener's Monthly.

32 WHENEVER you see a caterpillar's cocoon in your orchard, get it off the tree and trample upon it.

SALT FOR CELERY .- All gardeners use salt freely for manuring asparagus, yet few within our observation ever use salt for celery. Celery being a marine plant, we have found a free use of salt in diluted form with water, one of the best manures. Salt mingled with compost manure, applied at the bottom of the trenches before planting out, is also good, but once a week wa-tering in the trench with weak salt water, will produce a greater growth and more delicate celery than any other way of growing that we have tried.—Cor. Ohio Farmer

BLACK KNOT .- We have numerous enquirers respecting this, and have had the experience of only one person in treating it. Mr. A. D. Brown, of Mercer Co., N. J., states that he knows the following remedy to be effectual. A tablespoonful of chloride of Lime (Bleaching Powder) is mixed with a quart of water, and after it has stood, occasionally shaking, for a few hours it is ready for use. The knot is pared even with the healthy bark, and the solution applied to the wound. Mr. B. says : "I will guarantee that the Black-knot will not appear in that place again." A simple remedy and easily tried.—Am. Ag.

A HOME-MADE PORTABLE FENCE FOR THE GARDEN .-A correspondent of the Boston Cultivator says, that for several years he abandoned all attempts to cultivate strawberries, because his hens and turkeys run at large, and strawberries were favorite eating for young turkeys; they picked all the ripe ones in a bed much sooner than he could, and the hens, to say nothing of the chickens, did likewise. Some eight years since, he made an attempt to overcome the difficulty, which was so successful that quite e number of his friends adopted the plan, which he describes as follows :

describes as follows: "On a rainy day, I set the men to sharpening one end of several bundles of lathes, and when finished I took two strips of inch board, one and a half inch wide, spread them about two and a half feet apart, and nailed on the lathes, the width of a lath apart, the strips being about twelve feet long; that gave me a moveable fence, which I tied up to stakes driven into the ground. This fence I used to protect my vegetable beds when first planted in spring, and when the strawberries began to form, moved them to the strawberry beds. If the fowls were disposed to trouble the tomatoes after the strawberries were gone. I enclosed them with this portable fence : so that with a very small outlay at first, I furnished my family with strawberries, and sent many to market, family with strawberries, and sent many to marker, having found the raising of this fruit a source of profit.

BLIND STRAWBERRY PLANTS .- A correspondent of the Journal of Horticulture says :-- "Many of your correspondents are constantly complaining of their strawberries 'going blind,' and it has occurred to me that perhaps a little light may be thrown upon the cause of failure in so many instances. About thirty years ago, when I commenced housekeeping, I had a garden about 200 feet long, which I planted according to the best of my judgment. Among other things I made several beds of strawherries. In the month of May, an old gentleman called upon me, who was an amateur gardener, and famous for the cultiva-tion of strawberries. Looking at my young beds, his first words were 'Now you must go over these beds, take every plant up which does not show bloom, and throw them all away.' Of course I reasoned with him that if they did not bloom that year they would next. 'Not at all,'said he. 'Throw them away, you will have plenty of runners from your blooming plants which will give you fruit, the others never will.' Well, I was a young man, and, what does not always occur, I took the advice of the old gentle-man in part, and will now give you the result. All the plants not showing bloom were carefully removed I made several beds of strawberries. In the month man in part, and will now give you the result. All the plants not showing bloom were carefully removed and replanted on each side of the middlo walk, about 200 feet long. They were taken great care of and grew to be splendid plants; but during three years I waited in vain for fruit—they never produced a tea-saucerful, and not one perfect berry. To test the theory still further. I took some of the runners and found them entirely worthless. Of course I have fol-lowed this plan ever since, and have never failed to have a good erop. What I have said refers to straw-berries in the garden; but may not this account for the failure sometimes in pois? I should like some one to test it and report progress. For my own part, I am always careful to take runners for pois from fruit-bearing plants?

British Gleanings.

A GOOD AND BAD HARVEST .- An English paper says that " the difference between a good harvest and a bad one in the United Kingdom is equal in money value to some fifty or sixty millions sterling."

SINGULAR COMBAT.-A British exchange states that " a cat belonging to Mr. George Macadie, Hillhead, Wick, was attacked by a male and female partridge while she was out in scarch of game in a neighbouring field. After several vain attempts to repel her assailants, grimalkin had to give up the contest, and to run for it."

