ed oil of vitriol. This is one of the (itself, owing to this fatty material in it. the small quantity in which these all pounds out of it. they act also upon the soil.

in very small doses in cattle dung, yet and ranging between these two extreme, because of their decomposing action on soil, they continually renew themselves, all different, and yet all of them capable they last till all their acid is taken up to of being applied to the respective condisupply the wants of growing plants. Let us now, reader, if you understand how the acids of the salts of dung act, turn to of Indian corn meal that it is such a strong decay, render mould more soluble, fit it to become food for plants. This account of the action of mould and salt in catte dung may appear to you, reader, long and hard to be understood. I do request you not to pass it over on that account A patient reading, perhaps some may require ty o or more reading, will put you in possession of all you need know, to understand the why and the wherefore of the action of mould, and salt of what-What has ever manure may be used. been said of the action of mould and salts in cattle dung, is equally applicable to all manures. If, then, you bend your hones to this subject, and master it, your labor of understanding the action of other manures will be reduced to the mere statement of the several substances which they may contain We therefore proceed to point out other manures, composed of the droppings of unimals.

### NUTRITIVE QUALITIES OF INDIAN CORN.

The following observations in relation to Indian corn meal, were communicated to the Journal of Commerce by a physician of the city of New York:

"Yellow corn and white corn are not the same in quality, although they are identical in kind, and may grow in the same field. The nutritive qualities of the yellow surpass that of the white, and that is a good reason why the common sense of the people, or their ordinary experience assigns to it a preference, independently of its mere looks.

"Th investigations of vegetable chemistry have revealed to us many impor-tant and interesting facts. By the aid of

of the action of salts to those contained analysis, it has been ascertained that butin cuttle dung. In the first place, we ter in a pure state, is combined in all, or have salts of potash, of soda, of lime; or nearly grapes seeds, and grains. Out these are the most abundant and active, of one hundred weight of yellow Indian Then we have salts of iron, manganese, corn meal, for instance, a good chemist of clay, and magnesia. These last ex- can extract from eight to ten pounds of isting in small proportion, may be thrown (butter. Out of the same weight of white out of the account, bearing in mind, how- Indian corn meal, six or eight per cent everthat, though we set those aside, a plant of butter can be made, thus proving it to does not; they enter equally with the others into its composition. Let us begin with the salts of potash. It is fined diam meal, and one can satisfy himself becombined in cattle dung, first, with a attending to the usual process of cooking vegetable acid, the acid of mould. It is a nourisher of plants. Secondly, with mush, if a crust adhere to the side of the sulphuric acid or the acid of sulphur, calll- vesself, in cooling, it is apt to peel off, of

poisoners, existing only in small pro- 1 "It has furthermore been proved that portion in cow dung; it ministers to the the butter obtained from the cream of wants of a healthy plant. The same is milk, is not animal secretions, but that it true of the common salt, or the muriate previously existed, in the pure and origiof soda in dang. If it existed in larger nal state, in the hay or food of the cow; quantiti s, it would poison the plants to and a skil ul chemist can make more but-which it might be applied. The next ter out or a handred weight of hay than a salts are those of lime, phosphate, and cow can, as the cow must appropriate a sulphate of lime, or lime united to considerable share of it for the uses and sulphuric and phosphoric acid, forming necessities of her organization. Give a plaster and bone dust. The acids here, cow a hundred pounds of hay and she will if abundant, would have a decided bad render back eight pounds of butter, but and cultivation, it is found to be all alike-but influence, they are poisoners; Now from an expert chemist can realize 12 or 13 one kind originally. But there are permanent

exist in cattle dung, they act only be- . In the choice of the various articles of preserved a general permanent distinctiveness neficially. But if you apply a great ex- food, to suit our tastes on various occacess, even of cattle dung, you may be sions—to correspond to the multiplied at is important to know; some may be valuationed by the acids of those salts multifarions sorts and qualities of food, which we have called poisonous. To display infinite wisdom and goodness, continue our remarks on the acids of the sickness, in health, in toil, we it is to be observed that salts of dung, it is to be observed, that means abound, and when they are scanty, we demand different kinds of food, and They decompose that. That is, they different varieties of the same kind, to extract from the soil alkalies, or other satisfy our real and imaginary wants. Of substances, like those in the original salt, the grain stuffs, rice contains the least Now though appied, as they must be, fatty material, and Indian corn the most,

