IL V Rose,

patrons, and is growing in favor with every issue and is exceeding our most sanguno expectations. If the members of the order give it a right loyal and hearty support it will soon become a power for good in the land—what every good and true l'atron should desire it to be. Patrons, remember your obligation with regard to prometing the good of the order. I desire to notice in this connection the very timely and appropriate article from the pen of the worthy Secretary of the Dominion trange as to eligibility. This is a very imp react matter, and should receive the attention its importance domands, as the future of the order largely anco domands, as the future of the miles brively depends upon sound discretion in this important matter. I would have enlarged upon this subject, but I feel I am monopolizing too much of your lan auro it would all your readers, to hear from our lady friends of the order through the columns of this paper, either in the way of a Grange essay, or in an article upon any subject within the range of their large and varied sources of information; it would have a softening and retning as well as an electric influence to your correspondence and clevating influence to your correspondence, and trould add a charm and dignity to the paper, such as their high moral aims and fertility of resource could only supply

JOHN T. GOULD.

The Order in Teeswater.

EDITOR GRANGER, --

I have been taking your paper since its com-mencement and am nighty pleased. As you invite the various Secretaries to send you information about the progress of the Order in the different localities, I will send you a few jettings

On my first acquaintance with the Grange I did on any first acquaintance with the Grange I did not know the meaning, or, in fact, its objects; after careful inquiry, I found out it was a grand organization of farmers. I immediately set to work to canvass the neighborhood in which I live, and took three days without any tangable results. Since that time I have succeeded in organizing a a firance six miles from us, and at present it is an a Grange six inflict from us, and at present it is in a flourishing condition. Subsequently, our neigh-borhood has been awakened up to the necessity of the moment and we are a strong body now, and every successive meeting adds new members to our list. The movement is doing a great amount of good in letting farmers see what co operation will do for them. We do a good deal of our business in Toronto, being in direct communication with there by the W. G. & B. R. Our local with there by the W, th. GD E. Our local merchants do not like this too well, but we claim we have a right to buy and sell where we can do so to our greatest advantage, and take no notice of them. Fraternally yours, Treawater.

Spare the Birds.

EDITOR GRANGER,-

Not a sparrow falleth to the ground but "He knoweth." Surely such words appeal to all, and should stay the ruthless destruction of our feath cred friends, friends that are created by an allwiso Providence to fulfil a special object in the sub lime work of creation

Should man arrogate to himself, and cry in his blindness, "I want them no, they work me harm!" Poor blind mole, where is now thy boasted

Cannot he see if these birds were not required they would have been left uncreated,

God created all things for a wise purpose, and with an object. Who is it that heralds the selvent of spring?—The birds. Glad season for all. After the long cold winter of this northern land, how the loud notes of the robin cheer one. Bright promise of summers to come, and aithough the snow may lay thickly on the land and bitter March winds howl, still the robin, light hearted and gay, sings his son, and hope from limb to limb.

Then, as the season advances, and the weather moderates, hosts of bright plumaged songsters

You can see them busy at work amongst the trees and shrubs, picking the larva of destructive in-sects, and doing that great work which has been ordained for them, and which they alone can perform.

Let us then protect our birds, and look upou them as our humble assistants, sent by God. BUCK JAY.

Commendatory.

DEAR SIR,-The Grange is working well in our neighborhood I believe your paper will be of use to the Order at large and our own Grange in particular. There were some good articles in the number which we received. I hope you will be supported by the Grangers, as I think it is worthy of their attention.

Yours truly, T. H. Sterness, Master Woodbine Grange, No. 362.

L. D. F., G. and I. B. P. S.

Fish and game in season in April and May . Figur.—Trout, speckled; salmon; bass—till the 15th May; pickerel and muskinongo—close season from 15th April to 15th May.

GAME.—Snipe—till the let May

It is particularly requested that any one knowing of any infrugment of the game laws that they will report the same to the officers of the Protoctive Society in London.

Answers to Correspondents.