THE POTATO DISEASE .- A correspondent of the Scottish Farmer, writing from the south of Eugland. states that the potato disease is very bad in some districts, and that more than one-half of the crop is already lost. Many districts of Sussex smell offensively of the decayed haulm, which some farmers are cutting and taking off the fields, in hopes thereby to retard the progress of the disease.

CATS IN BRUSSELS. We learn from the London Field that there is quite a rage for cats of the Angora breed in Brussels at the present time. "The demand being largo and the supply limited, the dealers have resorted to strong measures to satisfy the market The other night nearly all the Angora cats in one quarter of the city were stolen, to the astonishment and distress of their owners."

BEEF FOR GREAT BRITAIN .- A British exchange announces the purchase of six thousand barrels of beef in New York, for shipment to Great Britain. It says the dreadful cattle disease, which is now raging American markets for cured meats, if they shall be so American markets for cured meats, if they shall be so lucky as to escape the disease itself. A large advance in butter and cheese may be expected.

OTTER HUNT .- The Carlisle Examiner relates the following curious circumstance: On Friday the Carlisle pack were bunting near Penrith, and they drove out and killed a fine bitch otter. More curious to relate, however, a nest of young ones was found in a crevice close at hand, containing three of the brood he pups, which were scarcely as large as new-born A term of the pairs, which were schedely as farge as hew-born kittens, wore carefully taken care of and brought to Carlisle. They may be seen any day in East Tower Street, where they are being suckled and tended by a cat. Pussy is a most considerate step-mother, and will no doubt rear them in more gentle ways than their unfortunate dem their unfortunate dam.

REPLACING A Cow's HORN .- The following paragraph appears in an editorial column of Shorthorn intelligence, in a recent issue of Bell's Messenger "Did any of our readers ever try the experiment of replacing a horn which had been sloughed or cast? We did so the other day, and with complete success. On Saturday, the 22nd of July, a boy brought a horn to us which he had seen one of our cows lose by entangling it in a stile. A friend volunteered to put it carefully on again; and in the course of about twenty minutes from the time of the accident, the cow was once more in possession of a pair of horns. Twenty-three days have passed, and the horn seems as firm as any in the herd. No bandage or fastening was applied."

FISHING WITH THE ELECTRIC LIGHT .- A British exchange give the following interesting account of an experiment recently made at Belle-Isle, to fish at night by means of electric light :-"The light was produced by a powerful electro-magnetic machine constructed by M. Bazin, the well-known engineer. The experiment, which was conducted by M. Bazin on board the Andalouse, in the presence of 1500 persons assembled on the pier, was completely suc-cessful, and the quantity of fish taken very large. cessful, and the quantity of fish taken very large. A porson who was present states that nothing can be more exciting than fishing at sea by night with the aid of this light. As soon as the submarine lantern was immersed, shoals of fish of every description came to sport in the illuminated circle, while the fishermen outside itspread their nets from their boats. The light illuminating the deep sea, the fish arriving in shoals, attracted by the fletitious sun, the boats at the edge of the lighted circle, the deep silence, inter-rupted only by the grating of the electro-magnetic machine, is described as an imposing sight."

PLANTS AND FLOWERS AMONG THE POOR.-Some of the English papers express pleasure, if not surprise, at the result of efforts which have recently been made to encourage the growth of plants and flowers by the lower classes of London. Exhibitions have been held, sometimes in the schoolrooms of the children. and small premiums awarded for the best display. One collection, brought down from the top of a house. comprised two hollyhocks, two dahlias, geraniums, Ac. From another attic garden came a little box of mignonette in bloom, in the centre, with beans trained to sticks at the ends. A two-year old oak, grown from an acorn in a bottle, was the pride of one woman, while another, with a very humble display, said she had been trying to interest her husband in her window garden, with the hope that it might draw him away from the public house.