the bases or the alkalies and metals and kind of food, and that persons unaccusearths of these salts. What is their action? tomed to it cannot at first endure it. The What purpose do they serve in dung nations which feed chiefly on rice, are not applied as manure? First, they en et in-mear so robust as those who use Indian to and form a part of the living plants, corn, as the blacks of the south do. Perthey form a part of its necessary food, as sons unaccustomed to this kind of food, much as do the constituents of mould, therefore, will do best to commence with Secondly, when these alkalies and met-white Indian meal, in preference to the allic bases are let loose, by the disuniting yellow, as it is not so rich; and this pre-power of a growing plant, then they act ference of the white over the yellow has as alkalies upon mould. They hasten already occurred in England where the article is new.

> "There is only one more observation which I wish to make. As Indian corn meal contains so much fat in it, kept too long, it is liable to become rancid, and is then more or less unfit for use. In the shipments made to the West Indies the meal is commonly kiln dried, to obviate as much as possible this tendency to rancidity. For reasons just detailed, the white meal will keep rather better; and from its being lighter and milder, it is much preferred in warm climates, and as the yellow, for similar inducements is in cold.

# TO CORRESPONDENTS.

A Subscriber will find his questions ansicered in another place.

J. W. St. George. We have written our terms, Sc. in full, which, we trust, you will

## CANADA FARMER.

August 28, 1847.

### WHITE FLINT WHEAT.

We have been asked by several farmers who are anxious to adopt every available means to protect themselves against the recurrence of the evils they have suffered this wheat for seed. The Report of the committee of the Victoria District Agricultural Society published in our 14th No. has determined many to make a trial of this wheat, if they can get it. We have among us plenty of the white Chaff Wheat, which we believe is less sort of sympathy, imparts a chilly, death-like

is not the same, one proof of which, is the an ounce of sense answer. simple fact, that it has suffered as much in one who is qualified, does not examine and wheat, such a classification is the more necesassumfated, or to lose their distinctive features.

Difference of soil and mode of cultivation, same variety may in different districts be called by very different names. In such cases their is a " distinction without a difference." When seed of these supposed different varieties is sown in the same field, and submitted to the same circumstances of soil, climate suitable and what mode of cultivation should be adopted, or if any particular evil is to be guarded against, what kind of wheat is best adapted to meet the case, &c. &c. At present from the confused state of the subject, and the deficiency of information upon it, this can be but imperfectly done.

We have written to a Farmer with whom we are partially acquainted in the Victoria this place, but we would state here generally, that if any person in that quarter, or in any the genuine White Flint to Toronto, they would get a ready sale for it at a fair price. There is a pretty general inquiry after this 10th or at latest by the 15th of next month. We will send a few copies of this number of our Journal to be distributed among the farensure the sale of a considerable quantity, if written to for that purpose.

### FAIR AT SARATOGA-WHY WE DON'T GO AHEAD.

The New York State Society's Annual Fair, will be held at the above place, on the 14th and 15th of September. There is no doubt but that the exhibition will be well worth going that distance to see. As we remarked in a former number, it is to be hoped not a few of our Canadian Farmers will attend. Such a visit will do much to infuse a spirit of emulation into those who make it, and when they return to their several homes, we may expect to see its happy, vivifying influence extending itself to their neighbours-radiating as from so many centres of heat, until the whole body Agricultutural, is found glowing with a warm, lively, generous enthusiasm. Up, and forward! is the word. We shall be outstriped in the race. Our active, shrewd, calculating neighbours will carry off the prize. We are placed along side of them, our former advantages are taken away, and we are reduced as nearly as possible to equal terms; the object to be gained is accessible to both; compete with them we must, and if we remain indifferent to improvement; if every thing that can be omitted is passed over; if what is absoyear, schere they can obtain this variety of lutely necessary is only obtained at the last moment, if in a word, every enterprize public or private which has the good of the country in view, and which our neighbours so eagerly avail themselves of, is neglected. sreered at, or opposed until it dies, and by a

hardy than the common red, and this is by lethargy to all around it, what must be the some mistaken for the White Flint. But it result? Let any man with the 480th part of

