of remarkably in the quantity of potash they hold. The ashes a touchwood from the yellow Birch are mostly earliangte of ish; those of one of apparently the same species from the ch contain very little. Before the decomposition of vege-Mix as performed in the laboratory of nature, can be well examik the agency of the Fungi must be taken into consideration; ware they the only agents, many insects assist them, of which se feed upon the Fungi. We have Tables of the quantity of timent contained in various kinds of grasses and other food. here would be very useful were they founded on certain data. ethink they are not. They should be formed by farmers rather a Chomists. The trial should be made, not in a laboratory, s in the atomachs of the animals. Sir Humphrey Davy acested Timothy grass most valuable when nearly ripe; it would stably be found so for horses, but much better for cows before beers. According to Leibig a large proportion of our bread stally uscless, for he thinks that starch gum and sugar will not mmuscular fibre, or any part of an animal except fat. The h secording to his theory, should have become a feeble race ded with fat, for Potatoes being chiefly starch, should have med very little muscular fibre. Many millions hesides the Irish e live mostly upon potatoes, yet grow to the ordinary size, and nstrong as their fathers were. The African Negro, while kating gum for five or six weeks, lives upon it, and gains flesh; be is then in constant exercise, his muscles certainly are suped with what they lose by constant wear. Not to dwell longer on this strange theory, we would simply ask, Ilas any farmer rfound an article of food by which an animal can be fattened bout at the same time supporting his strength? We desire twe may not be misunderstood as wishing to discourage the likation of Chemistry to Agriculture. Far from it. Much tis useful has been discovered, and much more we confidently swill be. But we do wish that in publishing these discoveries popular form, such language may be used, that the uninitiated be able to distinguish between demonstrated facts, and ries formed by reasoning from, perhaps, insufficient data. lloyal Highland Agricultural Society have caused some ful experiments to be tried upon feeding, and many experiments eleen made by others to ascertain the value of different kinds polfur farming stock, some of which furnish useful informa-, but far the greater part have not been conducted in such a as to prove anything But the person who can afford the to attend to an experiment of this kind will certainly confer bligation upon his brother farmers by publishing it, for it is by a great number of experiments that we can get a correct eofthe relative value of different kinds of food. We would pgly recommend experiments to ascertain the proper senson for ing hay, as we believe that it is generally cut too late. Sey years ago, farmers on Connecticut River were accustomed to part of their wheat before it was fully ripe, in order to get rofsuperior quality for their pastry, but it was supposed that must be a loss in the quantity. It appears now, from Mr. nam's experiments, that the unripe wheat gives not only the but the most flour; the last process of ripening being only an ase of bran at the expense of the flour. By reasoning, a y was formed, that boiled oats must be more putritive to than raw; but the experiments directed by the Royal land Society, have proved that the reverse is the fact. y was founded upon insufficient data; the powers of the ch of the horse were not known. Experience is the only foundation for a correct theory. Much labour is expended in use and compost. Land has been often injured for some years by

cooking potatoes for swine. An experiment frield in the States. seems to prove that they are better in a raw state. This extlette ment ought to be repeated by several persons, for if this result is confirmed, it will effect a great saving with those who have been used to cook their potatoes.

The experiments that lead to useful discoveries, are often unprofitable to those that make them, but we have all received much useful information from those who preceded us, and it will cancel a part of our debt, if we make an addition to the stock of human, knowledge, however small it may be, for millions are composed of units. Knowledge is the most valuable inheritance we can leave to our descendants.

MANURES.

spine and districted paints These may be ranged in two classes, one, comprehending, that dung of horses and cattle, rotted grass and, and decayad appare tables of every kind that grow on rich land, may be applied to the land in any quantity without injuring the soil, although, it is possible to rain a crop by over manuring; the other gomprising lime,, sea plants, and many saline substances, to which mamay add, firsh, and fish, if applied in too large quantities, or too frequently, will, injure the soil, and in some cases this injury: is aptorecorared from. for a number of years. t cent from partitions, n

Kelp and Rockweed appear to change, when decaying, mostly into a gateous or vapoury state, leaving very little visible bear mainder. While decaying, this vapour is a powerful manure; but it cannot be confined by a covering of earth: We have in the Spring, made a heap with about twenty loads of Rockweed, and the same quantity of soil from a pasture. 'At the end-of three weeks, when it had become hot, it was turned, for the purpose of cutting the sed finer, and used for potatoes, producing a crop equal in quantity to what would have been produced from stable manufer but of inferior quality. We have also, in the fally-made al ximilar heap, with 100 loads of Rockweed and 100 loads of Soder is hested and did not freeze in winter. When turned.in.the.Surjog.the Rickweed had disappeared and the sod had becomagune, rationia it had the strong smell of seamud, (Sulphursted, Ligdrogen,) and appeared to the eye like good manure, but, the, festilizing, vapour had evaporated. Twenty loads of freshight, Packweed, usedias soon as it began to decay, produced more than the minde hean almost

Flesh and Fish are, while decaying, powerful-mamuros, busif allowed to decay mixed with earth, the most valuable partirdissinated. We have read indeed, of twenty-loads of manure from a dead horse, but never were able to learn the art of dising the volutile effluvia from decaying animal substances: "At pound of flesh will, it is believed, produce as good a hilbiof patatodrassishedfull of dung. When the first settlers of Now England platful their first crop of Indian Corn, they were directed by an Antiantto make a Weir for catching Shad, and to, put a Shad ingast hill of Corn. We recollect, that in years long, byggne, it, was, chatquary with boys who were hoeing Corn, if they, killed a hlack snake pr, an adder, to coil it round a hill of Corn and coxerif with earth a the leaves of the corn in a short time acquired anvery, dark, green solar. grew very rapidly, and generally produced anacques much as the aljoining hills. Fish Gibs in a heap of manurquilose, most of their value. They should be put into the ground with the stop, or applied while growing, if possible, but it introcured in alle fall should be prevented as much as possible from decaying by mixing with peat earth placed where the sup with not shing appear it. Manures of this kind should be used alternately with stable-man-