ENDRMOUS PRICE FOR EGG-SHELLS -- We learn from a correspondent of the London Field, that four empty egg-shells of the Great Auk were recently sold by public auction, realizing the large sum of one hundred and twenty-two pounds sterling. Such of our readers as are not professed naturalists may probably enquire what were the peculiar circumstances that could give to these egg-shells such an enormous value. The Alca improvise of Linnwus, and all subsequent naturalists, the great auk of the books of our boyhood is a species which no longer exists. The last living specimen known was that secured in 1831, for Dr. Barkett's collection. The great auk was a diving b'rl, closely related to the razor-bills and guillemots. although in size it considerably surpassed these spe-cies, its length being upwards of two feet. The egg specimens recently sold, were discovered with some specific is recently soid, were uscovered with some others in one of the muscums in London, when it was decided supernumerary ones should be parted with. They are about five inches in length by three in breadth, and of that peculiar pyriform or typering shape characteristic of the eggs of so many sea-fowl. In colour they are very pale yellowish-white, blotched with irregular patches of dark and light brown.

COLOUR IN SHORTHORNS .- A correspondent who has devoted considerable attention to this subject during many years breeding experience, writes to Bell's Messenger, as follows :-- "I have known a roan cow breed to a white bull, and then to a red bull, and the calves were rouns of very similar hue and shade, and both calves were pretty equal in amount of colour-I think I could produce several instances of ing. I have observed that when a roan cow and a this white bull have been put together, the calf has very seldom come a mixture between the two, but has been either white or of a roan celour as dark as the mother's, or darker than hers. If the roan cow be put to a red bull, the offspring comes either roan, red, or red and white—not white; but often, if roam, lighter than the dam. Sometimes, however, a red roan, or mixture between sire and dam. Red and roan, or mixture between sire and dam. Hed and roan seem to mix better than white and roan. If the two colours refuse to mingle, the result is a lighter roan, or else red with more or less of white. When two colours are put together which don't mix very readily, it seems as if they didn't know what to do, and so, by way of settling the difficulty, they both which their chains and one of the original colours and so, by way or setting the uncerty, racy bound yield their claims, and one of the original colours (red or white) comes out; or if there has been any distinct peculiar marking among the nearer ances-tors, that perhaps crons out again." tors, that perhaps crops out again

MAKING-UP THE AVESHIRES .- The following amusing account of the manner in which those animals are prepared for exhibition is furnished by the Mark Lanc Express :- " The show dodges of the Ayrshire men are inexhaustible, and not unattended with danger, as one man in his last twenty-four hours of a strong preparation' fairly burst his bull. A great deal depends upon the jockeying during that time. A cow is generally kept sharp set till four or five hours before the show. If she had been on too fine food, her paunc's would be drawn up, and the vessel would lean forward, and the teats not in position ; whereas if the paunch is gradually filled in these last few hours, first by giving her common food, and then by coaxing her into quantity by bettering it at every supply, she is filled to repletion, and the vessel hangs taut and square. She often gets her pound of salt at night, and between the two agencies she should be turned out only the thing in the member.

also as carefully looked to and adjusted as the Spanish cock's comb, which was, while the fashion set that way, kept up in pasteboard splints, till just before going into Bingley Hall. A board is put below the vessel with holes for the teats, and tied with strings round the cow's back, so as to keep it in position, and the vessel is layed with cold water all night, to make it fat and contracted and give it consistency. They are also washed over with butter-milk, and the finer lights put in with soap and gum. ometimes the cow barbers use butter-milk for sometimes the cov barbers use butter-milk for the legs, and take to hair-oil, and the horns are rubbed with charcoal or hawthorn askes, in accordance with an old superstition. In short, the day and night before the show are, in many instances, quite as important as an artist's glazing-day at the Royal Academy. The judges are all well up to 'the little remed' which or normalise remed's provident of the short of the sho Academy. The judges are all well up to 'the little game,' which extends to scraping rams' horns almost to the quick, and then japanning them, and is on all fours with that artistic clipping to hide weak points, against which old Val Bartord, K.C.B. (Knight of the Clipping Board), struggled so long, till the Royal English Society issued its ukase."

