OFFICE ON QUEEN STREET,

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Agriculture.

For the "Agriculturist."

VICTORIA COUNTY NOTES.

crops. The grain crop will be good to make them utterly unprofitable. one. The wheat crop pro-

pushed forward, the buildings when as well have raised. He will keep in mind when he makes the calculation that it costs precisely the same freight possible the there item of rope for halters amounts to \$3,000 for one firm.—American Exporter. County.

July 8th, 1878.

few miles from this city. We learn would yield quite as good return, if prices of every good beast they can

Duc, Commissioner of Agriculture, good Canadian herds. It is not ne The bones of the bull under inspection Washington, we have received the Departmental Reports from I870 upon Forestry, by Dr. Franklin B. thorough-bred animals, and hold on Hough, issued by the Department, for to them and their progeny for a few which we tender our thanks. These Reports are valuable, and contain a thing relating to Agriculture. our readers such portions as may be the compass of our columns.

CATTLE TRADE WITH

ENGLAND. We have given our readers a good to this Province. We met two Onanima, they now do, just so long they there is only one other similarly en- high official station. When farmers productive as timothy, with the ad- most exclusively on skim milk, meal, and that it wo. t pay to feed stock. a small scale. The former ship both If they had large, well bred animals from New York and Philadelphia. now they could obtain a vaying price Encouragement for continued and performing all the duties of their pre maturing for cutting too early for states that ailing pigs are often quickfor any number. The following arti-Globe in referring to a sale of Short sisted in the past, and the indications Horrs at Bow Park-the same herd are that the more they receive the that the importation in 1875 was more they want; that prejudices fact will not long be overlooked. That from. The other is from the American against Yankee beef are being over high offices are so poorly filled is grass is its earliness, as well as lateness.

from \$5.50 per 100 lbs. live weight important bearing.

JOURNAL DEVOTED TO AGRICULTURE, LITERATURE, AND NEWS.

ANDREW LIPSETT, Publisher.

"AGRICULTURE THE TRUE BASIS OF A NATION'S WEALTH."

FREDERICTON, N. B., JULY 13, 1878.

TERMS: \$1 50 per year, in Advance.

the grade stock included in these June | mixed with their water. They also sales averaged one half heavier at any require liberal feeding with meal, given age than the common stock at corn and salt. Of the entire number the same age; that the price per lb. shipped since February 1st, estimated obtained for the grades averaged one- at near 9,000, as already stated, the half more per lb. than that for the losses amount probably to 240. One common stock; and that the grades vessel, the "Greece," was compelled The heat of the last few weeks has took very little more feed (if any at to throw overboard 156 head of live all) to bring them to their profitable cattle. A disaster was experienced condition than the common ones did when the "Idaho" went ashore, and

mises fairly, much broader fields have all quarters of the Dominion-and a will readily be seen that mishaps such Atlantic. The latest market reports tions for net profits. The County Council of Victoria London market ranged from 91d. (19 ments, that in the business of export were only in session two days. The cents) per lb. down to 71d. (15 cents); ing live cattle, though pecuniary business before the ession was the and Mutton from 10d. (21 cents) per gains must sometimes be quite liberal ordering of debentures of \$2,400.00 lb. down to 8d. (16 cents) per lb. In money is not received by the barrel. Liverpool, Beef ranged from 9½d. to This fact the shippers are quite willin addition to \$2,500.00 previously 8d. per lb; and Mutton from 101d to ing should be borne in mind, perhaps ordered. The ordering of the build 9d. At Glasgow, these same prices lest rash adventurers rush in "where ing of a new Registaar and Clerk's are reported. Any farmer can calcu- angels fear to tread," and suffer for Office at once. Tenders for the same late for himself the loss sustained by their temerity. Expenses are neceswill be opened on the 15th inst, to be of 1,000 lbs. weight at 15 cents per lb. first cost, transportation charges, fod finished by 1st of October. The Court instead of one of 1,500 lbs. weight at der and attendance. In their two House and Gaol are being rapidly 19 cents per lb., which he might just years' experience the mere item of

to send a 1,000 lb. steer from Toronto to Liverpool as it does to send a 1,500 lb. one the same journey. Only fancy. too, the loss by sending a sheep heads of Timothy-measuring from cents per lb. when he might just as well have sent a 120 lb. sheep worth

