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VOL. I.—NO. I.

COBOURG, AUG. 1, 1846.

Thems.-2s. 6d. PER YEAR.

From the Scottish Farmer. ON THE FIRST BRINCIPLES OF

AGRICULTURE. As every trade and profession must nowa-days have its axioms, postulata, or first principles, in order to give it & scientific, ply discussed by able hands, and Ellingdress among other crafts, it is highly reasonable that the art of Agriculture, which is now almost completely reduced to ascience, should also be permitted to assume its first principles. Without the knowledge of first principles, nothing can be expected from any of the practitioners of Agriculture worthy of attention. their practice being merely a copy from that already established, if not some gross devintion, perhaps, from the beaten track, by means of some erroneous idea of their own conceiving. Men acquainted with first principles will never deviate from them, while they find them correct; perthen, is the foundation from which we mure, can have its full effect. Dung will

ever be connected. tion to, and a careful and judicious imita- low crop, or, if on stiff clays, a sum-ner tion of, good Farmers, a man of mean; fallow immediately after dirty lea oats. talents is sometimes known to make a tolerable figure in this line. raise good crops; and good crops are no bad criterion of good farming. Indeed, a man, otherwise a blockhead (at least; one who has no notion of first principles), often excels those who adhere to them with scrupulous exactness; but this must be only where the knowing man wants land in the second stage of improvement, the talent of strict application. This tale it must not be considered so clean as in lent is an essential requisite for a Farmer: future it may be expected. We shall supindeed, it is indispensable in every occupation where success is desired.

The general principles upon which the success of Agriculture depends are-

1. Without draining wet land, no improvement.

2. Unless land thus drained is properly cleaned, the object of draining is frustrated, and that in proportion as this operation is executed.

3. Manures will always fail in producing the desired effect, in proportion as draining and cleaning are neglected.

4. Early sowing always produces shorter and stiffer straw than late sowing, and that in exact proportion to the times, when not affected by extraneous circumstances.

5. The various species of seed-corn are adapted to various soils, situations, seasons, and other circumstances.

6. Picking and propagating the best heads of the most approved kinds of grain and seeds is the surest method of preserving them undegenerate.

Draining .- This article has been amton's and Smith of Deanston's systems of draining are universally known. Almost every field has its own peculiar cucumstances; but as it is not our design in this place to enter into the minutize of draining, but to introduce it as a first principle in farming, we shall say no more about

Without draining, no improvement .-Without it, no other operation can be effeetual to the end proposed. When land is gorged with water, it cannot be cleaned. No labour is sufficient to do it, except in a very uncommon drought-in some soils not even then; and when land haps they may try some experiment con- is not clean, it is impossible to suppose sistent with them, and succeed. This, that dung, hime, or any other kind of maare to expect a rational system of Agric promote the natural grasses more than any culture, adapted to all the varieties of soils kind of grain which may be sown; and climate, and seasons, with which it must these, although the land is sown with artificial grass seed, will still thrive, and It is true that by means of great affection render the ground completely fit for a fal-

Cleaning .- Thursdepartment requires He may the Farmer's constant attention, and by this alone can be rendered effectuale Early ploughing is of much importance; and it as impossible to be too early at summer. fallows, or in preparing the land for turnips or potatoes, when spring sowing is over. As we at present speak chiefly of pose the land of a free nature, but exstate previous to draining. Every Farmer may plough to his own mind, accor-

so as to produce better crops; whether by communicating to the soil the vegetable food which they contain-whether by on. abling it to attract nourishment from the atmosphere-or by enlarging the vegetable pasture which it contains-or by dissolving that which the soil-already contains, so as to prepare it for entering the roots of plants. These are philosophical inquiries, not essentially connected with the present business. Upon this subject there are various theories-some of which. are extremely rational, and others extremely absurd.

Early sowing produces less straw than late sorging, and that in exact proportion to the times (cateris paribus) .- Tho knowledge of this erinciple, which was not discovered, at least not attended to, till the close of the last century, is of much importance to the Farmer. Before it was known and practised, the hazard of sowing land in a very high state of cultivation was very great. Oats or barley sown in such condition at the usual period of seed-time as formerly-viz., oats late in Marchand batley about the term of Whitsinglay-would have been often cntirely rained by being too strong - English barley (comm aly from Lincolnshire), and Datch, and many other early kinds of oats, Avere adopted without changing the time of sowing; and as these hive a tendency to produce shorter straw, they were found of much advantage in securing a full crop without dodging. But it is found that any of our-oats sown early produce a shorter and stiffer straw, which has the same effect. Early oats, however, nte still much in vogue. The Lancoln barley is almost out of repute: it is well known to some Farmers that the common Scotch barley is the best substitute for it tremely dirty by means of its late moist -as, when sown early, its straw becomes shorter, much stiffer, and less apt to lodge. Potato oats are a comparatively newspeding to the nature of the soil, and the cies, and are said to be natives of South grass he has to destroy; but, in general. America. It appears they were first imlight ploughing is sufficient to kill grass, ported into some of our midland counties which generally runs near the surface- of Scotland, in a quantity extremely and then, before the manure is applied, a small; and that they obtained that manie strong furrow is of much use, to this new from the circumstance of their arriving in earth with the dung. At same time, some a package of potatocs. This is a valuasoils will not admit of a strong furrow, un- ble kind of oats in point of meal, yielding less in the spring, before the moisture is two or three pecks per boll more than the exhausted. In such situations, harrow. Angue, which, in every other respect, we ing, rolling, and gathering grass roots fro-quently after every ploughing, is essent again losing ground in the estimation of tally necessary; but it is not our design some people; they are more apt than any other kind to keep the soil, like wild oats, and thereby to annoy the succeeding treat of the nature and properties of manures, and how they operate upon land, were they to be frequently shaken and

ploughed in dry, that they would be as great a weed too. They seem to have A KNOWLEDGE OF THE TIME. another disadvantage, which, in the present circumstances of our labour, is not a small one. They ripen along with the wheat: and that article being now more than ever the chief object of the Farmer. it is in danger of occasioning very serious consequences as to the timeous cutting of that crop. Potato onts are also extremely apt to shake, and seldom fail to drop in shearing. All kinds of early oats are fit only for fine land, or land in a high state of cultivation; but upon inferior land they are the best, when a bad season has thrown the seed-time too far back for common ones. Blainslie oats are our native early, and have a finer meal as well as finer straw; but they seem mostly out of fa-vour at present. These several varieties of oats and barley afford the Farmer great advantages in securing his grass-seeds, as well as his corn crop, in certain seasons and situations.