THE RIVAL OF JERKED BEEF .- The trade reporter to the Irish Times says :- " A report gains ground that beet can be kept fresh in cask and sent anywhere; if so, from present advanced prices, there is no doubt large imports will take place and supersede the sale of jerked beef at probably 3d. or 4d. per pound." Thereupon a correspondent of the Grocer comments on the announcement as follows :--- "This, I suppose, is in allusion to the operations of the Fresh Meat Preserving Company, whose loathsome-looking "pre-servations" sink and sweat under glass cases in one of the galleries of our Exhibition. I hear banquets of the gateries of our Exhibition. I their danquets are given by the company, who feast their guests upon the roast beef of old England, and then show them, through glass, preserved specimens of what they (the guests) have no opportunity of tasting. "Potatoes and point" is the title of a tale often told, but seldom illustrated; but here we have an instance of how the wise scientific friends of the new mean of how the wise scientific friends of the poor man judge of the good things scaled and set before them by a new limited (too limited in its prospects, I fear) joint stock company. Another interesting fact con-nected with this important discovery is that the closed vessels containing the meat are sometimes too small to hold the gaseous products introduced for the preservation of the contents. The consequence is the usual and very natural one; I am informed that the innocent attendants of some adjacent at the Exhibition were a few weeks since rightened from their propricty by the explosion of a tin canister containing a joint of doubtful-looking mutton that preferred corruption to confinement."

SMALL POX AMONG SHEEP. - In a recent communication to the Morning Post, Professor Gamgee invites the careful attention of flockmasters to the following important points, which cannot be overlooked with impunity wherever the disease appears :- " 1. The flocks must be carefully watched, and the slightest evidence of sickness in any single animal should lead to instant separation, and the examination of those parts uncovered with wool. The early symptoms are slight fever, drooping cars, clapped wool, and a flee-bitten appearance on the inside of the arms and thighs. The red spots increase in size, and about the eighth or tenth day after the earliest symptoms cach red papula becomes elevated and transparent. A clear limpid liquid accumulates, and soon becomes turbid. The pustule has a white and then a yellowish or brownish opaque appearance; the skin around it is pale. Each pustule is flattened, and has been compared by the French to the head of a nail. A certain amount of transudation of lymph occurs, and the pustule dries, so that in a few days a yellowish grey or brown seat is perfectly formed. The scabs then fall off, and leave red depressions in the skin. It is most important to watch and separate the mildest case, as it is the overlooking slight instances deep root and exterminating a flock. 2. Inoculation must be strictly and unconditionally avoided. In must be strictly and unconditionally avoided. In Germany, where sheep are much horned, the opera-tion may, under certain circumstances, be admissible, but here it never is. I appeal to our Wiltshire ex-periences in proof of this. The losses in the inocul-ated flocks amounted to 19.59 per cent, whereas amongst the non-inoculated they only amounted to 16 per cent. 16 per cent. The disease was very virulent, but readily suppressed by separation. 3. Ishould advise the Sussex tarmers to do as, on my recommendation, was done in 1862. They should club together, and pay for the first, viz., the smallest loss, and bury the at hight, and between the two agencies are shound be was some in 1002. Ancy should choose objective, and turned out quite the thing in the morning. Cows are pay for the first, viz., the smallest loss, and bury the also kept well up to 'tid' during the show season sick sheep below ground. I do not wish them with gruel made of linsced-meal, oatmeal, and flour, diluted with their own milk, and sometimes as much may be limited to very few if the plan of early as 3 lbs, of treacle in it. The shape of the vessel is claughtering is resorted to."

Miscellaneous.

Who shall Address our Agricultural Fairs?

A CORRESPONDENT of the Granery Gentelmon discusses this question as follows. It has long been the custom at the annual gatherings of Agricultural and other societies, to have an address delivered touching the object of the society or association. All the different societies for the advancement of knowledge, literature, mechanic arts, science, history, law. medicine, and divinity, select some one to give an address at their annual meeting, pertinent to the object of the society, on some subject of practical importance to its auditors. This is very bachitting, and generally develops something new or useful on whatever subject they may treat. All these organiza whatever subject they hay treat. All these organiza-tions generally select one of their profession to de liver the annual address. This is as it should be, fo one of their own profession is better qualified to interest them, than one of another profession or calling. He knows the history and objects of the society better He knows the history and objects of the society better than one whose thoughts have been trained to other intellectual developments. These annual meetings have been productive of an incalculable amount of good, and have awakened an interest that nothing else would. How is it with the agricultural societies? Are they addressed by one of their members? It is lowner who for the a waiter that a members? It is Are they addressed by one of their memoers. It is a lamentable fact that a majority of the addresses at Agricultural Fairs are given by those belonging to "the learned professions." This should not be so. There ought to be farmers within the bounds of every There ought to be farmers within the bounds of every society capable of giving the annual addresses They may not be in command of elegant language, or able to make rhetorical flourish in beautifully turned periods; but they may do what is of more import ance, give an address embodying sound practical views in all that pertains to progre s in agriculture. It would be tooked apon with surprise to see a farmer addressing a society for promoting the interests of law modeling or dynamic but just an appropriate as law, medicine, or divinity, but just as appropriate as it is for men who have never held a plough, or swing a acythe. or performed the simplest duties of agricul ture, to attempt to instruct men who have grows grey in the pursuit of agriculture, as to the best method of cultivating our farms, what crops are adapted to our soil and climate, what leading staple is most profitable, or what breeds of stock are best adapted to the different branches of agriculture These are important questions, and none but those of large practical experience can answer them to our profit."