The market for good beef and mutton all, the wide and deep chest, which is inexhaustible: the market for comon stuff is always heavy and precareclaimed and drained by Mr. Smith. stock, and our farmers have a splendid There are many farmers in this coun- field opening out to them in Europe try which have just such fields that for the ready absorption at great

From the Honorable Wm. G. Le to form the nucleus of thoroughly should be thorough-bred; but the stock will increase in numbers and value if the farmer but starts well and has reasonable patience and perseverance. - Toronto Globe

the shape of lard and bacon, is acthis trade, which is peculiarly suited Line London, June 26, took out a cargo the muzzle? Is the entire body smooth tario farmers last week who were York for a foreign port. Previous to tant particulars, he is unquestionably wiew of purchasing land for raising the same destination, which sailed a fine-boned animal.—National Live and the clover, with occasional topon board, the largest sent out up to this Province is better that date, and the business firm taking that business than On-the lead in this line of enterprise is a better grazing country, figure up a total of nearly 9,000 live nowed engaged in this business in to are Messrs, Eastman, Snowden & Ontario, and think the advantages of McConville of Washington Market, in of rural neighborhoods. The social cheap land and nearness to shipping this city, the first named well-known features of the Order are without ports along with the other advantages on the Produce Exchange. Through doubt those of greatest importance, and blue grass; soil clayey loam. It duce with greater regularity.—Country named above are all in favor of us, they buy animals spited to the trade but they said it was useless to attempt and forward them by rail to tideto trade with the cattle we now have, water, paying \$220 for each car, cash chiefly by arousing his social nature scarcely so, that I recollect, and it is formidable item, the expenses on Atlantic. Our breeders should give this account for steamer "Holland" heed to this. So long as they will amounting to between \$13,000 and co. tinue to raise the small, ill bred \$14,000. Besides the firm above named their farm, their representatives in chard grass is always as good and that the system of feeding them al-

The opportunity is a good one for from Canada, but if the story certainly is "thin." Another in the background; that is just what the story certainly is "thin." Another the s to improve their live stock—with a favorable circumstance is the recent such men should not do. view to the large and weekly increas- action of the British Parliament in ing deman for well-breed steers, removing the prohibitions against imsheep, and hogs for the English mark- porting live stock, so far as concerns ets. The small, unthrifty cattle, of several principal ports, fear of the matoes are raised by the French in clayey in composition—not loam, which so large a proportion are found rinderpest being only imaginary and this manner:—As soon as a cluster of gravelly or sandy—will yield orchard on Canadian tarms, are quite unfitted of less moment that the popular for sement to Europe; and the loss clamor for lower prices. It is there sustained by keeping them instead fore practicable to land American live of large, well-bred animals, can be stock and "hold for a rise," instead distinctly seen from the comparative of immediately slaughtering and sell- of flowers each. When these are visi- thing, but timothy-a very common prices paid for the different classes of ing off under compulsion. As live ble the branch to which they belong sort, in my opinion, for farm stock stock in our weekly market reports. cattle are worth in the foreign market In the month of June, the price of four cents more per pound than dress-

