CLEAN SEEDING.

In all employments it is expected that the workman shall not only be expert in the manipulation of his art, but shall be well acquainted with the nature of his material. I can perceive no good reasons why it is not equally incumbent on a practical farmer to understand the true character of those plants which it is his especial interest to cultivate or exterminate. If our boys, while in school were required to make themselves acquainted with that portion of the vegetable kingdom which annually demands their attention on the farm, the profession would speedily assume a new and engaging aspect. The labors of the field would be blended with pleasant contemplations of facts of the deepest interest to inquiring minds-and agriculture, instead of being shunned as an irksome drudgery, would be justly esteemed as one of the noblest employments of a free and intellectual people.

The term weed is applied to those intrusive and unwelcome plants that persist in growing where they are not wanted, or a "plant out of place." Many of the troublesome weeds found on our premises are emigrants from other portions of the world. The number of plants indiginous to our section that are entitled to rank as pernicious weeds is comparatively small. As the original savage disappear with the advance of the whites, so do the native plants generally yield their possession as cultivation extends.

found among us are naturalized home, and are with difficulty to be persuaded or driven away.

The labors of the farmer are a constant struggle. On the one hand, by presenting the most favorable conditions possible, he endeavors to make certain plants grow and produce to their utmost capacity. And on the other to prevent the growth of certain other plants that are ready to avail themselves of these favorable conditions. The farmer is deeply interested in two points concerning weeds. First—how they get into his ground and second-how to get them out. Cultivation can be the more profitably carried on if the husbandman knows something of the nature of the plants he wishes to raise. If he would successfully operate in the other direction and stop those hurtful plants from growing, he can do so much better if he knows what are the peculiar habits of the individual with which he has to contend. It is an essential to be familiar with the manner of growth, and mode of propagation of a weed as it is with a useful plant. The plant that spreads itself entirely seed must be differently treated from one that multiplies by the root also, whether we would propagate or destroy. We should bear in mind that while we enrich our soil, we are fitting it for tares as well as for useful grain, and that thorough culture and good farming ensures a sort of general exemption from the pestilence of weeds, and renders easy the subjugation of those which make their way into our grounds. If the ground be not occupied with something good, there will be plenty of the bad to take its place. "Idleness is the mother of vice" in this as well as in morals. Possession is an advantage in other matters as well as law. A plant when fully established is not disposed to yield without a struggle, and the worst ones are generally tenacious of life.

in relation to each other. The largest ply more slowly. The husbandman, principle, and aid the more valuable

and expel the worthless. I once heard a learned gentleman beginning or immediately after the transgression caused weeds to spontaneously spring up in all places possible for them to grow; or in other words you might go into the depths of grass and other weeds would come purpose.

preserving clean seed will often save much future trouble and vexation. The observing man will notice the means which nature has provided for suffer it to remain till harvest time. the scattering of seed; and he will find that the most pernicious seem to have been especially furnished with contrivances to facilitate their dispersion. The burdock, beggar lice and others have barbs or hooks by which they adhere to clothing and the coats of animals, and are widely distributed, even in the forest by this agency. All the thistle family and many others have a tuft of fine silky hair attached to the seed, by which they are buoyed upon the air and carried from place to place; and are generally deposited in protected localities by the waves of the atmosphere, to the leaward of fences and other objects. So numerous are the ways by which seed are dispersed, that, however careful a farmer may be upon his own premises, a sloven and neglectful neighbor may cause him infinite annoyance by furnishing his lands an abundant supply. In some countries a farmer may sue his neighbor for neglecting to destroy the noxious weeds upon his lands; or he may employ it done at the delinquent's expense. Weeds that have been cut or pulled after they have bloomed should not be thrown in the barn lot or manure heap, unless you wish to have the work to do over again with their progeny, as the seeds will be thoroughly distributed in the manuring of the land. The better The majority of noxious weeds policy would be to burn them, or de stroy them before they bloom. In strangers, that appear to be quite at weeds, as well as in the government if they can find anything else to subof children, evil should be nipped in sist upon. the bud. In this respect the farmer should act in the spirit of the western savage who kill the women and children of their enemies as a sure way of preventing the multiplication of war-

One of the most troublesome classes of faith is that which seed at root and top as the garlic, dock, &c. Here not only has the propagation by seeds to be prevented, but a subterranean and hidden enemy has to be combatted. It is very important that the farmer should understand the way in which these plants grow, that he may know how to direct his efforts to subdue