As to spring wheat, the dwarf kind, which is known to produce short straw, is also advantageous in the above circumstances; and as it has a natural tendency to produce short straw, it ought certainly upon rich soils to be preferred in winter.

Picking out the best heads of the most approved grains, is the best method of preserving the species from degenerating. -It must be evident to every one that grain has a constant tendency to degenerate. But whether its species suffers or not, it must, by a thousand circumstances, be so blended and mixed with other kinds, and oven with different grain, that it requires frequently to be renewed by picking and propagating the best heads. This is found by experience to be the surest method of preserving the grain; and so different is the produce of the earliest and most vigorous ears from that of the poor diseased ones, that it has generally obtained some name to distinguish it from that even of its own kind. A Farmer in East Lothian some years ago found, in a cold, bleak situation (Coldingham Muir), a very fine looking vigorous head of wheat -which, being ripe at a period earlier than might have been expected from its situation, he brought with him; and naving repeatedly sown its produce, at last furnished seed to a considerable part of that county, and even to farms in many a distant county. It is an excellent kind of wheat-being considerably earlier and more prolific than any kind we are yet acquainted with. It is known as Hunter's Wheat.

These hints may perhaps be of some use to Farmers who are only about the beginning of their agricultural pursuits. They may cause a little reflection, and occasion rational experiments, which may confirm, in their mind, the utility of such first principles upon which they were made .- E., Ayrshire.

Why is Tom Thumb not the smallest General in the world? Because in India there is a General Littler.

From the Scottish Farmer.

ORY OF AGRICULTURE NE. CESSARY TO ITS PRACTICAL IMPROVEMENT.

extremely hurtful to the advancement culties, however, arising from the natural and interest of the art, seem to arise in a of the subject, nor the discouraging cit great measure from very mistaken no. cumstance of theorists generally failing tions respecting it. An acquaintance to frame applicable systems, ought to de with the real theory of Agriculture, is | ter Agriculturists from perfecting the the knowledge of those general and fixed art, and attempting to discover bottom principles which ought to guide its prac- rules. General rules, capable of being long and repeated experiments-the na. laid down, which will in ordinary case ture and utility of which have been so serve the same purpose which every other proved, that, when directed to their pro- theory does in relation to its own practi per objects, there is every reason to ex. cal department. Where Farmers proceed pect that they will not miscarry or disaps with proper caution, in making patien point their reputed fitness. The princi- and lengthened experiments, their result ple, that cleaning foul and weedy land is must declare some fact useful to the art an essential preparation in cultivating, and give rise to rules which a man of in and in rendering the soil fit for the re-telligence will act upon with advantage ception, the health, and vigorous growth The principles of Husbandry will thu of useful plants, is as firmly established become more determinate; and rules as the correctness of any mathematical thus founded on actual practice, will de

simple and easy matter always to perceive the proper and applicable principle which the case occurring may require. This is the stumbling difficulty. It is but in comparatively few instances where the use and connexion of the principle can need no reasoning to prove that this and its strict subject are so evident as they are respecting cleaning, draining, and manuring land; and, in the practice of Agriculture, there are a thousand different cases where the true principle is uncertain, and therefore the rigid observance of an inapplicable rule would be injurious. The principles and rules es sential to most other arts are more determinate, and may be understood and illustrated in the chamber of an ingenious demand the exertion and information of individual; but the art of Husbandry is a la master. In so far, therefore, as Fai combination of so many facts,-a system depending for its accuracy upon such an extent of observation and natient experiment-that it is almost rash to anticipate such a precise system of rules, as can either be advantageous or applicable and it has been to such exertions on in every case. It is not easy to point out general rules, that can embrace in their use the endless varieties of soil, the difference of climates, the changeableness of seasons, and other local and incidental circumstances.

But what has powerfully contributed to increase the difficulty, is the incautious and preposterous procedure of many who have pretended to instruct by their systems, or who have unsuccessfully acted upon them. By so doing, obstacles have been raised which have greatly checked the progress of improvement. Agriculturists have been led to conclude, yet they were as happy and as wer that between the knowledge of the theory and of the practice of Husbandry, there is no intimate nor useful connexion; ed and book-taught Farmers,' &c. and it has become a very prevalent opineedless to take notice of such child nion, that every idea or rule which is assertious. Those who are willing

tion, if not consonant with previous practice, and perhaps illiberal views, is not thing better than the fancy of some whing siculindividual, and only calculated t attract the notice of those who have me The prejudices entertained against ney to throw away in experiments, or what is termed Theoretical Farming, so spend in amusement. Neither the difference of the spending and the spending are spending and the spending are spending as a sp These principles are the result of reduced to a theory, undoubtedly may b clare, by striking evidence, their natur But it is not here meant that it is a and fitness. This mode of studying A griculture is attended with a multitude of advantages. Amongst the rest, it ha the salutary effect of exciting the mind to exertion, and to inquiry concerning the subjects with which it is conversant. is an advantage-a truth universally ap plicable to the advancement of any branch of knowledge. To husbandry, however it applies particularly; for since the diffi culties of making use of general rules are singularly great, there is so much more need for inquiry and attention-the un certainty how principles should be han dled, and the latitude which general di rections must possess in their application mers are awanting in this kind of know ledge, to such an extent is their practice deficient. The circumstance of a spirof inquiry supposes a desire to improv by experiments, their knowledge and r part of Farmers through various distraof Scotland, that their present emine is owing.

> The experience of individuals is mulated scientifically-the know and discoveries of many are collecte the use of a few-and by the daily as provements that are made, the diabecomes more regular and unexc able.

Prejudices, however, will not permen to give up ancient and unprofitment outloms. It is said, "Our forefat knew nothing of these new schemes, as we would wish to be: no good is seen to come of new plans, and of le ed and book-taught Farmers,' &c. suggested as fitted to give general instruc- know the real state of " question, wil

and that Agriculture, as well as every ther art, has prospered and been impro-ged, in proportion as its principles have been inquired into and acted upon. Is it at all reasonable to suppose that Hushandry, which requires a high degree of attention and intelligence, is understood properly by men prejudiced against every new iden, ignorant of the nature of their wn operations, and mere machines guidd by early customs? It has been well faid, "That a ploughman, or one who only goes through servilely the common course of Husbandry, can with no more propriety be denominated a Farmer, than n apothecary's porter can be called a physician." What else does he do, in his uniform, antient, and illiberal procedure, than recollect a few particular seaons and dates, and remember that such and such a work has always in his pracuce been performed at a certain period? Buch an exhibition of the practice of husbandry would strike one with a sentiment very different from what is sometimes declared-"That Agriculture is the mother of arts." A very moderate degree of inquiry would lead men to see the folly and the injurious nature of such prejudices, if they are at all open to conviction; and no method whatever can be better fitted to produce this change, than he study of the improvements already made—the means used by which these mprovements were brought round-and he rules deduced from them by men of experience, explained and enforced in cheap periodical publications.