from \$8 per head down to \$3. Spring back, usually the result of bad inches high. In order to prevent the latter in most cases does in five or sence of a number of skeptical farmers their good, but if it is fed only at long ing on the surface to a depth of an cooling off febrile conditions more effrom \$8 per head down to \$3. Spring back, usually the result of bad inches high. In order to prevent the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases does in hvo of the latter it most cases from \$14 down to \$2. Many thousands like the human kind, some animals of of these ani nals were sold in the To- ruminating habits suffer more than ronto market alone during the month, others from a change to sea life. It ronto market alone during the month, others from a change to sea file. It were sown so far outgrew the rest that the where they can have easy access to it, go that sheep cannot be kept more with which their children are freand the vast loss to the farmers from is necessary, therefore, to ply them to this, all laterals whatever are higher than a couple of months on it before a long distance. From that from wasting by rain that the from wasting by rain that from wasting by rain that the from the proportion of the stock sold ought to epsom salts, nitre and molasses, the directed into the fruit, which acquire farm myself I would have a hundred read for a long distance. From that from wasting by rain. This avoids set them thinking seriously of the latter being adminittered in the profolly they are committing. It would portion of about one barrel to one not be difficult to demonstrate that hundred cattle during the voyage, tainable by other means.

The same story comes to us from meat were lost, valued at \$50,000.

from England tell us that beef in the It follows from the foregoing state-

BREEDING SHORTHORNS FOR BEEF points- the eye well open, clear and placid: the action alert and spirited; gives plenty of play for large vital organs-all these together indicate the possession of a sound and vigorous constitution. Then the wide shoulder. full crops, round body, broad loins and hips, and the hind quarters long level deep, and square, all together vouch for the presence of abundant beef, the excellence of which is varified by the mellowness it reveals to the touch should, throughout his entire frame, be as small and compact as possible in proportion to the weight of muscle they bear. The finer the bone of any beef animal the better, if it only ful the bone of any race of cattle improved by breeding is much stronger in proportion to its size than that of the scrub. The latter is coarse and porous the former solid and compact. The fineness of bone manifests itself in several particulars which our shorthorn bull ought to display, modified the export movement of American of course by the effects of his mascubeef cattle, also of the hog produce in linity. Let us see. Is his leg, which is well muscled and tapering above which turns at right angles at the exwhich this traffic has aitained within tremity of a well-extended rump, fine cattle, the largest ever shipped at New | bull passes muster in all these impor-

The grange has done an excellent work in bringing together the people farmers' calling; but it has done this year since, with no manure at all, or looked. They can only do this ty are qualified for public station, the acre.

ORCHARD GRASS. The merits of orchard grass do not seem to be well understood or appre different items of farm work is that of ciated by farmers generally; and it is mulching fruit trees. The fact that a pity we are obliged to wait until frequently, for weeks at a time, trees this season of the year in order to are subjected to a severe drouth, durshow them examples of it. Of course ing which the soil around the trees, we could have no better time only and even the roots of the trees, become that the time of seeding is past, and dry and parched, and the leaves bebeen sown than the previous few stronger lesson still from across the as these vary materially the calcula- get all about the value and import- enough to show it the imperative duty of Hon. J. W North-very much istence is insured by timely mulching, selling in the English market a steer sarily heavy from the start, including at which date it measured over two and regular moisture. The soil should the intention of writing an article on be had to watering. This is an imits merits and advantages—but just possible task in a large orchard, and the country, and the author of several other purpose. Chip manure, saw-

of farming. He says :am cutting a piece of orchard grass about one acre, which has stood in the lawn of my dwelling for the past thirty years. It averages fully three feet high, and portions of it run to four feet and upwards. It is in full longer would deteriorate it in quality for hay purposes. It is more or less bloom, and both in perfect condition for the best quality of hay. The soil n which the grass grows is a strong clayey loam. It has had little stable manure for years past-none at all for several successive years—and last year a liberal dressing of unleached wood ashes on the stubble after the grass was cut. To appearance, the grass now yields fully two tons or more to

red clover, as it should be (for they are both in cutting season together, and the cover fills in the spaces beas the orchard grass remains. People half as much wood, and instead of a wide berth.

Exporter, both of which we commend English butchers frequently represent The opportunity is a good one for from Canada, but if the cattle are fat prove this, that many able men keep out sooner than blue grass (Poa prastrongly and produce another cluster men who buy hay don't know any- almost equal satisfaction. is also topped down to their level, and uses, and quite inferior to the mixed cattle in the Toronto market ranged ed, the concession here noticed has an By this means the plants become stout vantage orchard grass has over timo-

MULCHING FRUIT TREES.