BE ALIVE.—This world is not made for a tomb, but a garden. You are to be a seed, not a death. Plan yourself and you will sprout. Bury yourself, and you can only decay. For a dead opportunity there is no resurrection. The only enjoyment, the only as-to be attained in this world must be attained on the wing. For hear wing our benefit. Just it has Each day brings its own benefit, but it has to spare. What escapes to day is escaped for To-morrow has no overflow to atone for the wing. Each da none to spare. ever. lost yesterdays.

markets.

Toronto Markets.

"CANADA FARMER" Office, Sent. 15, 1865.

The weather during the past week has been somewhat change able, but the cold e st wind and rain have again disappeared, and, at the time we write, it is bright and sultry Our street market has been well patronized lately. Every day brings a scene of cheerful activity as teams laden with burley come pourt g to the common centry by every entrance to the city. About 15 000 bush els per day have thus bee a offered for sale in our market, and changed bands at remonerative prices. There is no materi i change in other grams, and the demand, more especially in Wheel, and gether exceeds the sup ly There is a brisk enquiry for flour, and the price of all brands has an upward tendency. Our quotations are as follows:

Flow-market nominal, no stocks and few transactions, inquiry good; No 1 superit e at \$5 00 to \$5 50; extra do, at \$5 75 to \$6 60; superior extra at \$6 60 to \$6 75, and higher. FAU What In fair demand und steady, at \$1 20 to \$1 00 or the street; smully, \$1 00 to \$1 10. Spring Wheat—quiet; selling on street, at \$1 00 to \$1 05, nd higher

big gher. Bariey active, at 680 to 740 per bushel, 75,000 hushels in during

Barly active, at ose to see per ousair, so, or nusces in suring past formight Stars straight, at 61c to 63c. Outs in generationand, at 32c. to 35c. Cors unchanged Pauvisions—improving, Butter good supply at 20c. to 22c. per 1b Brevils webcaule, dury, is uus, 16c to 10c per 1b Checks—more plantiful; wholesale 10% cto 11% o per 1b; retail 14c to 15) per 1b.

Eggs-market steady, with fair supply; fresh 13c per dozen the street

Intators (new)-Plentiful, and of excellent quality, with fur

Duations (new)-Plentiful, and of excellent quality, with fair demand, whole-ale, 25c; retail, 30c. Ref.-i. demand, but slightly higher; prime cuts Sc to 12c per lb, sew and compares 60:1.9c per ib. Matton-Fair supply and in its demand; at 8c to 12c p r ib, hand quarters 12c per ib, fore quarto s 8c per lb. Live Stock-dressed weight, 1st class \$5 to \$5 60; 2nd class \$t to \$t so, inform, \$5 to \$5 so, career, small supply, \$4 to \$7 each; fair quark (t) is the market, sheep, \$3 60 to \$4 00 each per car bat, tamos, \$2 to \$5 Ridge-up good supple at from \$3 to \$11 per ton for new, old scare and higher.

Hamilton Markets, Sept. 15th, 1865.—Wheat, White **Hamilton Markets**, Sept. 15th, 1865.—Wheat, White White, ξ 10 to ξ 1 to K, dwhater, ξ 105 to ξ 1 K. Spring Wheat, 95c to ξ 103, Barley, 70c to 72c, Press, 55c to 64c, Oais, 30c to 35a Potatose, picniful at 60c. Presh Budler, Scarco, and Selling at from 23c to 25c per 1b Fogg, 13c to 15c per duzen. Tomatose, 60c per bushet Park, very little off-ring. Prices advanced Moss, ξ 23 to ξ 25 Hami, 13c to 15c per tw. Hay, per ton, ξ 10 s 210. Tallow, Bugli, ξ to ξ 50 per ewit. Hade, Green, trimmed, ξ 3. Cafiking, Te to Se per tv. Sheepsking and Lambusne, 75c to ξ 2