A number of circumstances have indiectly prepared the Farmers of Scotland for profiting by information—such as the situation and laws of the country, the education and economical disposition of the people, the means of communication, &c. This information and knowledge, however, has been mostly derived from the exertions of men proceeding in the tine of study and inquiry here recomgended. Experiments made by indivi-Hals discovered properties and principles funiversal, or, at least, of very extensive enefit-treatises were written, in which re collected the various points ascerand the Highland Society has difmuch useful knowledge—periodical Newcastle white the receptacles and vehicles of every new improvement

I knowledge, thus accessible to every heimenlightened the minds of Farmers, aspired them with the ambition of excelling, and consequently was productive of the best results. A taste for the art bemilne prevalent-it soon grew a fashion. nnie employment-and men of the most diffical minds have contributed their exerjons to the general interest of Husband. in; and in those districts of Scotland , were this course has been followed, ng. fulture is conducted on the most enadvantage. What a change is now to be seen between the present state of Scottish husbandry, and the view given of it by Letd Kames in his "Gentleman

Farmer!" * "About forty years since," his lordship says. "Husbandry was sadly imperfect-our draught horses miserable creatures, without strength or mettle,our oxen scarcely able to support their own weight, and ten going in a plough, led on by two horses—the execrable husbandry of infield and outfield generally established-the ridges high and broad, in fact enormous masses of accumulated earth, that would not admit of crossploughing—ribbing, by which half the castle Farmer, and having the proceed-land was left untilled generally—summer ings of but one. Club meeting to record fallow creeping in,-and a continual struggle for superiority between corn and weeds." In this way he goes on; and it is remarkable that scarcely one of the improvements which Lord Kames suggested has failed of being now realised.

In several quarters of Scotland, the state of agriculture presents appearances in many instances little superior to the view given by Lord Kames. Draining neglected-three white crops following one another successively, succeeded by a hay crop, very prevalent; and many other practices similarly foolish and unproductive. The prejudices of these Farmers against every change are almost insurmountable; and, notwithstanding all the means of information afforded them, anything opposed to their early practices is rejected and treated with the utmost contempt. In many counties, both of the west and north of Scotland, perhaps not one out of fifty Farmers (especially those of the lower order,) have ever changed their practice from proper or rational motives. A treatise on Agriculture is treated as a volume of heresy, and its projector as a hurtful member of society; and even such periodical works as might at least gratify curiosity, or afford matter for conversation on agricultural subjects, are never perused, though a great deal more of both time and money be in too many instances given to indolence or dissipation.

"The "Gentleman Farmer",-being a attempt to improve Agriculture on RationalParinciples. First edition. 21776.



COBOURG, AUGUST 1, 1846.

This paper, when taken in connexion with the Star, will not cost the Subscriber anything additional, as we have determined to give the two papers for 15s. a year. If, however, it be taken separately, by itself, the Subscriber will be charged two and sixpence a year, payable in advance.

We beg to call the attention of our Subscribers to the proceedings of the London Farmers' Club, the publication of valuable information has been given to the public by the gentlemen whose practical experience we quote; and we have no doubt but that when Township Clubs are once established in this District, we shall be able to lay before our readers information of equal utility resulting therefrom.

As this is the first number of the Newings of but one Club meeting to record. it cannot be expected that it should be filled exclusively with original reports. The discussion, however, of the London Farmers' Club given in this number upon the subject of "Manures," will be found worth the reading, and the Editors of the Star and Gazette have made arrange. ments for procuring the most approved old country Journals, for the purpose of assisting them, by extracts and otherwise, in making such remarks and comments upon the subjects discussed at the Club meetings, as may be useful. The Editors are no Farmers, nor is it necessary they should be for this purpose; and that they may not be misunderstood, they beg their readers distinctly to understand that this is not intended to be an "Agricultural Journal." but merely a memoran. dum, as auxiliary to the efforts now muking to organize the Township Clubs, of days and places of meeting, and the reports of their proceedings.

Arrangements have been made by which it is to cost no more than the money actually laid out in purchase or paper, ink, and workmanship, which will not exceed 21d. a number, and it is not thought that any farmer will grudge that small sum, if it were merely to be informed of the time of meeting in his Township, and the subject to be discussed. To those Farmers within the Newcastle District who may favour us with their names as Subscribers to our newspaper, the Newcastle Farmer will be sent gratis, and it is hoped that the great sacrifice which we thus make in labour and money, will be appreciated on the part of all the Farmers of this District, and that they will encourage us by becoming Subscribers.

It is, we understand, intended that each Club will appoint an efficient Secretary, whose duty it shall be to furnish a Report of the proceedings of each Meeting for publication, similar to the one which we give in this number for the Township of Hamilton; and in addition to this we which is begun in this number. Much shall be happy to receive and to publish,

as far as our limits will allow in the Far- Now, as regards the vegetable portions, tion of solid excrement voided by a cow. agricultural matters.

THE LONDON FARMERS' CLUB. From the Farmers' Journal.

NUFACTURE AND APPLICATION.

Farmers' Club was held on Monday wouk.