Not the least important of the many tural life, remember that industry, before another spring many will for- come shrivelled, and almost crisp, is face. ance of this grass. Many instances of every grower to mulch his trees. reap abundantly. Do not waste your of its value are seen in yards in this Even if trees will grow and do well in means, and fritter away your time by city, but the most marked that we re- an indifferent sort of manner, the fact raising a crop of noxious weeds with member this season was that in the that their continued and profitable ex- your cane or cotton or corn. shaded by large trees, but yet cover- is enough to convince a prudent man and its surroundings. But it does ing the ground completely and stand- that it is not the least of his duties. not follow that you should imbibe ing thick and tall. This was cut on the Fruit trees, to do well, should be "eye-openers" at public houses, beer 13th of June, just before blossoming, planted in mellow soil of continued shops or corner groceries. feet in height, and yielded we should also be frequently cultivated after the when you shed your coat for the seajudge fully two tons of hay per acre. trees are set. To keep the soil moist son. Then be careful that some We made a memorandum of this hand- in this climate, is a dfficult matter. smart "travelling agent" does not some grass on the day it was cut, with Where there are few trees, resort may pull the wool over your eyes and here comes the Country Gentleman, it behooves the careful cultivator to rather than yourself with broadcloth. with an article from the pen of Mr. seek some substitute. This is only The one reimburses the amount ex-Lewis F. Allen of Buffalo, N. Y., giv- found in some light material that can pended with interest—the other reng his experience with this grass be spread on the soil around the tree. preventing evaporation. It is not standard works on different branches dust, and shavings are frequently your mind, and raise your courage used; damaged hay, straw, and marsh and spirits beyond measure. "On this 11th day of June, 1878, I hay are all superior for mulching purposes. With me the best article or great. If you must do something is straw which has laid in the cattle of the kind, just curry your cattle and vard all winter and is about half horses. This will do them good, and rotten, and also the straw that is used to litter the early calves. I usually have a quantity of half-rotted straw weather, you cannot cultivate the that possesses a merely nominal value soil, it will be wisdom to your part for manure. By using it for mulch- to cultivate the mind. A valuable ing it is subjected to the elements, and harvest will reward all earnest and

in three or four months it reaches faithful culture. such a state of decomposition that it ioining land. This is an unimportant you are tempted to do so, go into matter compared with the benefits your field and plant an extra acre arising from having the surface of the with some edible crop. soil for three or four feet around the fruit trees, protected from the rays of Mulching should extend farther then the roots of the trees. The material depending somewhat on its character, trees are mulched there is danger you are willing to work for it. cellent hay for all classes of farm from the wind for a few days only, as Make the collection and composit-

mulched annually and those which whisky shop. are not mulched is most extraordinary.

GENTLE HINTS TO YOUNG FARMERS.

economy and integritry will insure success, and form the best capital that can be employed. Plow deep. The wealth of the soil

When commencing your Agricul-

is not all within six inches of the sur-

Cultivate thoroughly if you wish to

Keep a watchful eye upon the farm

Sheer your sheep at the season

Dress your lands with fertilizers turns nothing, but continually clamors for further disbursements.

After your crop has been raised, it

Do not curry favors with the rich

When, by reason of inclement

Never allow yourself to be inveigis profitable to spread it over the ad- led into "running in debt." When

> The Sheriff is an undesirable acquaintance. Avoid him as you would a pestilence. This can easily be done by paying cash on the spot for every

thing you purchase. Remember that everything of valu should be from four to eight inches we honestly obtain is the result of The real value of orchard grass is deep. If trees are mulched at all, it diligence and intelligence. Do not should be done effectually. After therefore, expect prosperity unless

stock; and mixed on the ground with the mulching settles and in a few days ing of fertilizing materials a constant employment. The odor of your I can say from experience, that the manure heap should be more attracdifference between trees that are tive to you than the smell of the

