and the whole expense of transporting the earth did not exceed 4l. 16s. When the work was complete, he levelled the surface of the heap, in a line with the mouth of the sewer, which conducted the urine from the interior of the building, on purpose that it might be distributed with regularity, and might saturate the whole from top to bottom. The quantity conveyed to it, he estimates at about 800 gallons; but as this calculation was founded partly on conjecture, for he measured not the liquor, it will be better and more instructive to furnish and proceed on nara, that are certain and in-controvertible. The urine was supplied by 14 cattle, weighing about 34 stone each, and kept there for five months on fodder and turnips.-The contents of the pit produced 289 loads, allowing 2 cubic yards to be taken out in 3 carts; and he spread 40 of these on each acre, so that this urine in five months, and from 14 cattle, produced a compost sufficient for the fertilization of seven acres of land. He states further, that he had tried this experiment for ten years, and had indiscriminately used in the same field either the rotten cow-dung, or the saturated earth; and in all the stages of the crop, he had nover been able to discover any perceptible differ-But what is still more wonderful, he found that his compost lasted in its effects as many years as his best putressent manure; and he therefore holdly avers, that a load of each is of equivalent value .- Conclusions of vast importance are deducible from this statement : and I cannot resist the feeling, of placing them in a strong and advantageous light. They speak a volume of instruction; and if we are willing to learn, they must lead to a very material aiteration in the construction of our barns. It appears, then, that in five months, each cow discharges urine which, when absorbed by loam, farnishes manure of the richest quality, and most durable effects, for half an acre of ground. The dung pit, which contained all the excrementitions matter of the 14 cattle, as well as the litter employed in bedding them, and which was kept separate for the purpose of the experiment, only furnished during the same period 240 loads, and these, at the same rate, could only manure 6 acres. The aggregate value of the urine therefore, when compared with that of the dung, was in the ratio of 7 to 6; so that we are borno out by these premises in this extraordinary inference, that the putrescible liquor which in this province, and under the management of our farmers, is wasted and annihilated as far as regards any useful purpose, is intrinsically worth more than the dung, as an efficacious and permanent dressing; and if we take into consideration, that this latter manure is not treated with any skill and judgment, it will not seem surprising, that the culture of white crops has never been carried here to any extent, since we have despised and neglected the only means of creating them.

These defects call aloud for amendment. No country is entitled to be stiled agricultural, where the fundamental maxims of the science are so outrageously violated, and where the prevailing practices set at nought the simplest rules of the art. Grazing draws forth no energies of the mind; it is compatible with indolence. stupidity, and a gross ignorance of all principle; the Arab in the desert can tend his flocks and herds, and leave their mustiplication to the instinctive appetites of nature; it is only the first step from the savage life, and in place of hunting for the prey which he deyours, man tames and domesticates the lower animals, but leaves their increase, their subsistence, their diseases, to the unguided agency of natural causes. 'T'is the plough, which awakens his dormant faculties, and stimulates to industry. Like the Sovereign of the creation, he commands, and is obeyed; he speaks, and it is The weeds, which are the natural inmates of the soil, disappear at his bidding; the grasses spring up, and form a carpet for his feet; the corns are subjected to his power, and wave their loaded ears around his dwelling; the forest gives up its fruit trees, to load his table with their luscious products; and the features of a rugged and forbidding territory are transmuted into the beautiful and sublime, and soften under the influence of his transforming smile. This province is still in a rude and unsubdued state; and its husbandry partakes of its general character .- For this, it is not difficult to account. Emigrants of all trades, of all habits, and of all runks of society, land on this foreign strand in quest of subsistence. Manufactures are the offspring of civilization, and of the accumulation of wealth; and cannot find their way but into an old country, abounding with resources and population. Here we have none, and cannot have them for a century. The unfortunate stranger, driven from the only stay on which his hope rested, seeks refuge from despair by plunging into the forest, and cultivating the soil to answer the cravings of indignant nature.