Mr BAKER, of Writtle, Essex, occupied the chair, and stated that the subject of their discussion, for this evening was "The economy of manures, as regarded. their manufacture and application." At the time the matter had been selected M. Block. He ascertained that 100 lbs for discussion, Mr. Cuthbert Johnson, of chopped ryo straw, given as food to who, from his scientific acquirements, horses, will yield about 42 lbs of dried was more conversant with all its bearings than any other member, had been requested to take the lead in the question, of rye 53 lbs. The proportion of excreand bothad very handsomely consented ment produced by various animals natuto do so. He was quite sure they would rally varies with the size of the animals, tleman of such distinguished talent to rious experiments that an ordinary bred bring the matter before them.

examine the terms of the question, I was rather puzzled as to how I should best direct my attention to the subject. My the arguments it is intended to support, difficulty arose not from a feeling that I should not find enough to say upon such Iy be found; throwing to the winds, I a subject, but rather in arranging it so as say, that object, there yet remains in the nary discussion of this club. Therefore, consists, a great deal of instruction, by your permission, I will confine myself highly valuable to the accomplished agrito the consideration of the manure of the culturists of England. I therefore refarm yard, its economy and application, commend those who are managers of Committee of the Farmer's Club have adopted for discussion this evening is one which they have justly considered to be of the highest practical importance, a conclusion in which I beg most warmly to concur, because it must be quite evicultivation of the soil, that upon the proper manufacture and the economical application of the manure of the farm vaid rests, the success of all great agricultural which have been recently obtained relating to the subject, and to the illustration they afford of the farmer's practical operations. The subject of this evening's discussion having been divided into two sections, the "manufacture" of the maour object, simplify our investigation, if we divide this examination into two sections-First the vegetable portion of the posed of the excrements of animals .-

has been a common phrase that "straw straw gives a quantity of farm yard dungis straw," and many do not know that if which weighs, a given weight of rye straw, or hay or corn is used, there is a material difference in the weight of manure produced, as has been determined experimentally by excrements (fluid and solid,) 100 lbs of hay will yield about 45 lbs, 100 lbs seeds listen to him with a vast deal of pleasure and the food on which they are fed; but and be highly gratified in having a gen- it has been calculated from results of vacow fed in the usual way, produces about Mr. Curitaerr Jourson immediately nine tons of solid dung in the course of rose and said-Mr. Chairman and gentle- a year. Upon this part of the subject men, I respond to the call made upon you will find much valuable information ms to bring the subject of this evening's in a blue book recently printed by the discussion before you with every possible. Government, the real object of which is feeling of alacrity; but I wish to state to support the continuance of the Malt at the beginning that when the card was Tax, with the estensible one of affording put into my hands, and when I came to information to the farmer. Throwing, however, to the winds the real object for which the volume has been published, and to which a complete answer might readito bring it within the limits of any ordi- hundred folio pages of which the book The question then, gentlemen, which the Farmers' Clubs to apply to the proper office, and they will doubtlessly be furnished with a copy for the use of their institutions; a book so full of valuable information, relative to the respective qualities of excrements, that it will repay a perusal-I mean in a scientific point of dent to every one connected with the view, and not as having any relation to the Malt Tax. In the recent experiments of Dr. Thompson upon the fattening properties of malt and barley, he found that in fourteen days a cow, conefforts. My attention this evening shall suming 1426 lbs of grass produced exactly be directed to a few chemical results 1000 lbs of dung-Parl. Paper, p. 45.) But when the same cow was fed for sixteen days on 3 lbs. of barley, 168 lbs. of mult, and 4721 of hay, she produced 1259 lbs. of dung.—(Ibid., p. 47.) Ahain, the food of this cow was varied; she was fed during ten days with 90 lbs of barley, 27 lbs. of molasses, and 274 nure of the farm yard first demands our lbs of barley, 27 lbs. of molasses, and 274 attention. We shall, in furtherance of lbs. of hay: the dung she now produced weighed 866 lbs.—(Ibid., p. 49.) She was then fed for ten days with 80 lbs. of barley 40 lbs. of linseed, and 2491 lbs of manure, and, secondly, that which is com- hay, the now produced 785 lbs. of dung. -(Ibid., p. 49.) This gives the propor-

mar, communications relating to our local it is evident to every one that it is the Other persons have, in various experistraw of various grain that forms the ments, investigated the amount of dung largest portion of these—substances of produced from a given weight of food and little value as fertilisers, until mixed with fodder taken together, and the results of the excrements of animals. It has been one of these series of experiments, have THE ECONOMY OF MANURES—THEIR MA- found, however, that the same quantity been given by Professor Johnston, in his of straw of different cere il grasses, con- valuable work, "The Elements of Agu-The usual Monthly Meeting of the samed as food by live stock, produces cultural Chemistry," p. 140. From these riners' Club was held on Monday very different weights of manure. It it appears that one ton of dry food and

> When recent from 46 to 50 cwt. After six weeks 40 to 44 " After eight weeks 38 to 40 Half rotten 30 to 35

20 to 25

When pretty rotten

So that we see from these experiments that when only half rotten, farm yard dung does not weigh more than one hal of what it does when in the recent state. This loss of weight is caused partly by the evolution of a quantity of gaseous matters of putrefaction, and partly by the aqueous matter drained from the heap, or emitted in the shape of steam; a loss which can easily be diminished in amount although not prevented even then in a considerable degree, by employing the manure of the farm yard in as recent a state as possible. The condition in state as possible. which manure ought to be applied to the land, in what state of putrefaction or decomposition, is a point of the very highest importance, one well worthy of investigation by this society, and upor which the more knowledge is brought to bear the better. There is practical question, namely, the state in which the farm yard should be kept during its manufacture, and the value of the compound produced. A great many of the farmers in my neighbourhood, in the county of Essex, believe that the farm-yard cannot be kept too dry; and that was the opinion of a great farmer in Dengy Hundred, a tenant of the celebrated Mr.Cline the surgeon, for he covered in the whole of the farm yard with a roof. He, there fore, was clearly of opioion that to have manure in as dry state a state as possible was most productive, and that it in sured a manure of the most fertilising description. Others, however, are of a very different opinion. This leads me to another portion of the inquiry, as to the most desirable state of dryness or of moisture in which the dung of a farm yard can be kept while preparing. this important point I have received very discordant opinions from practical farmers: many contending that it can hard ly be prepared in too dry a state; whilst others have stated to me as their decided opinion, that if the escape of all drainagefrom the farm yard is prevented, that then the dung can hardly be too wet. The # 1 is certainly in favour of this latter conclusion the result of some recent experiments by the celebrated German chemist, Sprengel, which would lead to the conclusion that at least the putrified urin of the farm yard becomes very consid erably richer in ammonia when previously

of experiments, even when it may be thought that those researches can hardly lead to much good. For it any chemist had been asked, if by mixing a quantity of water with urine and then putrefying at, such a process would add to the bulk of ammonia, that the chemist would most unhesitatingly have answered " No."-But that it does increase the bulk of the ammonia, and that not a small, but to a considerable extent, is beyond dispute.-Now, upon the quantity of ammonia contained in farm yard manure, its fertilising powers to a very considerable degree depend. M. Sprengel analyzed urine in three different states-1. When fresh. 2 After been putrified by itself. 3. After being putrified and previously mixed with its own bulk of water. When fresh, 100,000 parts he found to contain 205 parts of ammonia; but after putrofaction this proportion of ammonia was increased to 487 parts, or considerably more than doubled; and then watered proviously, it was then found to contain, after putrefaction, 1622 parts of ammonia, or nearly eight times the quantity it did when fresh. The following are the results of his analysis:-