> While a tree that is mulched will grow owner and raiser of stock. No farm Permanent Pasture, refers the above small quantity of mushroom spawmmore wood in a season, and ripen it is complete that ignores stock rais- subject as follows: perfectly in the fall, a tree that is not ing. Get the best, which is always A still more formidable enemy to fairy ring of a meadow. It is impos-

chard grass, suppose it will run out it too frequently commences to dry up cause they are cheap tools less in almost all situations, and in tice of manuring.—Gardeners' Croniafter a few years' occupation of the a month or six weeks too soon in the are an unmitigated nuisance. The every description of soil, but more par- cle. about an acre of it on my farm, sowed which is regularly mulched, will pro- make a good job with them. It is their luxuriance on moist, inferior soils.

books and papers relating to agricul- them by going over the surface with he does not need cleaning. Such A Word on Pigs. - A correspondent ture. Successful farmers read ex- sharp, close-teethed harrows, crossing man to be consistent, ought not to wash with few exceptions; none but large, in advance. The freight charges from stimulating his intellect, and thus now a heavy crop for hay uses. I adwith few exceptions; none but large, in advance. The field that the present season is an unfine cattle will pay to send across the fermideble item the expenses on the purpose their best thoroughly scratched up; clear off We feed our horses one bushel choppublic approbation. It is idle to say commonly early and favorable one in to plenty of moist sand or earth in investment. Occasionially, some the rubbish, and thereafter apply a ped straw (say eight pounds,) moist-

Another advantage for orchard roaming about at large consume a quired. In June, for example, when rows, refuse of the lime, etc. the various acorns, roots, larvæ, &c., tender, more salt is required than in not later than the middle of April, the food is before them all the time. English butchers frequently represent that the middle of April, the food is before them all the time.

It does not distance that the middle of April, the food is before them all the time.

It does not distance that the middle of April, the food is before them all the time.

November, when there is less milk sow a mixture of the best permanent is better and the graph of it when in confine. not be deprived of it when in confine- and the grass is better supplied with grass seeds, at the rate of from twenty grain or hay. A few rutabagas or gether for forty years, and they look self by observation that it is a natural the cows want salt where they can be obtained mixed and ready, and per day to each team. as spring appears to the cows want salt where they can be obtained mixed and ready, and per day to each team. as spring apgether for forty years, and they look equally good now as ever. Any good want. If a sucking pig but a fort- have access to it every day or oftener suitable to the nature of the soil, from proaches feed more liberally.—Rural, Tomatoes.—French method.—To friable soil, no matter if tenacious or night old, that has never left the sty in the latter twice a week will answer all demands. The best way I have the seedsman with whom you are in be turned out into the open, it will at tried for salting cows is to keep a lit- the habit of dealing. If there be any APPLES FOR MEDICINE.—Apples, in once begin to eat sand greedily if the salt in the manger, where they tufts or tussocks of coarse grass it addition to being a delicious fruit, flowers is visible they top the stem grass in perfection. I admit it does that be accessible, or in its absence can have access to it every time they would be well to root them out. Brush make a pleasant medicine. A raw, will indulge in earth or cinders with come into the stable to be milked. down to the clusters, which soon push not make a marketable hay, as most will indulge in earth or cinders with come into the stable to be milked. They will lick a little every time harrow again, and finish up by rolling and a half, while boiled cabbage rethey come in when the grass is very with a heavy roller. On sheltered quires five hours. The most healthy Benjamin Franklin has the credit not enough, as tests made upon the mansion houses, where sheep only are is a baked apple. If eaten frequently of being the first person in the country, quantity and quality of milk have who made use of gypsum or land proved. Later in the season they grazed, and where from various causes butter, without meat or flesh or any plaster as a fertilizer. The manner will take it less frequently. If salt the pasture is not eaten sufficiently kind, it has an admirable effect on in which he used it may be somewhat can be had ad libitum cows will never bare by the sheep, we have seen moss the general system, often removing down to \$3 per 100 lbs. Sheep ranged Losses at sea are a serious draw- dwarf bushes not above eighteen thy is its not 'running out,' which egotistical. He sowed it in the pre- eat any more than is required for and decayed vegetable matter collecthill-side, in the form of large letters, | For salting young cattle the best arstretched horizontally along the rows requires breaking up, and an alter- spelling his name. After a few weeks rangement I know of is to place rock like a Turkey carpet under the feet. duced to substitute apples, ripe and spelling his name. After a few weeks rangement I know of is to place rock so as to keep them erect. In addition ation of two or three grain crops be- the grass upon which the plaster was salt in suitable box, or half barrel. To such a length does this sometimes sound, for pies, cakes and sweetmeats,