skill, without espital, without the benefit of instruction, he become a self-taught farmer, ready to run into every blunder which ignarance has invented, and to which the vicious culture of the country has lent the sanction of authority. His hut, his barn, his imple ments of husbandry, his seed, his stock, are all chosen with knowledge, and continued in use without the least exercise of the understanding. He has no landlerd to exact a rent, no gover ment to levy taxes, no rival to animate industry. He soon riv above want; the spontaneous productions of the soil yield him scanty subsistence; the luxuries of life are seen only at a dim a indistinct distance; and his faculties, thus lufted asleep by sarounding circumstances, fall into a state of torpid lethargy. It must be stirred up, aroused, and forced into action. This is province of superior and exalted characters, who, from their elevaed cank in society, preside over his destiny. To them a rich a ward of gratitude is due; and their memory shall descend to peterity, embalance by the blessings of a present generation. are approaching an eventful epoch; the public attention is excited we are prepared to count over the estalogue of our past errors; are panting after knowledge; and a new age-full of promise a pregnant with improvement-is arising on our desolate and forla

During this state of public feeling, the evils, which I have poisted out in our treatment of decomposable manures, cannot long a main without correction. The remedies are not only simple, be accessible to every farmer of moderate capital; and the wholes pence of the improvement will be compensated by the first, or

most, the second years's saving.

1st. With respect to the formation of a dung pit, I would a commend that a place be chosen near the barn, which should I dug about three feet deep, and of a size proportionate to the stor of entile usually kept by the farmer. It is not necessary, that i should be built round with a wall, or have a perpendicular descess as it may slope gently inwards, and deepen gradually towards the After it is thus hollowed out, the texture of the botto should be examined, and if found firm, impervious, and capables containing the juices, no further trouble is requisite, and the weis complete: but, if open and porous, it should be coated wis clay, and lined with large and coarse flags. Into this pit, earl from some neighbouring field, should be first brought, and stress over the bottom and sloping sides, to the thickness of from 9 a 12 inches. Thus a safe depository will be prepared, for the clear ings of the barn, for waste straw and weeds, for the sweepings the kitchen, for the stems of pens, beans, cabbages, potatoes, and short, all vegetable matter of woody fibre, as well as for the due of the feeding cattle. After a complete layer of putrescible ma ter has been spread all over, and when the symptoms of an action fermentation have become visible, the earth, which was thrown or of the excavation, may be slowly returned, and scattered on the surface of the heap, to catch the exhalations which are ascending Hither, too, the urine should either be conducted by a drain, carried by buckets; for it is an unpardonable waste to lose the be nesit of this rich and invigorating manure. The earth which Se at the bottom will greedily drink up the urine and the vegetable juices, and thus gain a large accession of nutriment and value soon as the pit is filled up in the manner herein described, it should be emptied of all its contents; and these should be carted to the field where they are meant to be afterwards applied, and there his down in some convenient corner, to be mixed up and sorted into profitable compost. The pit-adjoining the barn-may be aga lined with mould, and the former operations repeated in procuring and augmenting its contents.

According to this plan every farmer, at the first opening of not extures of spring, should cart out his dung, and form it at once into a composite pile, which, if skilfully managed, will gather heat, and under go the process of fermentation before it will be needed in seed time to, and of the should then instantly set about the digging of his pit, and the construction of the future manure. During summer, this pit should be emptied twice or thrice according be circumstances; and its fermentable and earthly materials transported to the ground which they are destined to fertilize, and there subflortunate to the sum of the construction of his future manure. During summer, this pit should be emptied twice or thrice according be circumstances; and its fermentable and earthly materials transported to a new process. Towards the full, which by its lengthsoft mildness makes amends for the advantages of more favoured regions, all those compost heaps as well as the dung about the barbulation without by ploughed. In the mean while, an additional stratum of most