	Fresh. I	Putrid. W	atered.
Urea,	4,000	1,000	600
Albumen,	10		
Mucus,	190	40	30
Benzoic acid,	90	250	120
Lactic acid	516	500	500
Carbonie acid	256	165	1,533
Ammonia,	205	487	1,622
Potash,	664	664	664
Soda,	554	554	554
Silica,	36	5	8
Alumina	2		
Oxide of iron,	4	1	
Oxide of mangar	iese - I		
Magnesia,	36	22	30
Chlorine,	272	272	272
Sulphuric acid,	405	338	332
Phosphoric acid	70	26	46
Acetic Acid		1	20
Sulphuretted by	•		
drogen,		1	30
Insoluble earth	y		
phosphates an	id		
carbonates,		180	150
Water	92,624	96,444	95,481

100,000 100,00 100,00 These experiments seem to me to bear directly upon the question of the dry and wet preparation of manure—a point so important to be well understood that I should be glad to hear the opinions of

Carrier Sec.

mixed with a considerable portion of rain; which the cultivator is sure to fall if he and hay, for good dung made by corn-fed water. This discovery shows the value is not ever vigilant in their management. animals, one which in very many instanfarm-yard manure, dwells upon several of them; he particularly condemns the practice "of keeping the dung arising plying them to the land without intermixture. It is customary," he adds, "to keep other rich food, and the refuse and waste attracts the pigs to the yard; these rout the straw and dung about, in search of grains of corn, bits of Sweedish turnips, and other food, by which means the manure in the yard becomes more immediately mixed, and is proportionately in-creased in value. The feeding troughs and cribs should, for obvious reasons, be shifted frequently. The horse dung is usually thrown out at the stable doors, and there accumulates in large heaps .-It is sometimes spread a little about, but more generally not at all, unless where necessary for the convenience of ingress & egress, or perhaps to allow the water to drain away from the stable door. Horse dung lying in such heaps very soon ferments, and heats to an excess; the centre of the heap is soon charred or burnt to a dry white substance provincially termed "fire-fanged." Dung in this state losos from 50 to 75 per cent. of its value. The diligent and attentive farmer will guard against such profligate waste of property by never allowing the dung to accumulate in any considerable quantity at the stable doors. The dung from the feeding hog-sties should also be carted and spread about the store cattle yard in the same manner as the horse dung."*

The enrichment of the farm-yard manure by improving the food of the live stock kept in it. This is a question peculiarly intetesting not only to the tenant farmers, but to the farmers' landlord. For when it is generally known amongst the landlords of England how much the quaiity of the manure is improved by the use of superior food, they will then see very speedily that it is the most wretched policy to discourage, or restrain, by a covenant in the lease, the exchange of straw

should be glad to hear the opinions of those who will follow me in this discussion upon it. The more carefully in fact we investigate the question which is the subject of this evening's discussion, the more important does it appear, and the more numerous the sources of loss to be guarded against. For, as I have elsewhere remarked—Nothing appears at first sight so simple as the manufacture and collection of farm-yard dung, and yet there are endless sources of error into * There is no doubt of the superior fertilizing

The late Mr. Francis Blakic, in his va- ces the farmer could effect with equal luable little tract on the management of advantage to his own pocket and to the high cultivation of his land. Now the questions of the highest importance which are originated and discussed by from several descriptions of animals in this club are questions which should aid separate heaps or departments, and ap- in the diffusion of knowledge not only among the farmers' of England, but among the farmers' landlords; because I the fattening neat cattle in yards by am perfectly aware that whatever goes themselves, and the manure thus produ-ced is of good quality, because the excre-public channels, find its way into their ment of such cattle is richer than that of studies; and I hope that every niggardly lean ones. Fattening cattle are fed with landlord in this country (that is, supposoil cake, corn, Sweedish turnips, or some ing that such a person as a niggardly landlord does exist in England), will conof such food thrown about the yard in- sider whether it will not tend to the evencrease the value of the manure; it also tual enrichment of his own pocket if he omit all covenants from his leases which prevent the farmer from exchanging straw or hay for far better manure than he can readily make, and whether it would not be to that landlord's own interest to increase the quality of the manuro new made in the straw-yard by the employment of oil cake and other food which would produc emanure of a highly superior nature. Of course, when the landlord is once convinced of the soundness of this policy, this result will follow; he will take care to have no covenant introduced in his leases which will militate against such a practice, but see that if the tenant has not, by the custom of the district, a right, to be paid for any outlay for oil cake, such a custom ought at once to be adopted; and if he cannot prevail upon his fellow landlords to give to their tenants what for shortness are called "rights," that he will at least provide that his own out-going tenant shall not be discouraged from employing oil cake manure, from the fear that when he leves his farm he will not be compensated for it. I carnestly hope these discussions will lead to a better general feeling on this subject on the part-of the landlords, and lead them to perceive that the more liberally they agree to pay their tenants for any unexhausted improvements with regard to manure, the better it will be for their own interests. Gentlemen, I was just saying that it was the most wretched policy to discourage or restrain by covenants in the lease, the exchange of straw and hay for good dung made by corn-fed animals, and I need hardly remind the farmers assembled in this room of the inferiority of the manure made by the lean stock of the straw-yard to that produced by the corn or cake-fed stock of the stable or the bullock-houses. The increased value of manure made by stock fed wit oil cake is considered by the farmers of my neighbourhood in Essex to be equal to one half of the oil cake employed; and so well convinced of the importance of encouraging the furmer to enrich the manure of the farm yard are Lord Yarborough and many other of the great and enlightened landlords of Lincolnshire, that they have wisely en-