THE ADVANTAGE OF CULTI- a few months an extraordinary stock VATING THE SOIL IN

SUMMER. quently will cost the farmer nothing fit. The judicious saving of expense weeds as are annuals. Uprooted when they germinate, the tender germ perishes, and, hardy as many of them our Canadian climate makes the killing of weeds by the frequent stirring of the soil certain and comparatively easy work. This continued disturbance of the

same cultivation the soil is kept roots. During the driest weather it is most necessary that the cultivation between the rows of drilled crops be continuous, as the more you stir the soil during drought the more moisture the growing crop imbibes. The freshly turned soil possesses the property of attracting the dew during the night; the dew rests heavy on it, while undisturbed soil around receives little benefit from it, and this dew sinks into the soil and nourishes the thirsting roots. Soils of every variety are better for this frequent stirring, but on none are good effects so easily discerned as on the lighter soils. Morn ing and evening the horse and cultivator should be kept going between the drills. The weeds may have been utterly destroyed and the soil may seem loose and mellow, but the stirring of the soil should continue. Am monia, a necessary element of plant food, is conveyed to the earth in the dew, so that the nutriment from th atmosphere is supplied in greater abundance to the plants growing in the soil that is well fitted to profit by it by the hand of the diligent.

Another great object in the cultivation of the soil is to make it so loos as to afford free access to the air heated by the sun's rays, an absolute requirement for growing plants. Heat and moisture, as is-well known, are the great stimulants of civilization, and they are thoroughly incorporated with the soil by continuous summer cultivation more than by any other means .- Farmers' Advocate.

SOSS IN OLD PASTURES.

"Improving aud Laying Down of

is the enroachments of the mosses.

that the people ought to seek from this vicinity for grasses. Yet the or- some form or other, and considers ignoramus gets rich by "main good top dressing of lime, or lime ened with water and mixed with two strength and awkwardness." This compost. Unquestionably pure lime quarts of corn meal, to each team, is an exception to the rule, however. is preferable, and put on as hot as three times a day. They are allowed anima. they now uo, just so long they are allowed anima. they now uo, just so long they are allowed anima. They now uo, just so long they are allowed anima. They now uo, just so long they are allowed anima. They now uo, just so long they now uo, just so long they are allowed anima. They now uo, just so long they now uo, just so long they are allowed anima. They now uo, just so long they now uo, just so long they are allowed anima. They now uo, just so long they now uo, just so long they are allowed anima. They now uo, just so long they are allowed anima. They now uo, just so long they are allowed anima. They now uo, just so long they now uo, just so long they are allowed anima. They now uo, just so long they are allowed anima. They now uo, just so long they are allowed anima. They now uo, just so long they are allowed animal they now uo, just so long they are allowed animal they now uo, just so long they are allowed animal they now uo, just so long they are allowed animal they now uo, just so long they are allowed animal they now uo, just so long they are allowed animal they now uo, just so long they now uo, just so lo the fact is not likely to be long over- earlier for hay purposes, coming in many of the ailments of the intestinal subscribe for at least one agricultural rate of from five to six tons per im- plan to take it out of the racks at say exactly with red clover, the latter canal so frequently met with. He journal, but it will pay to take several. perial acre. The month of April and eight o'clock in the morning, and let up to the middle of March, would them have no food before them until SALT FOR STOCK .- The use of salt seem to be the best time for this noon. Then feed them and remove for any number. The following are learning to but in society, in the church and in soiling (green food uses), or chard ting a trough of wet sand in their sty for dairy cows varies with the season operation. After the lime has got a left in the rack at two cles give some information on this subject. The first is from the Toron. The first is from the Toron. The first is from the Toron to the subject of the political assembly. Thus they spring of the year, two bushels to the subject of the ground, removing letting them have all the straw they to help themselves ad hbitum. Pigs the greater the amount of salt re- all rubbish gathered up by the har- will eat until morning. In this way considerable proportion of earth with the flow is abundant and the grass In about a month afterwards, and will eat much more heartily than in