Entrop Granden - Can Subordinate Grances make orparate constitutions or after any portion that issued by the Hominion Grange. Pl AUTHEL.

A. D. ONDORNE, Grove Grange 333. [All Granges must work under the same consti-tution. No anthority but that of the Dominion Grange can alter it. They may have separate bylaws -Eu.]

The above was unavoidably crowded out of our

TEINWATER.—Conferring more than one dergee at a time is unconstitutional, and not in any case recommendable one degree is as much as any on first-class real estat one time, and indeed he does well if he becomes in any way proficient them. A member may be ballit a generous support.

loted for and initiated the same night; but application for membership must lie over one meeting.
Special meetings recommendable Boundaries of
of Division Granges are fixed See Constitution
Dominion Grange, Fourth I dition.

Buo T R, No 391 If very issue of our paper is full of matter given, the limbs you ask, for the management and conducting the triango according to the principles laid down in our constitution. The nationach micel pair of carrying on Grange meetings properly, depends on a thorough acquaint-ance with the british and the secret work, which ance with the littual and the weeket work, which would be anadersable in a paper i we have always contended, however, that sufficient time is not taken by parties organizing trianges to thoroughly post monitors in the littual. It is impossible for any tirange to comprehend the working of the Order in the limited instructions given in one night; we have no doubt the want of harmonious problems of timesand during the timesand of the content of the conten night; we have no doubt the want of harmonious working of trangers adue to this fact. trangers in is a gradual process of developing a higher manhood and womanhood among the agricultural classes. Its teachings requires to be carefully studied and digested, and not hurried over in a slip-shod manner. We hope none of our brothren have so far forgotten the solenin and impressive obligation subscribed to by them, to be submissive to the powers that be, and conform to and abide by the rules and regulations of their respecabido by the rules and regulations of their respectivo Granges.

Veterinary.

Our Veterinary Department is under the charge of competent practitioners, who will answer all questions pertaining to diseases of looree and lattle. If you want any information write to the Granger

Tympanitis, or Hoven.

Tympanitis, or Hoven, is a very common complaint among cattle, and requires speedy relief, or a rupture of the stomach, or some of the intestines, may be expected to take place, which generally soon terminates the animal's existence. It is atsoon terminates the animal's existence. It is attended with symptoms of the most distressing nature, and is the unnatural distension of the rumen of paunch with gaseous fluids, generally caused by the sudden change of food. Feeding on frozen grasses or roots, or an engorgement of the stomach with any kind of food when not properly masticated, fermentation takes ilace, and carbonic said gas is climinated. In the latter stages of the discaso, hydrogen and its compounds takes its place; or it may be caused by choking. In some cases it is the sign of other diseases, and is apt to appear as a chronic affection, owing to the torpid state of the walls of the rumen, which are unable to contract properly on their contents, probably owing to their being overstretched. their being overstretched.

Symptoms:— A swelling appears in the left flank, and signs of distress soon appear. The breathing becomes laborious. As the disease advances the swelling increases; the breathing becames more labored, owing to the distended stomach pressing against the lungs. The animal makes a pitiful sound, resembling a mean or grunt; and, with an arched and stiffened back, is not coincided and stiffened back, is not to inclined move If no relief is given, the brain soon becomes affected, the eye becomes bloodshot and prominent; salva drops from the mouth; suffoca-tion is evident, blindness and insensibility come the creature staggers and falls to rise no

