## Manure comrost.

Masure Is virtually the farmer's capital, the bank, if wo may lo indulged in the expression, upon which ho can alone draw for theso important and essentialaccommodations, without which his inllustry and cconomy in other matters will be of little or mo avail. Thero 12 not a farmer almot anywhew whose resources in this particulag age mot amply abundant, and whone farmereht mot, in a short time, bo brought in almist, auy degreo of productiveness tho oimet could reasonably desire. Nature has prondel, by a wise cconomy, that nothng which hais onco been inspirted with tho energizing, ilen. tifying principles of life, shall bo worthless in tho great work of perpetuating and nourishing its kind. But it is not simply to ths animal and veretatlo kinglums, that the farmer is to lowh fur the means of enriching his soil. The varivus mineral substances embedred in, and constituting to a certain extent, the surface of the suil upon which we tread, are enducd with certan dstinctive and emandatury proporties which render them efficient assistants in the labour of improving and enriching our fiolds. Fiven the hard and compract substanco of fius, is capable of yieldag, upon a.ces. usontron, a principlo essentan to the growih and nu:cument of plants; while tho strums mineral substances of our comm in h lis aniderdens, are c.lyable, when cuanan, ind in pruper relative actions, either of wetght we measure, of evolving principles ant only highly beneficial to tho health of plante, but indispensably necesiary to their successful divelopment and growth. In the formation of conppost manure, one thing, however, is indispensable, and this is, that we attend strictly to the nature and constitutional character of the soil to which it is to be applied. If it be of a clayey or argillacious texture, the basis of the com. post intended for its amelioration, should consist principally of saud. But if, on the contrary, it be of a sandy or cillious character, the compost should be mostly of clay. Soils that are naturally humid, should have such alterants applied, and in such quantities, as will bring them to a proper consistency; while those that are arid and liable to injury from a too rapid descent or evaporation of water, must be modified by the application of such remedial agents, as will tend to confer uncfuosity, and prevent the possibitity of injury from such a cause.

The most tenacious clays, and the most barren sands, may, by the applica. tion of such materials as tend to modify their obvious defects, be made wonderfully productive.-Mainc Cultirator.
"How scldom it happens," said one friend to another, "that we find editors who are bred to the business." "Very," replied the other, "and bavo you not remarked how seldom the business is bread to editors."
on mineral and inorganic ma-

## Rx Profensor Cunres Sprengel.

Ashes of Sap-loilere.-Formerly all aslies of soap-boilers coneisted of extracted wood-anlies and lime, tho latter cither calutio or combined with carbonic achl. Thoy were, therefore, a superior manure, as they improved vegetation by the phos. plate of hme, magnesia, nnd pypxum, us well as the limo admixed. Since, however many soap.boilers used sodia in tead of wowl-ashes or comr.on salt, ashes are turned out which consist merely of eaus. tuc limo or its carbmate, whigh have, therefore, not so much valuo tas mere burist lime. Whoover, therefore, purchases ashes from soap-boilers has to attend to that.

If the ashes of soap-boilers consist of extracted workl-ashes and linee, they are amongst tho best mineral manures, stili a good marl is always preforable, as any one can see by counparing the chemical constituents of both.

How they act on the ingredients of the suil, does not require to bo again referred to in detail. It is also superlluous to speak on the matter in which thoy nourish plants, as everything jusi said of extracted ashes applies equally to these. It is the general opinion, that the ashes of soap-boilers act especially by the potash contained in then; but this is a mistako, because, although I have several times subjceted them to the chemical analysis, I have always found but small quantities of that substance. 100,000 parts of a snrt of suap-bouler's ashes, which experience had proved to be a superior manure, consisted of

35,000 parts of silica.
35,010 " lime, mustly in a caustic state.
2,530 " manganese.
1,5,10 " alumina.
1,707 "s oxide ofiron.
1,840 " oxide of manganese.
0,500 :s potash, cornbined with silica into a silicate.
0,180 " soda, ditto,
0,190 " sulphuricacid, combined
3,500 " phosphoric acid combin.
0,090 * common salt.
18,100 " carbonic acid, combined with lime and magnesia.
100,000 parts.
Of soap-boller's ashcs, 2000 to 3000 lbs. (in a dry state) are generally used on one acre of land. By 3000 lbs. the soil will obtain about 020 lbs. lime, 70 lbs. magnesia, 15 lbs . potash, 5 liss. soda, 12 lbs , gypsum, 230 lbs . phosphate of lime, and 3 lbs. common salt, by which it is to be seen, that they owe their manuring properties mostly to caustic and the carbonate of lime, to magnesia and phosphate of lime ; as their 15 lbs. potash, 12 lbs. gypsum, \&c, may produce a very incousiderable effect, the more so, as the
potash is also combinct with the silica into $\mu$ substance not soluble in water. Alter manuring uith wapobiler's ash. es, plants of the Clover trilng will grow best, but all other erope will to bencfited; and the fresher they are, the nobe effective, bs thoy then contain much of emustio lime, by which, especially, the carbonic humus, or tho organic matter in the soil are uffectel. and changed into humio acid. Soils which contain very little lime, will bo always best improved by them, and in this caso they will bo very useful, whether employed on fieldy or meadows. According to tho amount used, this effect will last from six to nine years; which, however, will be only the caso when tho soil is not defiecient in humua, and such other substances of which the avhes contain but a small quantity.

Soap-boiler's ashes aro strewn (like wood-ashes) either over tho crops already growing, for inetance Clovers, Lucerne, Grasses, \&c., or thoy aro harrowed in with the seed of the winter or summer crops, and they act partly like cxtracted ashes, and partly live caustic lime; they can be also used to great advantuge on new marshes.-Eng. Ag. Gaz.

## Break your Horses to acork without Btand

 crs.-We have always thought the "blinders" or "eye-winkers" on our harnesses which we work our horses in, were not a useless appendage, but oftentimes injurious. We consider them useless, becausa we cannot think or see any good they do. We never heard but one reason for using them, and that was given by a stage driver, and that was the following: "That off thill horse, you see, is a lazy dog, and needs the string pretty often. His mate is more free-now if he could seo me when I go to strike his mate, he would spring and take the whole load, and the off one would shirk out just the came." There is some reason in that, to be sure. We can't always have horses matched equally in teams, either as it regards tem. per or strength, andi, of course, once in awhile, it may work well to hide a free horse's cyes from the evil that is descending in the form of an angry driver's lash; but, as an offse to this, the lazy borse will also seo the blow coming, and pxobably will spring out of the way 200 , as well as the other, so that the power will be as cqually applied by them both. We think that many horses aro disposed to shy more, as it is ctlled, when their eyes are partially covored with blinders than when not. Horses may be trained to work without them, and colts should, by all means, be taught to do it. We think howes appear much bettor without than with them, especially if thay have a zood eye natually.-Maine Farmer.Agricultura is the art of raising crops; husbandry, the art of preserving and expending them.

