

Miramichi, Friday Morning, June 23, 1843.

Agricultural Ionrnal.

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From the Dublin Farmer's Gazette. FARM YARD MANURES.

can compare in importance with the very commonly left to chance rather and a half of compost. than systematically carried on with farmer in arranging his operations. The manure commonly collected in straw of various descriptions of grain, tle, horses, and swine. The mixture form any new substance, neither by the putrefaction which ensues, is any ble loss of weight. Neither is the of food the stock consume. " If," dry food given to the cattle to eat, and also dry and weigh the resulting excrements, we shall find the weight ly made a great number of experi- the course of the year. ments on this circumstance, found that solid) while 100 lbs. of hay gave 44 lbs. Food which contains many watery parts, furnished, as may be naturally supposed, a still smaller propor-14 lbs; 100 lbs. of mangel wurzel 6 hs; and 100 lbs. of green clover 61 Agricultural Society. The dry straw of wheat is compo-

sed chiefly of carbon, hydrogen, and water, and about five parts of saline

Various salts, principally carbonate & sulphate of potash Phosphate of Lime 223 Chalk (carbonate of lime) 6 1-35 Silica (flint) 1. Metallic oxide (prin. iron) 611 1 the muriates of potash and magnesia, sulph

large aqueous proportion. That of ble door. Horse-dung lying in such black caule fed on turnips was found by M Einhof, to contain about 72 per cent of water.

By good management, and under By C. W. Johnson, Esq. F. R. S. ordinary circumstances, one ton of dry There is hardly a single operation straw will produce three tons of main the management of a farm, which nure; so that at the common weight of straw per acre is about one ton and a preparation of Farm Yard Manure. half, the straw grown upon that extent And yet it is an operation which is of land should yield about four tons

The proportion of manure produced anything like scientific precision. A by stock, however, necessarily varies few facts, which have been collected with the quantity and quality of the with much laborious accuracy, will food upon which the animals are fed. perhaps therefore assist the young In an experiment made at the Cavalry depot at Maidstone, a horse consumed in a week-cf oats 70lbs, hay 84 the farm yard, as I have in another lbs, straw 56lbs-210lbs. He drank place had occasion to remark, is com- within this time 27 gallons of water. pounded of a mixture of animal and The weight of the dung and litter pro-vegetable substances, chiefly of the duced was 3274lbs. In another experiment on a large sized Yorkshire mixed with the faces and urine of cat- milch cow. she consumed in 24 hours -of brewer's grains 81lbs, raw poof these different substances does not tatoes 30lbs, meadow hay 15lbs-125 lbs, and during that period she drank two pailfuls of water. The urine was thing added to the bolk of the dung; on the contrary, it causes a coosidera-ter of any kind. The weight of the ble loss manure produced equal to the amount When fed on another day with raw potatoes 170lbs, hay 28lbs-198lbs, says Dr. Sprengel, 'we weigh the she pronuced under the same circumstances 73lbs solid manure.) - British Husbandry.) Taking, therefore, the average produce to be equal to 60lbs of the latter considerably less than that per day, it follows that a cow will of the former.' Block, who has late- make about 9 tons of solid manure in

Few operations appear at first sight 100 lbs. of rye straw yielded only 43 so simple as the manufacture and colhs, of dried excrement (liquid and lection of farm yard manure, and yet solid) there are several errors into which the cultivator is very likely to fall without he is ever vigilant to avoid them. Mr Francis Blakie, in his valuable tract tion. Thus, to give one or two in-stances, 100 lbs. of potatoes gave only manure, alludes to several of these: he highly disapproves of the practice By of excrement. Journal Royal ferent descriptions of animals, in se-' of keeping the dung arising from difplying them to the land without intermixture. It is customary,' he oband earthy matters. 100 parts of these cattle in yards by themselves, and the cattle in yards by themselves, and the manure thus procured is of good quality, because the excrement of such or two men should remain constantly cattle is richer than that of lean ones. at the heaps while the teams are at Fattening cattle are fed with oil cake work, on purpose to spread and level food thrown about the yard, increases as they come with their loads. If the The urine of the cow contains va-tracts pigs to the yard. These rout rious salts, such as phosphate of lime, the straw and dung about in search of the music, such as phosphate of lime, the straw and dung about in search of grains of corn, bits of Swedish turnip sulphate and carbonate of potash, car-bonate of bonate of ammonia, and urea, but by manure in the yard becomes more infar the largest portion is water, of timately mixed, and is proportionably timately mixed, and is proportionably which it contains about 65 per cent. That part of the horse, however, con-tains a still t tains a still larger proportion of water; for obvious reasons be shifted frequenta specimen analyzed by M. M. Four-croy and Vauquelin, yielded 94 per cent; that of the pig contains 92 per grass 96 per specimen analyzed by M. M. Four-that of the pig contains 92 per grass 96 per grass 96 per cent; and human urine there accumulates in large heaps. It heaps are raised as high as convenient there accumulates in large heaps. It heaps are raised as high as convenient there accumulates in large heaps. affords nearly as much, some that was is sometimes spread a little about, but far the horses to draw up, several loads should be shot up at the end of the examined by M. Berzelius, the great more generally not at all, unless when should be shot up at the end of the more generally not at all, unless when should be shot up at the end of the more generally not at all, unless when should be shot up at the end of the Swedish chemist, yielded 93 per cent The fæces of crule 1 and egress, or perhaps to allow up to the square of the centre; the gress and egress, or perhaps to allow up to the square of the centre; the spirit of salt [muriatic acid] and held over the dunghill, will pretty accurate. The fæces of cattle also contain a the water to drain away from the sta- whole heap should then be complete- over the dunghill, will pretty accurate-