time there was no doubt in the minds both excesses and deficiencies, and reyears from this." - Maine Farmer. | land plaster as a fertilizer for grass. | Prof. L. B. Arnold, in N. Y. Tribune | the expedient tried of putting on for whole season's use.

RATES OF ADVERTISING.

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The number of weeks an advertisement is to be inserted should be clearly stated. When ordered out, and charged the full time NO. 14.

of hardy wintering sheep for the purpose of bearing it down as far as Soil cultivated regularly and fre- possible. In some instances we have seen a crop or two of hay cut. the for weeding. This is one item of pro. second year's crop being the heaviest, best quality, and easiest to cut. After is clear gain. The frequent stirring the first crop has been removed a of the soil effectually destroys such perceptible decrease in the thickness and sponginess of the surface will be noticeable, and if the second crop is a heavy one, and closely cut, all superare, the injury to the germs is certain fluous sward and moss will have disdeath to them. The roots of other appeared. The following year the weeds are also checked in their growth grass will be much cleaner and finer. if not killed. The general drought of and the sheep stock can be kept on throughout most of the season. We have seen a lawn so treated let for season's grazing at an increase of one pound per acre, while the hay crop of the two preceeding seasons yielded a roots destroys them, although by the profitable return. But, as our agricultural friends are aware, the best of moister than it would otherwise be, these methods for improving permaand the growing crops are nourished, nent pastures are but half measures, care being taken not to disturb their and are not always attended with the

THE ORIGIN OF NITRATES IN THE Soil.—In a recent number of Nature. Mr. Robert Warrington supplies a highly interesting resume of the recent researches of Schloesing and Muntz on this question. Artificially nitre is produced by putting ammoniacal matters, such as stable manure, on to soil, when the ammonia becomes oxodised, and the nitric acid so formed form a nitrate. When manure is added to the land a similar process of nitrification takes place. All this is well known. The difficulty has been to give a rational explanation of the why and the wherefore. No perfectly satisfactory account has been given, and the one now brought forward by Schloesing is so startling that, though by no means a priori improbable, vet it will need to be very thoroughly investigated before it can be accepted as more than hypothesis. Nitrifica. tion, according to the chemists we have named, is no mere chemical process; it is the work of a living organism, which thus acts in bring ing about a chemical change, just as the yeast plant does in promoting the fermentation of saccharine solutions Substances and forces which are inimical to living beings, it is stated. stop nitrification: thus chloroform boiling water, heat, bisulphide of carbon all stop the process; while, on the other hand, the addition of a small quantity of the nitrifying body (the ferment) is sufficient to effect the process. At Rothamstead a solution of ammonium chloride, potassium the phosphate, tartaric acid, and calcium carbonate was completely nitrified in a few weeks by the addition of a that is to say, of soil taken from the dressing, will stay on the soil as long mulched will very often not grow the cheapest in the end. Give scrubs restrain and extirpate in old pastures sible to over-estimate the importance not experienced in the growth of or- properly ripening what it does grow, Never purchase farm utensils be- They are to be found thriving more or modify alike the theory and the prac-

CARE OF HORSES .- Horses kept in by myself about forty years ago, mix- duce more and better fruit, than a economy to buy the best, no mater Where it is inconvenient or undesir, stalls and not doing much work, able to plough up and crop land thus should be regularly cleaned and fed Do not unwisely imagine that you overrun with coarse grass and moss, Some farmers seem to think that unwill be able to "get along" without something may be done to eradicate less a horse is to be taken out to work