Lagueins, ic to se per 10 Sherjskins and Lambdins, 75c to \$2 84. Catharines Markets, Sept 15th, 1935. —Fall Wheat, per bushel, 90c to \$1 Spring Wheat, 55c to 80c. Cornmeal, \$1 50 to \$1:0 Oatmat, per cwi, \$0 to \$0.25 Flour, per 100 lbs, \$2.25 to \$2.50 Uais, per bushel, 30c to 35c. Barrey, per bushel, 63c to 7 s. Rye, per bushel, 75c to 80c. Pear, per bushel, 63c to 7 s. Rye, per bushel, 75c to 80c. Barrey, per bushel, 63c to 65 s. Apples, per bushel, 75c to 16c. Hams, per 10s, 10c to 35c. Orders, per bushel, 55c to 55c. Batter, per 10s, 20c to 25c. Cheese, per bushel, 55c to 15c. Batter, per 10s, 20c to 25c. Cheese, per ib, 9c to 10c. Eggs, per dozen, 12% to 14c. Lard, per 1b, 15c to 15c.

Permbroke Markets, Sept 12th, 1865 -- Flour, per bbl., \$5 to \$5 60 Wheat, per bush 1, 90c to \$1 10 Mess Pork, per bbl. \$21 to \$22 P M Pork, per bbl., \$18 to \$19 Hed, per bbl., \$9 50 to \$10 Outs per bushet 35 to 40c Peas, per bushet 75 to 90c Whue Deans, per bushet, \$1 60 to \$2 Polatoes, per bushet, 30c to 35c. Butter, per 1b, 12% to 13c. Hay, per ton, \$6 to \$3.

Lindsny Markets, Sept. 12th, 1865 - Fall Wheat, per b soci, \$1 05 to \$1 10. And Figur, \$5 50. Spring Figur, \$6. Barley, 50c to 55. Oats, 25a. Hay, per ton, \$8 to \$9. Butter, per ltb, 18a. Eggs, per dozen, 10a. Wool, 373/a to \$9.

per na, no. Logo, per dozen, no. 1001, 315 c to $-\infty$ **Belleville Markets**, Sopt 15th, 15'5 - Fall Wheat, per bushet red \$105 to \$1 20, do white, \$1135 to \$130 Spring Wheat, per bushet, 90c to \$1 Barley, per bushet, 50c to 55c. Flour, per bushet, bushet, 45c to 60c. Dats, per bushet, 50c to 55c. Flour, per bushet, which sale, \$4 20 to \$4 40 Corn, 50c to 55c. Flour, per bushet, f4 75 Patators, per bushet, 37 is \$2. Flotast, per 100 lbs, \$4 75 Patators, per bushet, 37 is \$2. Flotast, per 100 lbs, \$4 75 Patators, per bushet, 37 is \$2. Flotast, per 100 lbs, \$4 75 Patators, per bushet, 37 is \$6 to \$5. Floer per 100 lbs, \$4 50 Matton, per lb, \$6 to be leas, pr 10, 4c to be, butter, \$4 5 Sheepstang 25c to 6. Hool, 35c. Calfsking, 7c to 8c.

Kineardine Markets, Sopt 15th, 1863.—Fall Wheat, \$1 to \$1 10 Spring Wheat 90 to U.C. Gats, 20 to 5.... Leas, 50. Barley 50 to 55c Potators 30c. Butter per lb, 18c. Flour, \$5 Hay per ton, \$6 Eggt, 8c. Wood, \$1 to \$1 50. Green Hidta, \$2 50. Wool, 40c.