Perennial weeds are easily destroyed during the stages of their existence; but later in the season they form strong roots in the ground, which have great tenacity of life, and which have in them an accumulation of nourishment which enable them to throw up several successive crops of herbage. Plowing such weed generally aggravate the trouble, for unless every fragment be removed from the ground—a thing very difficult to accomplish—each piece that is left makes a separate plant. In the case of weeds of this description, the necessity of early eradicating them is apparent, for if once well established, and an underground provision depot formed, the husbandman and the plant are placed in the condition of besieging and besieged forces—as long as the provision holds out the latter can maintain its ground. The tiller will do well to keep in mind two rules. Do not let weeds bloom, and do not let them breathe, for the leaves may be considered the lungs of the plant, and without the aid of these it cannot long maintain itself.

It don't require an unusual amount of gumption for a person to know, that to have good and wholesome Some one has said that all the plants bread, his grain must be clean of of a given place are in a state of war fifth; a thing we all most heartily desire. To accomplish it, like repelling to cheat under a certain condition, ones smother the smallest ones; the an armed foe, requires the united effort longest lived ones supercede those of of all concerned. It could be done in shorter duration; and the most fruit- a comparatively short time, if all who ful gradually take possession of the cultivate farms would manfully unite space which would otherwise have in the effort. Five or ten years of plies, is next to worthless. Can we been occupied by those which multi- persistent effort of all hands would dare we-accuse God of cheating us by reached in the fact that the character obliterate it from any section. It can changing the staff of life to something of a large percentage of all the immitherefore, should avail himself of this only be partially done as long as part worthless, by means that we cannot grants now arriving at Castle Garden have to steep them in the mind, in the neglect it. Filth is spread in such a avert, when we have done our part by is not of the material to fill the above- hope of thus extracting their innerplants in their struggle to choke down multiplicity of ways, that if a few producing it with our toil and sweat. clean their fields it will gradually find | Such is closely allied to infidelity. We its way back in some of the ways aladvance the theory, that God at the ready noticed. A compulsory law that would compel each person to of shaking their faith in the goodness glean his lands of these obnoxious of God. The advocates of transmutacumberers, would be a wholesome one, I tion, in this Bible reading land, ought and as just as to slaughter a drover's to be placed among the fallacious isms, cattle infected with pleuro-pneumonia, and go, like Millerism to the underthe forest wilds and clean off the trees to prevent the spread of the disease or and cultivate the ground and crab to quarantine a vessel for the same

is contrary to the Bible as well as cor- among the small grains and matures rect reason. Those pernicious weeds at the same time they do, and known these crops. But few of them are inwith those of the crop; this is particu- ily. In appearance it is so very differ- them are bulbous and seed producers communities, especially in the West, larly the case where the seeds of weeds ent from the grain it infests, that it can also, and multiply both in and above and the emigration commissioners reand of the grain are so nearly of the be easily distinguished and taken out ground. Such is garlic or wild onion ceive letters every day begging them

cult. Proper care in procuring and triumphantly over harvest fields at blooming time. This renders it so conspicuous, that nothing but sheer neglect (a species of laziness) will Its rough, black seeds when abundant among wheat, are injurious to the quality and appearance of the manufactured flour; and the miller who seeks a reputation for making good flour, and don't despise cockle is an anomily that would be a conspicuous figure in a variety show.

There is another class, a native of the same country, and known as spelt or Georgia cheat. It is the most difficult of all the tares to get rid of. It is so near the size and heft of wheat, and in appearance, while growing, so nearly like the grain, that it is next to impossible to winnow it at maturity or pluck it while growing. The only way that I can conceive to get rid of it is to pick it with the fingers from the seed grain. It is of a gluey texture and clogs the boulting cloth while grinding. It is unpalatable to stock. They refuse to browse upon it, consequently it will flourish in pasture lands.