heaps, very soon ferments and heats to an excess, and the centre of the heap is charred or burned to a dry white substance. Dung in this state loses from 50 to 75 per cent of its value. The diligeut and attentive farmer will guard against such profligate wate of property, by never allowing the dung to accumulate in any considerable quantity at the stable doors. The dung from the fatting hog sties, should also be carted and spread about the store cattle yard in the same manner as the horse dung.'- Blakie on Farm Yard Dung.

'Some theorists,' he adds in another place, ' recommend the yards to be so concave as almost to amount to a well shape, giving as a reeson in support of thhir opinion, that the virtues of dung can only be preserved by being saturated in urine, or some other moisture.' Others, again, assert that dung yards should be formed convex, and assign as their reason that farm yard dung should be kept dry. Practical experience points out that a medium between these two extremes is the best; and a yard a little hollowed is the most common shape.

When the dung is sufficiently prepared to be ready to be carted to the compost heap, considerable attention is necessary in its removal and mixture. These observations had not escaped Blakie: he tells us, in his subsequent page of his essay, "When it is found necessary to empty the dung yards early in the season, I recom-mend that preparation should be made in the usual way for the reception of the dung heaps in the intended turnip fields, by collecting large heaps of clay, marl, or such other materials .--The bottoms of the heaps should not, however, be laid above six or eight inches thick, with the earthy material, and a good quantity of it should be placed in rows, on each side of the bottoms, marked out. The dung should then be drawn out of the yards, and placed upon the bottoms, but not in the usual way of throwing it up loosely, to cause fermentation; on the con rary, by drawing the carts with their loads upon the heaps, for the purpose of compressing the dung, and thereby retarding fermentation. One dung has not been previously mixed in the yards, it should be so in drawing to the heaps, by taking up a few loads from one yard, and then a few from another alternately-and even from the same yard the loads of dung should be taken from different parts. alternately-for the dung is not of equal quality, nor made with the same

ly covered with the marl and clay, or the soil previously collected in rows by the side of the heaps, so as effectually to enclose the dong heaps in crusts; and they are thenceforth denominated pies. In these the dung will be preserved in a very perfect state, with little or no fermentation, and without loss by exhalation or evaporation

The pies, within ten days or a fortnight of the time the compost is wanted for the turnip land, should be care-fully turned over, and the crust, top, bottom and sides, intimately mixed up with the dung. When the turning is completed, again coat the heaps over with the natural soil around the heaps; the pies will then undergo a gentle fermentation; the earth intermixed with, and covering the dung, will absorb the juices and gaseous matters produced, and the compost comes out in a fine state of preparation for using on the turnip lands.

When the dung is taken out of the yards late in the spring, or only a short time before it is required for the turnip ground, the preparation should be somewhat different, because of the compost heaps having less time to incorporate. Thus the dung should not be carted upon the heaps to compress them, and prevent fermentation as in winter; on the contrary, the dung should be thrown up lightly with the fork upon the bottoms, and the side heaps of earth mixed intimately along with the dung. Turf turned up for a year preceding on wastes, by the side roads, makes excellent pie meat. Farmer's Encyclopædia.

There is no doubt of the advantages of the plan of forming layers under, and of covering compost heaps with earth in the way described by Mr. Blakie; for this mode, not only is the fermentation of the dung retarded, but the earth itself is enriched, all the grub and other insects are destroyed, and the seeds of weeds, which commonly abound in the soil, are stimulated into life and destroyed. This result is produced chiefly by the effect of the gases of putrefaction and the carbonate of ammonia, which, generated in the dung, is volatized by the heat .- To prevent the escape of this, it is a good plan to mix the earth with gypsum (sulphate of lime) in powder, for, by this means, if any carbonate of ammonia is escaping through the soil, corn, Swedish turnips, and other rich the dung regularly, so as to render the it is decomposed by the sulphate of food, and the refuse and waste of such ascent easy for the succeeding teams lime, and sulphate of ammonia is formed; this latter salt, not being volatized by heat, remains in the soil, and, when afterwards spread over the fields, it is decomposed, and its constituents become the food of the grows ing crop. It is very desirable that the farmer should have some ready means of ascertaining when the dung hill is fermenting to an injurious extent, and it fortunately happens that there are one or two easy experiments by which this can be easily determined. If a thermometer, when placed in a dung hill, does does not rise above 100 deg. there is little danger of too much gaseous matter being evolved; if a