should be distributed along the bottom and sides of the pit before my approach of winter, and during that rigid season, the dung may be accumulated without any extraordinary care, and the intensity of the cold is unfavourable to putrefaction, and little loss will be sectained from the dissipation of the gaseous matter. Such farmess as may choose to take the trouble, and have suitable convenience of covered sheds, may pile up beforehand a quantity of dry winter, on such places as indicate a strong fermentation

2d. These remarks, and general reasonings will have prepared my readers for the sentiments I must express regarding the construction of our barn floors. They are the objects of my unquali-Red condemnation as an agriculturist, of my sincere regret as a friend of the country, and of bitter and deep bewailing as the anxhas promoter of our future and rapid advancement. Reform here cannot be effected without considerable cost; and I anticipate an obstinate adherence to existing errors, not with standing the soundmess of the conclusions, and the manifest utility of a change. raust, however, cling to the hope of receiving at least a limited and partial obedience : and I request my well wishers, who have soimated me in my course, and borne up my spirits in the midst of Afficulties, to listen to the call, and set the first yielding example. The increase of valuable manure will be incalculably great; and the solid benefits will vastly outweigh the trouble and expense I e only one plan by which this evil may be effectually obviated; that as there is a choice in the materials to be employed, such may is selected as are most accessible in any particular district. After mose to the sills, the void space below the flooring should then be elled and packed firm with earth. As there will be a necessity to at away all the present sleepers or joists, which, besides supportint away all the present steepers or joists, which, besides supporting the planks, bind and unite the two sides of the frame, pieces of fourte timber may be stretched across the whole breadth and at a quare timber may be stretched across the whole breadth and at a ower depth, and be secured to the bottom of the sills, either by a fourtise, or by driving down a round iron bolt. By this means the rength of the frame will be preserved unimpaired; and the operations may proceed without endangering the structure. The arth should then be filled in, till it rises to the level of the present the interior into its respective compartments, the arrangements hust proceed according to the use for which each part is designed. The stalls for the horses and cattle claims a distinguished share of ttention. The forefeet of the animal should stand on higher round than the hind, and there should be in every stall a gradual Il liquid matter. atward, that all the urine may flow towards the pit on the outade of the building, which I have described as the great reservoir The floor of each seperate stall, as well f this putrescible stream. s the gutter, may be laid with plank while the clay is soft and sielding, and every seam and interestice may be closed up by the sme substance. These planks—thus pressed and imbedded into he clay—may be nailed and secured to transverse beams running long the length of the barn, and so adjusted as to preserve sloping direction in the feeding stalls and gutter. - But in every ase where stones are within the reach of the farmer, they are desidedly superior in firmness, durability, and usefulness; and paing the floor with them, although perhaps a little more expensive In the first instance, will in the end much better answer his expecations. The stalls should be laid with them exactly in the manner, n which Water-Street here has been lately improved; and the gutter may be formed either of similar materials, or preferably of smooth flag-stones, like those forming our foot pavements.

The adoption of these improvements in the disposition of our parms will give a mighty impulse to agriculture; the urine and regetable juices, which are now lost and dissipated, would multiply the powers of fertility; and the extended cultivation of white trops from the wonderful increase of putrescent manure, would be propelled with a celerity proportionated to the ardent hopes of the country.—Extract from Agricola, Letter 23.

HUMILITY.—An humble man is like a good tree, the more full of fruit the branches are, the lower they bend themselves.

From the Farmer's Cabinet.

## DIALOGUE BETWEEN A FATHER AND SON.

WATER COURSES-DRAINING-MAKING MAY.

Father.—This is the proper season for watering the meadows, and I see that our neighbor Ticey is carrying out dung on the meadow above us; we must therefore prepare the water courses, and be ready by the first rain which falls. For the same reason which I gave for delaying the ploughing of these upper fields until the spring, I consider that what he is now doing had better be delayed also; I have often told him so, but he will not be advised, although he perceives that I benefit as much by his manure as he does, for as the drainage, which passes the foot of his meadow, enters our water courses on the other side of the hedge, and passes through their whole extent, they receive the washings of the fields above them; and I have sometimes, to convince him of the fact, taken him to see the very large crops of hay which we obtain by these means; but all will not do—I shall now, therefore, open the courses, and receive with thankfulness what he is pleased to give me.

Frank.—I have heard that the ground upon which we now stand, was a swamp when you took it—how did you work such wonders?
Father.—It was indeed a swamp: a sheep could not feed on it

in winter, and the grass which grew during the summer was worthless as food for cattle. After securing a lease for twenty-one years. I commenced operations by cutting a very deep drain across the top of the field, knowing that all the water must come from the higher ground. The former tenant had gone to great expense in underdraining in every direction, but although the drains were well made and filled with stones, they were useless, because they were not carried deep eaough to touch the clay. When I had cut to the depth of five feet, I almost despaired of success, for the soil was still boggy and full of water; another foot, however, brought us to the clay, and immediately the water rose into the drain and run a strong stream, until it fell into the course, which takes it to the mill stream below. There were then a few holes bored with an auger along the bottom of the drain, and all was complete. single cut was sufficient to drain the whole field; but I ought to oor, and it should be beaten down by a heavy mallet, till it is say it penetrates six inches into the clay at the bottom, by which completely consolidated. A stratum of clay should be next laid the water is prevented from overflowing on the lower side of the wer the whole surface, by which the moisture may be retained drain. As soon as I could get upon the land, I covered the whole and hindred from escaping through the earth. After divididing surface with a thick coat of quick lime, and in six months it was so drain. As soon as I could get upon the land, I covered the whole completely drained, and had become so firm, that horses and cattle pastured it until Christmas. I then determined to bring the water back over the surface by cutting rills, and conveying it by them to every part of the field; and have, as you say, "worked wonders,', for it is now the vest mendow in this part of the country. I, how-ever, attribute most of the success of the undertaking to the cireclivity backward, terminating in a gutter, in order to carry off ever, attribute most of the success of the undertaking to the cir-il liquid matter. To this gutter an easy descent should be given cumstance of laying the land dry before flooding, and making proper provision for carrying off the water as quickly as it can be brought on-a provision which is often unattended to in farming

meadows of this description. To ELKINGTON we are indebted for the present simple and most efficacious system of draining, for the discovery of which he ohtained a reward of £1000 from the British Parliament. I say discovery, for so indeed it was; he had put a man to drain a field, and passing him while at work, on his way to the sheep-field with an iron bar on his shoulder, and seeing that what he was doing was labour in vain, he threw the bar from his shoulder, which on falling penetrated the bottom of the drain, and on pulling it out, the water immediately flowed through the hole; he had tapped the spring as well as his ideas, which, like the water, flowed out; and this was to him a source of great wealth and honor. I must get his book, which is full of interesting plates, recording and describing this circumstance, as well as very many other instances of successful drainage in various parts of the country. I knew the Chairman of the Committee of the House of Commons who voted him the reward; his name was Colquboun; he told me that Elkington was a plain man of strong mind, but without education, and was compelled to employ others to do all his correspondence, and even the writing of his book.

But I knew another instance of recovering a swamp, still more curious: the herbage which grew upon it was of the coarsest species, and the spot had been noted for rotting all the sheep which had pastured upon it for many years. It was near a town, and the experiment was made by the owner, a man of large fortune, more for the example to others, than of benefit to himself. He regularly