Close akin to the last named is another of the grass family known as chess or cheat. It is lighter than wheat and can, most of it, be blown out with a fan mill. Its stem and blades while growing have a fuzzy appearance, and by close observation can be distinguished and pulled out from the grain. Its name is significant, and he who suffers it to grow around him will find himself cheated in the end, as it is extremely prolific and neither beast or fowl will partake of it,

Among the curious and vulgar errors that infest the minds of credulous and careless observers, may be mentioned the belief of a few farmers, and some of them good practical ones, that this troublesome grass is nothing more than an accidental variety or casual form of degenerate wheat, produced by some untoward condition or unpropitious season, or some organic injury, though it must be admitted, I think, by the most inveterate defenders of this faith, that in undergoing the change, the plant is surprisingly uniform in its vagaries in always assuming the exact structure and character of cheat.

We have a confederate in this controversy on transmutation, one Moses, the great Jewish legislator, and the first of the Old Testament writes. He was a prophet of the Most High, and supernaturally guided and aided in his writings. He lived forty years in Egypt the great wheat country of the East; and forty years in Midian with Jethro among the herds, and was familiar, no doubt, with all the grasses: and forty years in the Wilderness where he saw many other things besides serpents. His testimony is, after describing the creation of the earth, the firmament, the water and the light (these are the essentials of plant life) and giving them their bounds, that the herb should yield seed after its kind, whose seed is, in itself." Not in or capable of being transferred to another. An herb is a plant that dies to the root every year. If one herb can change to any other they all may. Therefore our crop would be exceedingly precarious. Taking into consideration this view of the matter we might possibly sow tares and reap good grain, or vice versa. The enemy that came while the husbandman was asleep and sowed tares among the clean grain might have benefited instead of damageing the man, if the season, &c., were propituous. If wheat will change why does it not, by changing the conditions turn to wheat again; or why not transform to some other herb as well as cheat. Cheat, as the name imought to be cautious how we advocate such theories before the young for fear taker in infancy.

There are many grasses and weeds whose fruit mature at the time the same size that their separation is difficult of the grain. It waves its colors above named, It is of European to stop further immigration West.

Welsh emigrants for the purpose of supplying an early pasture. This we could willingly forego in order to get rid of the onions. It is how completely naturalized and will stay with us unless we are vigilant in our endeavors to get rid of it, and the sooner the better as it will germinate after laying twelve months on a dry plank. Like the skunk, its offence comes of its odor and is lasting. This enters, when grazed upon, into milk, butter, tion are the Italians and the Polish cheese, beef and pork, and renders Jews. The contract system among them repugnant even to the most inveterate onion eater. Its effects not bands of them, whose passage is paid only reduces the articles, but abso- by contracts, come over on every ship. lutely renders them unsalable in the All of them go to work on railroads. leading markets at any price, and if The Polish Jews settle down on the the cow had the second lick at them east side of New York and sew butlike the milk drinker she would, no doubt, loath them too. Thorough culture in summer crops will ultimately in filth and poverty. The 'assisted' destroy them as well as the fertility of | immigrant is also a cause of trouble. the soil. Better persue a more economical and safe mode, than entail such wide spread destruction, such as I eaught John Dorsett practicing. He was going over his fallow field with a basket and mattock digging them up and putting them in the basket to carry to the wood pile and burn. His good lady entered her protest against burning them in the fire place, as they ruined the ashes for soap purposes, by imparting to them a flavor that we are not willing to take along with us in our sunday clothes.

Another disgusting mode of introducing filth into the grist is to suffer rats to harbor where we store gathering of great colonies of foreigngrain. They are double injurious as they consume the grin as well as defile | who herd together in their own quarit. All the poisons manipulated for ters, continue to speak their own lantheir extermination are exceedingly guage and commence to plot against dangerous, and I think it safest to the public peace as soon as they are leave them with the manipulations. The ancient mode of keeping cats for the purpose is the safest and most effective. They will catch them for sport as well as for food, and are eager for the chase when not pressed with hunger. This the facetious may term the cat-egorical mode.

As the Lord swore to hold war of American public sentiment would extermination against the Amalekites, so let us, in humble imitation, sow extermination against all filth in grain. If we become heavy handed and weary, like Moses did in the battle as suggested by the German societies against Amalek, possibly an Aaron or of the Northwest. It may not be easy Hur, among our friends may hold up our hands in incouragement until the jections, yet the signs of the times going down of the sun, and until the | should not be lightly disregarded, and last root, stem and blade be extermi- action should not be delayed until too nated from this fair land of ours. And then, and not till then, will the grumbling and muttering of the consumer about bad flour be hushed by the elastic tread and joyous salutations of the hosts of clean seeding and clean field farmers in their march back to Edenic days. And thus we may stay the tide of emigration of the West and Northwest and cause them to remain among us that we may have choice sons to inherit our lands, who will be noble enough to preserve their fertility and cleanliness.

