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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; perhaps 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 mathen, 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 im-

provement. 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 are 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