Hides, \$2.50. Wool, 40c. Montrent Markets, Sept. 12 – Flour, Superior Extra, \$7.5 to \$7.35. Even, \$5.00 to \$6.85, Fancy, \$6.25 to \$6.30, welland Canal Superime, \$5.3, to \$5.40, Superime Wheat, \$5.50 to \$5.45. Boy Flour, \$3. to \$5.10. Canada Wheat, \$1.14 to \$1, 15. Watern Wheat, \$1.15. Canada Wheat, \$1.14 to \$1, 15. Watern Wheat, \$1.15. Canada Wheat, \$1.14 to \$1, 15. Watern Wheat, \$1.14 to \$1.15. Canada Wheat, \$1.25. Solie Yackel Hutter, 18c to 12c. Dary Butter, 10c to \$25. \$5.25 to \$5.30. Flour, market queet, extrass still in far request, but buyer and wellers are apart in their views and hinder trans attoms. Fraze, inquired f, to arrive, at \$55 to 000 par 66 lb. Rutter still to far request for \$10 forms, recept this moring all for on-sumers, private advices by the Hiternan report more reluctance of the part of buyers to o-mo forward at present prices. Now Wark Markets, Sent 12 - Flour, - flore, -flore, - flore, 11.429.Now Wark Markets, Sent <math>12 - Flour, - flore, - flo

The Domine of the part of buyers to come forward at present prices. New York Markets, Sept 12, -Four, -Recents, 11429 torts, market dat. and drowing, adex 7 200 barrels at \$7 to \$7 th for superime rate, \$7 50 to \$7 *56 or extra stat. \$7 90 to \$8 to for common to medum extra Westera, and \$8 50 to \$9 10 for common to good simpling brands extra round holp thin randian Four dult, sal \$300 barrels at \$7 00 to \$8 25 for com-state \$10 for common to medum extra Westera, and \$8 25 for com-randian Four dult, sal \$300 barrels at \$7 90 to \$8 to for common to good simpling brands extra round holp thin randian Four dult, sal \$300 barrels at \$7 90 to \$8 25 for com-round, and \$8 30 to \$11 for good to choice extra Wheat-likecepts 15,483 boah, market opened h avy and drooping, and chosed ic hower for pring, and 2c to 3c for winter; saltes \$2000 basheds, at \$1 60 to \$1 64 for Chicago epring, and Mile...dikee \$1 65 to \$1 66 for amber Milvaukee, \$2 for winter rod, and \$2 5 to \$2 8 for a w anther State. Rige, quiet. Corm-Receipts \$0,531 busieds, market 2c lower for unsound, and 1c to 2c lower for wound, sales 80,000 bushels at 76c to \$76 for unsound, and 856 to \$256 for \$100 humines at 76c to \$76 for unsound, and 856 to \$256 for \$100 1010 at 76c to \$76 for unsound, and 856 to \$256 for \$100 1010 at 76c to \$76 for unsound, and 856 to \$256 for \$100 1010 at 76c to \$76 for unsound, and 856 to \$256 for \$100 1010 at 76c to \$100 at \$100 at \$100 at \$25 for \$100 at \$30 to \$31 for 1863 and 1864 do, and \$42 to \$24 \$26 for \$26 for prime. 1010 at \$26 for \$275 for new mess, closing at \$32 47%, cash \$30 to \$31 for 1865 and 1864 do, and \$42 to \$26 for prime.

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THE subscriber has just received from Holland his annual im-portation of Bu ba for autumn planting, consisting of Hya emits, Julips, Grocus', Lilies, &c., &c. They are all first-class Builts, and have arrived in excelent condition. Ho would call especial attention to the f ct that the selection he offers this time is unusually large and varied. A special descriptive Catalogue may by had grains on application.

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nications for the paper must be addressed. **43** Subscription Price \$1 per annum, (Postage Fast,) payable in advance Bound volumes for 1864 may be'had for **51.30**. Subscribers may either begin with No. 1, receiving the back Nos. for 1864, or with the first No. for 1865. No subscriptions re-ceived for loss than a year, and all commence with the first number for the respective years. CLUES will be turnished at the following rates :-Thy Course for. Number 1000 may be addressed at the following rates :-

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To Agricultural Societies ordering more than 125 copies, the FARRET will be sent at SIXTY CANTA THE CANDA FARRER presents a first-class medium for Agriculta-ral advertisements. Terms of advertising, 20 conts per libe of space occu, "..., each insertion-one inch spice, being equal to 12 lines. No advertisement charged less than \$2, being ten lines of space. space.

Communications on Agricultural subjects are invited, addressed to "The Edutor of the Canada Jurmer." and all orders for the Description of the Canada General Science Science Science (Description and Pahlishar.

J. A. SIMMERS, Toronto, September 13. v2-14-2t.

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