couraged their excellent tenants to use be prevented, but the practice unfortuoil-cake, by allowing them for one quar- nately does not end here; the manure is ter of their outlay for all the cake used carted from the compost heap, copiously for fattening their stock during the last emitting a stream of gaseous matters, two years of their tenancy. wisely avoid the error into which by far highly fertilizing to the growing crops, too many landlords are at present led in Its exposure to the atmosphere, when the valuation of the manure belonging to spread over the land, adds still more to an out-going tenant, viz., that of regard- i the mischief; the sun and the winds coning as of little consequence the quality spire to reduce its value, until, when it is of the food consumed by the stock which at length ploughed beneath the surface, produced it; a delusion which I hope its best, its most fertilizing portions have will speedily pass away when the land- departed; and if this is the loss sustained lords of England shall better understand, by manure applied to arable soils, how as regards the preparation of manure, much is that loss multiplied when the their own true interests. To assist in compost of the farm yard is spread over this very desirable object, I would earnest. the surface as a top dressing to grass ly refer the landlords to a very valuable lands! How small a portion is absorbed paper, which both the farmer and land-by the growing crop, how large a portion owner can hardly read too often, by Mr. destroyed by the combined action of the Williams, Lord Yarborough's agent, on sun and the atmosphere! Now it ap-"The Tenant's Right to Compensation pears to me that a remedy may be found for un exhausted Improvements;" for its | for this loss; some implement surely can perusal will not only suggest several facts | be produced, somewhat similar to the subwhich it would be well if those connected turf plough, which shall by some simple with the tenure of land more constantly improvement enable the holders of pasture kept in view, but it will also give valuable support to one of the questions I am lands, but, at the same time that this beso anxious to impress upon the farmers of inclicial operation is effected, to deposit England, viz., the false economy of pre- either well rooted compost er some of the paring only straw-fed manure. William's paper is inserted in the "Jour. land. By this plan the decomposition of nal of the Royal Agricultural Society of the manure being rendered much less ra-England," vol. vi., p. 44. He remarks, pid, and applied in immediate juxta posiwhen speaking of what he well describes | tion to the roots of the grass, its elements as the increasing importance of the subject, "The allowance (founded not on by the growing plants as they are procustom, but on special agreement) is has duced; protected from the action of the ed on the assumption that the manure is sun and winds, every product of decomimproved to the extent of half the value position is turned to good account, and of oil cake consumed; but to get a fair average of both quality and price it is the fertilizer employed is needed to promade to extend over the last two years, and the allowance is two sixths of the mon wasteful mode of spreading it on the cake used in the previous year, making together the half of a year's consumption." This clearly shows that among the noblemen and gentlemen to whom I have alluded no doubt is entertained of the advantage of encouraging an improvement in the quality of the manure of the farm yard, and I think it is a ques. tion which can hardly be discussed too often, or to be too frequently brought under the attention of the landlords .-Having thus rapidly glanced at some of the chief sources of improvements to be adopted in the manufacture of manure, the next division of my subject includes. according to the terms of this examination, the economy of its : pplicati n .-This is a division of my subject which is of the highest importance to the cultivator; it is one great branch of the farmer's endless avocations in which great losses are necessarily sustained, yet still more are incurred by needless neglects and want of consi cration. For amongst the many sources of loss, we find that in too many instances the application of the manure is delayed until putrefaction has It is brought down from London in large generated and envolved a large portion of the richest ingredients of the manure .-Sure y in many instances this less might land; the attention of those who are of the Northumberland Agricultural So-

They which would if envolved in soil prove lands not only to loosen the soil of grass Mr. drill manures beneath the surface of the are as gradually absorbed and assimilated consequently a much smaller portion of duce a required result, than by the comsurface, even aided as it commonly is by the very imperfect and ineffectual attempts to bush-harrow or roll it into the land. By such a mode of application too as that to which I have alluded, the use of the manurc is very materially economized, for it is a means of extending a given weight of manure, over a much more considerable extent of the land than is practicable on the ordinary surfacedressing mode. And when we reflect upon the small proportion per acre of bone dust, of rape cake, and of other finely divided organic fertilizers, which are successfully applied by the drill, we can hardly avoid the conclusion that it is more than probable that by new and more economical modes of application, great improvements are yet to be made in respect to the use of farm yard manure. I have been induced to lay great stress on the wasteful application of farm yard manure when used as a top dressing for grass, by having my attention drawn to the wasteful manner in which such manure is applied in my own neighborhood. quantities, and after being put in a pile and turned over is then spread upon the

farmers and of those who are not is drawn to it by the odious stench which it emits, (for it is mixed with a great quantity of the night soil of London, an admirable dressing for grass lands,) and they are soon acquainted through their noses that an agricultural operation is going on. This smell shows that a mixture of ammonia and sulphuretted hydro. gen is being evolved from the manure, which by being dispersed is lost to the land, and lost to the grass, to which it is naturally so admirable a food. Now, if that ammonia, that sulphuretted hydrogon, could by any process be brought ander the surface, the roots of the grass would absorb it as it was evolved, decomposition would be retarded, the gas would be evolved more slowly, and consequently evolved in such quantities as are not beyoud the powers of the growing crops to consume. I therefore venture again to suggest that surely some implement may be constructed, that something like the sub-turf plough might be contrived, which would not only loosen the soil (a most excellent operation in the case of grass lands), but should also at the same time bring and bury under the surface the well rotted manure of the farm yardsome of which might be prepared on purpose for the operation; and although it is commonly believed that organic manures must, to produce beneficial results, bo strewed on the land in large quantities, yet long continued experiments have convinced me that the usual amount of organic manures may, to the interest of the farmer, be very materially reduced in bulk. I am quite sure indeed, from experiment, that the application of manures to grass lands in particular may be very materially improved in the way I have suggested. I have, Mr. Chairman, thus rapidly touched upon the chief points in the manufacture and economy of farm ard manure, which appeared to me to

be most likely to be productive of good in a discussion by the members of the Farmers' Club, and I trust that these imperfect observations will be the means of drawing forth the practical observations of those whom I see around me. The importance of the subject, I feel, can hardly be overrated; it branches out into so many divisions, that I have ventured to touch upon one or two only, leaving it to others to enlarge upon my imperfect notices, and to supply my manifold omis-In conclusion, I have only to thank the members of this club for listening so patiently to me during the time I have occupied their valuable attention. and if the observations I have made should have the effect intended, viz., that of drawing forth the remarks of the able practical men present in this room, my very humble efforts will be most abun-(Loud and hearty dantly rewarded. cheers.)

(To be centimuci.)

We have received from the President

ciety the following extract from a letter written to him by the Secretary of the Durham Agricultural Society, which, in allusion to the formation of Township Clubs and the good likely to result therefrom, states: "We of this County, (Durham) have lately organized ourselves into Township Societies as branches of the County Society, wherein premiums &c. are awarded for different kinds of produce &c. But I am sorry to say that no discussion of the merits of any particular branch of agriculture is at any time brought forth, as by such means more real knowledge in many cases is to be obtained."