THEATMENT.-The great secret of success is the The great secret of success is the arresting of the process of fermentation, and promoting the proper function of the rumen. By means of the latter the gas is dispelled in eruction, or through the intestines. The preparations of ammonia, chlorinated lime, the sulpites of soda, &c., act by neutralizing the acid fermentation of the stomach. If those do not prove effectual in removing the gas, then you will have to try mechanical means for its removal. This is done by the use of either the probang or the trees and chanical means for its removal. This is done by
the use of either the probang or the trocar and
canula. The probang is a hollow, flexible tube,
which is passed by the mouth into the stomach,
allowing the gas to pass through the tube. The
awelling is lessened and the animal obtains relief.
Sometimes the regurgitations of the food towards
the gullet obstructs the passage of gas through the
probang, then it will be necessary to use the trocar
and canula. The place chosen for the operation is
midway between the projection of the hip, the
last rib and the process of the lumbar vertebra.
The instrument is then inserted through the issue
into the stomach, being careful not to wound the into the stomach, being careful not to wound the kidney, which is often done by parties operating that are not conversant with the austomy of the part. The trocar is withdrawn, leaving the canula for the gas to escape through. Medicines may also be introduced through the tube into the stomach, for the purpose of hastening the removal of the contents of the rumen. It is a good practice to administer a brisk cathartic as soon as the acute symptoms are arrested, such as Epsem salts, followed up by atimulant, such as brandy, whis-key, beer, ether, &c, which will be of much ser-vice in restoring the functions of the organ.

WILSON & TENNENT,

Vetennary Surgeons, April, 1876.

We beg to call the attention of our readers to the advertisement of the Agricultural Investment Society and Savings Bank, of this city, in to day's issue. We have satisfactory evidence of the stability of the Society, and know that it is rapidly growing in public confidence and favor. To borrowers we would say that that the Society will advance you all the morey you can reasonably expect on your property at as low a rate of interest as any Society in Ontario, and we will vouch for your being fairly and honorably dealt with. To persons desiring a safe and remunerative investment, we can honestly recommend this Society's stock, now selling in the market at 7 to 71 per cent. premium. Semi-annual dividends have so far been paid at 8 per cent per annun, with every prespect of being increased. Depositors are getting from 5 to 6 per cent, per annum interest in the Saving Bank Branch, with the satisfaction of knowing that the security is undoubted, the funds of the institution being all invested in mortgages on first-class real estate. This Leing peculiarly a farmers' institution, we trust they will give

The Farm.

Large Yields of Potatocs.

The following number of pounds from one mund or seed have been raised:

edreka.	
Growr,	Pounds
J. L. Perkins, Little Sioux, Ia.,	1.6662
P. C. Wood, Eather, Itl.,	1303
A. Rose, Penn Yan, N. Y	1 140
Al. Al. Kozo "	1 3.45
J. I. Saiter, St. Cloud, Minn,	1.097
H. V. Rose, Penn Ye i, N. Y	. 1,0661
BNOWFLAKE.	
P. C. Wood, Eather, Ill	1.417
J. L. Perkins, Little Sioux, Ia	. 1.304
F. H. Seller, Verona, N. J	1.125
J. I. Salter, St. Cloud, Minn.	1,0001
A. Rose, Penn Yan, N. Y	1,089
IL V Rose, "	

Had the crops of one yielded uniform results from the seed equal to the best, Mr. Perkins thinks he would have had over 0,050 pounds to show for the one pound he had buried. All the large yields were grown from very small sets. In some cases single eyes were divided into ten pieces, and in one instance 240 sets were made from one pound, nearly all of which grow well. from one pound, nearly all of which grow well. The sets, with few exceptions, were planted singly, yet we find a product of 970 pounds raised from 62 hills, two sets to each, nearly 19 pounds per hill, and 677 bushels per acre—Whether this large yield is due only to the very favorable soil they grow in—a rich, black loam, formerly used as a bog yard—and the immense quantity of ashes applied in the hills and as top-diessing, one peck to the hill, or to the two set system, does not appear. It is to be regretted that one part of the plot was not planted with one set to the hill, and the products weighed separately. The planting, in nearly all cases, was done between the 10th and 20th of May, and one fourth of all competitors dropped May, and one fourth of all competitors dropped the seed on the 10th of May, nearly a week earlier than former years. A comparison of the distances between the hills with the average yield per acre, gives a most interesting and valuable table, as follows: The sets planted at a distance of

2x3 feet gave a yield of 378 bushels per acre. 2x4 feet gave a yield of 462 bushels per acro. 3x3 feet gave a yield of 651 bushels per acre. 3x3\(\frac{1}{2}\) feet gave a yield of 441 bushels per acre.
3x4 feet gave a yield of 372 bushels per acre.
3\(\frac{1}{2}\) x4 feet gave a yield of 342 bushels per acre.
4x4 feet gave a yield of 332 bushels per acre. 4x8 feet gave a yield of 88 bushels per acre.