There is "something rotten in Denmark." this neighbourhood from the attack of the fly Our social condition is anti-attractive, antias any other kind. There is a great deal of adhesive. In fact, as the quack in the play confusion among the different varieties of says, we are a "kind of a fluid." We lack wheat; it is much to be regretted that some all the attractions, except the attraction of gravitation, which prevents motion in a right classify them, giving each its proper name line. The particles of which we are socially and also describing its merits and distinctive composed are negatively electrified, they repet qualities. Much difficulty and error could each other. In every neighbourhood there thereby be hereafter avoided. In the case of are three or four, and sometimes sir classes. There is the man who boasts of "good famisary, as the different varieties from being by" at "home." He has seen "society", carclessly mixed, have a tendency to become and it may be, shook hands with "nobility." Though he may have disgraced his friends and been sent to Canada that they might get also cause a change of character, so that the rid of him, yet if he has a few hundred pounds, he must stand (No 1.) Then comes the man who may have been steward or butler to some great man "at home" or have filled "a situation." He has scraped together a few hundred pounds, he can ape the manners and assume the air of a gentleman, and he claims to rank (No. 2.) next to No. 1. Then we have, near the large towns, the revarieties, which preserve, or which so far have tired mechanic, (No. 3.) sometimes, not often a retired merchant. These three classes are of character under all circumstances. These in one sense farmers, they own and cultivate land. But they look down on the bona fide farmer. Among the latter there are three or four classes. There is the old Canadian Farmer, (No. 4.) who has been industrious or fortunate, and who lives in a nice house, and can drive a nice carriage. He feels above his neighbour, though they have lived side by side for 20 years, for the latter is poor, he has been a hard drinker, or shiftless, or unfortunate. He is (No. 5.) Then there is the old country man, who came here a farmlabourer, has been for some time a tenant. has worked hard, raised good crops, made District to send some of the White Flint to money, and at last bought a farm for himself. He knows little about the refinements of life: he has dealt with its rough, every-day usages. other, would send a few hundred bushels of We make him No. 6. We might go on and enumerate other distinct classes among those who are included in the general expression "farmers of Canada," but we have mentionwheat for seed. It should be here by the ed a sufficient number to explain what we mean. Now, No. 1 will not associate with No. 3 though he may visit No. 2, and allow his family to do the same. No. 2 and 3 mers in the Victoria District, in order that sometimes visit each other, but No. 2 is so they may see this intimation. We could anxious to keep pace with No. 1, that he does not care to be seen much with No. 3. Between the two divisions of our six classes. i. e., between No. 3 and No. 4, there is almost an "impassable gulph." "What are they," says No. 4, " who stick themselves up so?" "Nothing but a carpenter, or a tailor, or a baker-I knew him when he was nt worth six-pence;" and though the remark is uncharitable, as well as illogical, any attempt on the part of No. 3 to assume a superiority is sure to be thus greeted. Among Nos. 4, 5, and 6, there is now and then some intercommunication, but little cordiality.-Each class is tenacious of its standing, and as, in this country, there is very little dependance, whenever there is an exhibition of such a feeling, every one who stands lower in the scale, regards it with contempt. Add to the above the fact that all these

classes are sub-divided into two or three political parties, who have long been on the worst possible terms with each other, (though thank God, they have passed through the anguinary state, and there is no hope of amicable discussion, and an agreement to differ,) and remember a so that they are again divided and sub-divided ad infinitum into all sorts of religious sects and persuasions, whose antipathy is proverbial, and are think we have got hold of the reason sohy there is no such thing as public spirit, public improvement, or public opinion in Canadawhy, if one man of one class, brings forward a project it is looked upon with suspicion and distrust by every other-why rail-roads are talked of here, and none but a few speculators take any more trouble in the matter, while our American neighbours have talked, sub-