We have also received through the Se-, cretary of the Durham Agricultural Society, a list of the Township Directors of that Society, whose names we publish below:

PRESIDENT,

Honourable W. B. Robinson. VICE-PRESIDENT, William Allan, Esq., Hopc. TREASURER, William Sisson, Hope. SECRETARY, Samuel Wilmot, Newcastle. DIRECTORS.

Hope.

Robert Fortune, -Charles Hughes, Sam'l Dickenson, George Lyall, Robert Bedford, Edmund Milson, Sam'l Scammans, James Lang, David Milliken, John Agar,

K. McKenzie, ~ James Smith. Aaron Choate, John Might, Alex. Morrow, James Lowe, Nathan Choate, J. W. Cleghorn, Alex. Broadfoot, _ Myndert Harris.

Clarke. John Robson, . Allan Wilmot, Wm. Mitchell, George Wylie, . Bradford Bowen, \ Henry Munro. John Middleton, \ James Blackburn Latrop Smith, Herbert Renwick, _

John Pearce, John Brown. Horace Foster, Edward Clarke, John Beavis. James Lorikin, William Brock, G. A. Jacobs. Chas. Tamblyn, Wm. McIntosh. -

Darlington. Robt. Fairbairn, David Burke,

John Simpson, Ira Burke, Daniel Galbraith, Donald Cameron, Matthew Joness, Ira P. Wilson, Robt. Beith, B. Mitchell,

James Mann, J. C. Troll, Hiram Boreland, John Galbraith, Wm. Lauriman. George Lauriman, Peter Lusk, John Wait, Richard Allan, John Smart.

Manvers.

Alex. Preston, Henry Jones, Robt. Gillis, Wm. Grahame, Richard Staples.

Cavan.

John Knowlson, Wm. Lough, Thos. Best, Wm. Armstrong, John Myers, Wm. Dawson, John Swain, Wm. Ayers, Wm. McNish. Robt. Grahame, Thos. Syors,

Cartwright.

James Cresar, John Bruce, Matthew Emmorson.

LIST OF OFFICERS OF CLARKE AGRICUL-TURAL SOCIETY.

> PRESIDENT, Henry Munro, Esq., Newcastle.

TREASURER, John Robson, Do. SECRETARY. Samuel Wilmot, · Do. DIRECTORS.

Clarke.

Moses Thompson, Theron Dickie, Richard Pascoe, Lotrop Smith, William Mitchell.

Newcastle.

Jas. Blackburn, Jr. Wm. Renwick, William Brock, John Gilbank. Bradford Bowen.

The Report of the proceedings of the Hamilton Township Club Meeting for July, is, we regret to say, not so full as we could have wished. It nevertheless contains some useful hints on the preparation and use of manures.

TOWNSHIP OF HAMILTON AGRI-CULTURAL CLUB.

Subject for discussion, MANURES, their preservation and application.

Pursuant to public netice given by the Township President, the first Meeting of this Club was held at the Town Hall in Cobourg, on the first Saturday in July. The Chair was taken by Mr. Wade, the Township President, and Mr. Crofton acted as Secretary. After some prelimi-

nary conversation-

MR. RUTTAN rose to explain the objects contemplated by the establishment of these Clubs. He contended for organization among the Farmers, who, it appeared to him, were the only class who did not confederate for mutual benefit and advantage. He dwelt forcibly on the peculiar necessity which exists at the present time of some steps being taken to insure co-operation, and a recognition of the claims which the Farmers have upon the protection of the Government; and this he thought could only be brought into effect by the establishment of Clubs such as that now proposed, in every Township; and although many difficulties stood in the way, and many discouragements presented themselves, chiefly in the apathy which seemed to press down those most interested, yet he was not discouraged when he saw influential men, good practical Farmers, put their shoulders to the wheel.

what might be effected by perseverance. from the establishment of the Bolfast Natural History Society, of which he gave an entertaining account, tracing its progress from a meeting of three or four persons to its arrival at the honour of being one of the first of its kind in Ireland. He then proceeded to offer some remarks on the application of manures, founded on the principle that no manure was so good for any crop as that which was the produce of the crop itself. He had been led to try bran as a manure for turnips, and had found it succeed beyond his expectation. He detailed the process at some length, and stated his determination to carry out the experiment, and read some extracts from Reports of Agricul. tural Meetings in Ireland, at which sufficient testimony was borne to the absolute necessity of paying attention to manures.

Mr. Ever highly approved of the principle of Farmers' Clubs, and thought steps should be taken for the purchase of a Model Farm, where the various experiments could be tested and carried out with efficacy. Farmers did not in general much like the idea of new experiments, where success was frequently more than doubtful, and whose failure entailed a loss which often fell heavy on the farmer; another suggestion which he offered was the establishment of a Farmer's Library, as many of the best agricultural works were far too costly for the generality of farmers; and he had little doubt but if a taste for reading were once introduced, much benefit would be derived therefrom.

Mr. Wane detailed the effect of an experiment which he had tried on a piece of land on which he had sown wheat,part of which he had manured, to render it equal in richness to the remainder, and found the effect to be most advantageous. Indeed, he said, it was his opinion that without proper attention to a regular system of manuring, the farmer could have

little hope of success. MR. PHILLIPS felt pleasure in coming forward to support Clubs organized on the plan now adopted; he thought that by thus meeting and talking over matters, each giving a detail of his own experience, that the farmers would not only derive benefit from the interchange of information, but be excited to redouble their efforts for improvement, and a spirit of honest rivalry be established. Mr. P. then proceeded to give the history of an experiment, accidental on his part: he had one patch of land of a very inferior quality, burnt up as it were, and totally unproductive; on this he spread a heap of mixed rubbish, in which were lime and wood-chips; and he found its effects greater and of longer duration than that of barn-yard manure.

The conversation after this became general on a variety of subjects, particularly as to the best method of preserving manures, and at what time they could with best effect he spread, whether while Mr. JELLETT deduced an instance of quite fresh or after fermentation in the

barn-yard; and it seemed to be the general opinion that in this country, where labour was high, and consequently proper care could not be taken to prevent the admixture of foreign seeds, the best plan was to allow it to ferment. Another question arose as to the proper period to cut grain in,-which of the three stages, "turning," "ripe," or "dead ripe,"—and understanding; and it is only in these at the request of these present, Mr. Wade social meetings that we can have this agreed to read, at the next meeting, a paper on the subject.