It will be seen that, although the greatest ield from one pound grow from hills four feet part, the largest crops per acre were raised at distances of three feet each way, and that as the distances between the hills are increased or decreased the yield diminishes in regular pro-pertion. In the first case there remains wasted in the ground which is not reached by the roots of the plants, and in the latter the roots are so crowded that they cannot obtain all the nourishment they are capable of consuming.

Brown Legherns.

Leghorns stand second in importance and popularity to no breed of fowls, unless it is the Asiatics. They are far-famed as egg producers, and this is not exaggerated. They lay most remarkably—much better than any other known breed of fowls. Their average production is quite two hundred and fifty eggs per annum; they lay as large an egr as the average Asiatic; it has a pure white shell. They are splendid winter layers. The bens are non-setters, and hence some other hens must be kept to hatch their eggs. They mature very rapidly; cockerels begin to crow at six weeks old, and pullets lay at four months. They are remarkably hardy, and sure to live, with ordinary care. They will live and thrive where other fewls would perish, and bear confinement well.

Although only recently brought prominently before the public, they have attained a popularity excelled by no other variety. Well deserving are they of all that can be said in their favor; in beauty of plumage and form they are excelled by page in the constitution of the control of the contr equalled by none; in economical merits they have no superior. They are not so widely known or so common as the white variety, and are much more difficult to breed true to feather. In breeding no variety is the adage "blood will tell" better illustrated.

The Application of Lime to Soils.

Soils rich in organic matter, even though they already contain it in considerable quantities, drained peat awamps, stiff clays, and coarse, heavy soils, and especially those destitute of it, are all benefited by an application of lime. Good results also follow its use on light soils after an incorporation of organic matter, as green manure, muck, or a thick sod or green crop plowed under. Sterile soils are rapidly crop plowed under. Sterile soits are rapidly rendered more sterile by its application. Wet lands show least effect from treatment with lime. Hence such lands must either be drained or receive an extra amount. Clays should also have organic matter applied in connection with lima. It acts most effectually near the surface. The apparent effect is greater the second season than the first, so the most satisfactory results are obtained by sowing breadcast in the early fall, with at most only a light harrowing or brushing. It should be applied in an air staked, fine mee anical condition. The most profitable quantity to apply depends much on the land; wet soils, those well filled with organic matter, and clays, taking most—from ten to forty bushels being recommended, according to the circumstances.

Trial of Onlong.

A trial of 98 varieties of onlone was made the past sesson at Chiawick, near London, the the past season at Chiewick, near London, the seeds of which were contributed by several of the large seedsmen of London, Pans, Erfurt, Poston, etc. Among the best, as reported in the Garden, whose account we condense, are the following.—White Spanish (known also by the name of Banbury, and ten other synonyms), is the one most generally cultivated, is of free growth, and ripons well, large faur sized ones being four neches and supporter and for 2 tenhos. being four inches in dismeter and 2 or 3 inches thick—light greenish yellow, keeps well. White Globe is similar, but is smaller and more globu-iar. Trebons (French) is larger than the Spanhar. Trebons (French) is larger than the Spanish, not very solid, excellent in quality, a poor keeper but a valuable autumn sort. Yellow Danvers, very fine, distinct, pale green, and dark straw color, a fine grower, size medium, very regular, firm and solid, fine in quality, and a splendid keeper. Brown Globe, like White Globe but darker are available beares and Globe, but darker, an excellent keeper, and much esteemed. Pear-shaped, an clongated globe, not highly recommended. Deptford, of free growth and very hardy, early, brown, flesh tinged red; an excellent keeper. It is known also as Strasburg Brown Scopies. also as Straaburg. Brown Spanish and by several other names. The strongest flavored onion is the Blood Red, which is rather small, dull red; deep red inside; flesh white—very solid, the latest keeper. Wethersfield Red, growth rebust, large, very regular, dull red, growth robust, large, very regular, dull red outside, flesh white, firm, solid, mild, excellent, keeps well, "a remarkably fine and handsome onion from America—the finest type of red onion." Silverskin, medium, apt to split open, flesh white, exceedingly firm and solid; keeps well. Queen, very small, extremel_early, white.—Country Gentleman.