DAVID MADISON PAYNE.

The broad, liberal and comprehensive policy adopted by the United sign of a book, these eminent men States in dealing with the question of immigration has led to the rapid development of the resources of the country, and to the aggregation of wealth, and also furnished a home market for our vast productions, agricultural and mechanical. We have drawn heavily upon the population of Europe for the bone and sinew to build our railways, till our farms and develop our mines. So far as these immigrants were possessed of thrift, industrious habits and law-abiding natures their coming has been esteemed a national blessing.

THE EVILS OF IMMIGRATION

The danger line seems to have been | elapse. named requisites, and, in fact, are not most essence and significance. If one safe or desirable as an element of our population. In this connection the it is surprising how clear and ripe that Philadelphia Press prints an interview has become which, when we left it, with Dr. Schultz, whose duty it is to seemed crude, obscure, full of perexamine all immigrants who arrive at Castle Garden. We quote from the doubt; but then it will not do to deal interview:

"Fifty per cent. of the immigration of the past few years is undesirable, its eggs-leave them in sand for the and half of that fifty per cent. is a positive burden on the country. Our ple who follow this plan possess nothwithout seed being carried there. This A species of filth that springs up cultivated crops do, and become min- present laws clothe us with authority ing better than ideas half-hatched and gled with them to the detriment of to send back about one-half of one per convictions reared by accident. They cent, of the total immigration. The and grass are introduced in a number among us as cockle, is of European digenous. The greater portion of absence of restrictive legislation is all and down the world in the delusion of ways. Many have their seed sown origin, and belongs to the pink fam- them are of foreign origin. A few of ready beginning to be felt in many that he is clad in sumptuous robes of

origin and was introduced by the first Most of the undesirable ones make their way out there somehow, and become charges on the community. Foreigners fill all the Western poorhouses and lunatic asylums. Some years ago they would make no effort to get further than New York, relying on their chance of getting a home on Ward's Island, but the authorities began sending them back from there. and they have now taken to the West. The worst elements in the immigrathe Italians is still maintained, and tons on men's clothing for the wholesale firms along Broadway. They live but undesirable new comers are in every nationality."

A statement of such a startling char. acter from one so well fitted to judge, should set legislators, political economists and other well wishers of this glorious Republic to investigating and devising some means whereby the wheat may be separated from the chaff, and whereby undesirable immigrants shall be prevented from embarking from foreign shores. The fruits of this system are to found not only in the asylums, almshouses and prisons of the country, but in the menace to our political system by the ers in the chief cities of the West.

It is time, certainly, that the best American statesmanship should devote itself to the consideration of this problem with the seriousness which its importance demands. Dr. Schultz is of the opinion that a head tax of \$50 or \$100 would meet the difficulty, but probably shrink from applying that remedy. A better plan would be the requiring a certificate from the United States consul at the point of departure, to suggest remedies free from all oblate to control a growing evil.—American Cultivator.

HOW TO READ.

Nobody can be sure that he has got clear ideas on a subject unless he has tried to put them down on a piece of paper in independent words of his own. It is an excellent plan, too, when you have read a good book, to sit down and write a short abstract of what you can remember of it. It is a still better plan, if you can make up your minds to a slight extra labor, to do what Lords Stafford and Gibbon and Daniel Webster did. After glancing over the title, subject, or dewould take a pen and write roughly what questions they expected to find answered in it, what difficulties solved, what kind of information imparted. Such practice keep us from reading with the eye only, gliding vaguely over the page; and they help us to place our new acquisitions in relation with what we knew before. It is almost always worth while to read a thing twice, to make sure that nothing has been missed or dropped on the way, or wrongly conceived or interpreted. And if the subject be serious, it is often well to let an interval

Ideas, relations, statements of fact, are not to be taken by storm. We lets an interval pass, and then returns, plexity. All this takes trouble, no with ideas that we find in books or elsewhere as a certain bird does with sun to hatch and chance to rear. Peoare like a man who should pace up purple and velvet, when, in truth, he is only half covered by the rags and tatters of other people's cast off clothes. -John Morley.