This was on the whole a most interesting and instructive meeting, and we regret that we cannot give a more accurate account. We agree with Mr. Ruttan as to the necessity of some system of organization, confident that without it the advantageous to attend, nor is there one rights of the Farmors will be slighted or so ignorant as that some new idea will neglected altogether; and we trust that the opportunity now offered will be embraced by all.

For the Newcastle Farmer.

TO THE FARMERS OF THE DIS-TRICT OF NEWCASTLE.

GENTLEMEN,-

I am happy to avail myself of the medium of the Newcastle Farmer, in order to say a few words in commendation of the decision of the Directors of the Agricultural Societies of the Counties of Northumberland and Durham, in attempting the organization of Township Farmers Clubs, somewhat after the plan pursued in the old countries and United States.

Experience is the best teacher, and if the experience of the Farmers of Upper Canada for the last few months fail to awaken them to their present condition and future prospects, then I can only say that any further efforts on behalf of the Agriculturalists will be but in vain.

A great many people blame the Government whenever measures militating against the agricultural interests are taken. It is not the fault of the Government, Gentlemen, it is our own fault .-The Government, whilst it hears from every other class of inhabitants,-whilst it receives addresses and Petitions from the Boards of Trade, from Lawyers, Ministers, Merchants, Mechanics, Forwarders, and all sorts of Associations,-never hears from the FARMERS. They do not ! appear to be known as a body at all, and how can the Government act unless upon such information as is laid before it ?-What wonder, then, that the particular interests of the Farmer should be swallowed up, and he stand as an individual unknown?

A Provincial Agricultural Society is TO THE PRESIDENT OF THE NORTHUMabout being organized at Toronto in this | month, and we of Northumberland have deputed our talented Secretary to meet the Deputy from the other Counties. If | that at a late meeting of the Directors a this be accomplished, then the Farmers sum of money, (far exceeding any former will be in a position to make themselves amount for the purpose,) has been voted heard. But in order to give it efficiency as premiums on Stock to be exhibited at as the Farmers' organ, the County Soci- ta Cattle Show in October next. eties must be efficient, and their efficiency

So much for our civil standing as a hody. As to the consequence of these Clubs to our improvement in the science of Agriculture, they are in my opinion of the very last importance, and lay at the very bottom of our prosperity.

"As iron sharponeth iron," so the mind in collision with mind will improve the communion. Should we not, then, Gentlemen, consider it rather as a privilege than a hardship to spend a few hours once a month, and perhaps a few shillings a year, in order to gain information so vital to our prosperity? There is no Farmer so perfect that he will not find it not be suggested by him.

There are farmers now in Canada who, so far as regards the management of a farm, and even in scientific attainments, will compare favourably with some of the best in the old countries; and I am sure all those will feel it a great pleasure to attend, and impart some of their knowledge to, and encourage by their presence, these Associations.

Recollect that "Union is Strength," and | mit for your consideration a few remarks. without it we must expect to remain, albody, either political, civil, or social.

have no right to address you thus, for I acknowledge that I am a very poor one, but it is because of the deep interest I take, and have always taken in the Agricultural improvement of the country, and from the circumstance of the official situation which I have the honour to hold in the County Society, that I have presumed to come before you with these remarks.

I have, &c. H. RUTTAN. Cobourg, 13th July, 1846.

For the Newcastle Farmer.

BERLAND AGRICULTURAL SOCIETY.

Sin,-I have been much surprised to learn from a member of your Committee,

I certainly had indulged the hope that | ing. ettes must pe enterent, and their smearest the fallacy of such a proceeding had been fubished by Charterion & Retter, at "The made sufficiently apparent, as not answer.

Fubished by Charterion & Retter, at "The Cobourg Stat" Office.

ing the end for which it has been adopted; for while thorough-bred Stock is allowed a premium, it is (under prosent circumstances) merely fostering a monopoly,such Stock being in so few hands, that there is in fact no competition; nor are the members of the Society, or the farmers of the County, benefitted to a titho of the amount which they would be by a different application of the funds.

That any person going to the expenso and trouble of importing Stock of improved breed, is worthy of encouragement and ought to be supported by the Society, must be granted; but the question is, whether more cannot be done by the means at the command of the Society.

We have had improved Stock in our vicinity for some years,—how many thorough-bred females of that Stock, (say heifers and ewes,) have ever passed into other hands from the original owners? very few I believe, if any, and if so, how can the flocks and herds of the members of the Society ever get much beyond a half breed, which never can by any possibility enter into competition with the full blood?

It is idle to talk about every person Let, then, the Farmers of the two sister | having an equal opportunity with others Counties of this District, Durham and of importing Stock; the main question Northumberland, make a "long pull, a is, Has the end been answered hitherto strong pull, and a pull altogether," for by the means already adopted? I conthe establishment of Township Clubs. tend not,-and would respectfully sub-

I believe I may safely affirm, that withthough forming nine tenths of the popu- in a very few years no less a sum than lation of Upper Canada, as a body, iso. £300 has been expended in premiums on lated and unknown, and occupy a posi- Stock; now, Sir, had this amount been tion, instead of the front, in the rear rank laid out in the purchase of young, thoof all the various other classes forming rough bred cattle and sheep, &c. and sold the population. Without improvement lagain to the members of the Society, say in our social condition and in our know- even at a loss of twenty-five per cent., ledge of husbandry, so in the same pro- (although that would not necessarily folportion must we expect hard labour, low,) and the produce of the sale again small crops, and low prices,—and last, invested in new purchases, and sold as though not least, without weight as a before, the process to be repeated so long as any money remained, it will be found As a Farmer merely, Gentlemen, I by making the calculation, that Stock to the amount of nearly twelve hundred pounds would have been distributed throughout the country; and the whole of the members of the Society might have been in the possession of Stock of a superior quality, and at a very inconsiderable outlay of trouble and expense, we should have had a vast accession of members, and the amount in aid from Government, would have enabled the Society to purchase successive supplies of the very best animals to distribute throughout the County, beside giving handsome premiums for a Cattle Show worthy the name. with reasonable expectation of fair and active competition. I am. Sir.

Your's most respectfully, A MEMBER OF THE SOCIETY. Hamilton, June, 1846.

TOWNSHIP CLUB MEETING. HAMILTON.—1st Saturday in September, at the Town Hall, in Cobourg, at 4 o'clock, P. M.—Subject for discussion,—Fall and Spring Plough-