Hints About Work for April.

HARROW THE FALL WHEAT AND RYE. - This should be done as early as possible after the surface is dry. The stirring of the ground will start the weeds into growth, and a second harrowing in ten days afterwards will kill them by rowing in ten days afterwards will kill them by thousands. At this second harrowing the clover seed may be sown. We have found the best harrow for this purpose to be Thomas', the backward sloping teeth of which passes over the young wheat plants without injury, and help to cover with fresh soil those which have been heaved to the surface by the late frests.

Sowing CLOVER SEED .- Something ought to have been learned by the frequent failures to get a catch of clover of late years. The seed takes best upon good soil, that has been harrowed and freshened up previously, and fails most frequently when sown upon poor soil, and on the bare, hard surface that has been packed by the win-ter's storms. This old careless way of scoding ought then to be abandoned, along with the hope of getting a stand upon soil too poor to grow anything else. We have never failed of a "catch," by sowing when the earth was full of little cracks made by a slight freeziug; the thawing earth covers the seed. Clover is a good thing with which to seed and restore a soil with, but land can easily get past recovery in this way.

SPRING GRAINS.-All the spring grains are best to be sown early, but what "early" is, depends greatly upon the character and condition of the soil. There are early soils, light, warm, and naturally well drained; on these barley and oats may be sown several days sooner than on cold, heavy clays. As a rule our earlier sown crops have been the best, even upon our heaviest fields, and to have the work well forward is a temptation to hurry the seed into the ground as soon as the soil is in proper condition for it, but not sooner. for it, but not sooner.

BARLEY OF OATS can be sown upon a fallplowed oat stubble as soon as the surface is dry, and thus, by plowing the ground in the fall, a gain of valuable time is made in the spring. Those farmers who are now forced to wait for the ground to dry before it can be plowed, may learn a hint for the next sease n. Make a note

PEAS.—For this crop, in the northern states, Canada-grown feed should be procured, as this is free from the pea-weevil, which bores into much of the seed and injures it. Very few of the seed are destroyed by the weevil, but in awing infested and we saw the enemy along sowing infested sood we sow the enemy along with it, and perpetuate its existence. Stirring pouring off the water and drying, a great many of the pupe of the weevils may be destroyed. It is therefore wisest and best to procure seed free from weevil. Peas should be sown with a

FODDER CROSS.—For fodder crope, the following may be sown: 21 bushels of oats, with 11 bushels of peas, mixed together, or 2 bushels of barley, and 11 bushels of tares, together. Spring wheat and 170 are not worth sawing when outs or barley can be obtained, as they are deficient in leaf, and make a light yield. These crops may be sown in succession every 10 days, for soiling or for dry fodder, any time through this month. POTATOES have paid best with the writer on fall-plowed and winter-manured land, and next on a top-dressed clover or grass sod. The seed and labor for a crop of 300 bushels cost no more except some little extra in harvesting (but the latter not at all in projection to the excess of crop), than a crop of 73 bushels. At this time of low prices it is incumbent upon us that we consider this fact well, and act accordingly. None but perfectly sound seed should be plant-

Cannors.—This is a crop that deserves more attention than it receives, for its value as a healthful food for all kinds of stock. A prejudice exists against it, on account of its slow ger-mination, which enables weeds to get the stars of it, the length of the roots and the need for clean culture. By sowing some radial seed in the drill with it, and having the soil deeply plowed and mellowed, and rich, and procuring