## MANURE COMPOST.

Maaure is virtually the farmer's capital, the bank, if we may be indulged in the expression, upon which he can alone Ashes of Soap-hoilers.—Formerly all draw for these important and essential ac-ashes of soap-hoilers consisted of extractcommodations, without which his inclus- ed wood-ashes and lime, the latter either try and economy in other matters will be caustic or combined with carbonic acid. of little or no avail. There is not a farmer almost anywhere whose resources in as they improved vegetation by the place. this particular are not amply abundant, phate of lime, magnesia, and gypsum, as acid. Soils which contain very little and whose farm might not, in a short time, well as the lime admixed. Since, howe-lime, will be always best improved by be brought to almost any degree of pro- ver many soap-boilers used soda instead them, and in this case they will be very degree. Nature has recorded by a wholes of them and in this case they will be very degree. Nature has recorded by a wholes of the second of the sec desire. Nature has provided, by a wise nurned out which consist merely of causeconomy, that nothing which has once the lime or its carbonate, which have, been inspirited with the energizing, identifying principles of life, shall be worth-bern in the great work of perpetuating and chases askes from soap-boilers has to atnourishing its kind. But it is not simply tend to that. to the animal and vegetable kingdoms, If the ashes of soap-boilers consist of that the farmer is to look for the means of extracted wood-ashes and line, they are enriching his soil. The various mineral amongst the best mineral manures, still a substances embedded in, and constituting good marl is always preferable, as any to a certain extent, the surface of the soil one can see by comparing the chemical with the seed of the winter or summer with the seed of the winter or summer upon which we tread, are enducd with constituents of both. bertain distinctive and emandatory proporties which render them efficient assistants in the labour of improving and enriching our fields. Even the hard and compact substance of finit, is capable of rish plants, as everything just said of exception of the said of exceptio yielding, upon dream resition, a principle tracted ashes applies equally to these.

Break your Horses to work without Bindessential to the growth and nutrinnent of It is the general opinion, that the ashes of ers.—We have always thought the "blind-plants; while the various mineral subscape scape boilers are especially by the potash ers" or "eye-winkers" on our harnesses. relative actions, either of weight or measure, of evolving principles not only highly beneficial to the health of plants, but indispensably necessary to their successful development and growth. In the formation of compost manure, one thing, consisted of 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 compost intended for its amelioration, should consist principally of sand. 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 unctuosity, and prevent the possibitity of injury from such a cause.

The most tenacious clays, and the most barren sands, may, by the application of such materials as tend to modify their obvious defects, be made wonderfully productive.—Maine Cultivator.

replied the other, "and bave you not reto editors."

## ON MINERAL AND INORGANIC MANURES.

By Professor Charles Sprengel.

35,000 parts of silica.

35,010	44	lime, mostly in a caustic
		state.
2,530	"	manganese.
1,5/10	44	alumina.
1,707	"	oxide of iron.
1,840	"	oxide of manganese.
0,500	**	potash, combined with
-		silica into a silicate.
0,180	"	soda, ditto,
0,190	"	sulphurie acid, combined
		with lime into gypsum.
3,500	"	phosphoric acid combin-
-		ed with lime.
0,090	23	common salt.
18,160	"	carbonic acid, combined

with lime and magnesia.

100,000 parts.

friend to another, "that we find editors ing properties mostly to caustic and the who are bred to the business." "Very," carbonate of lime, to magnesia and phosphate of lime; as their 15 lbs. potash, 12 marked how seldom the business is bread lbs. gypsum, &c., may produce a very husbandry, the art of preserving and exinconsiderable effect, the more so, as the pending them.

potash is also combined with the silica into a substance not soluble in water.

After manuring with soap-boiler's ashes, plants of the Clover tribe will grow best, but all other crops will be benefited; and the fresher they are, the more effective, as they then contain much of caustio lime, by which, especially, the carbonic humus, or the organic matter in the soil are affected, and changed into humic meadows. According to the amount used, this effect will last from six to nine years; which, however, will be only the case when the soil is not deficient in humus, and such other substances of which the ashes contain but a small quantity.

Soap-boiler's ashes are strewn (like wood-ashes) either over the crops already

stances of our common he has and gardens, contained in them; but this is a mistake, which we work our horses in, were not a are capable, when common hed in proper because, although I have several times useless appendage, but oftentimes injurioff thill horse, you see, is a lazy dog, and needs the string pretty often. is more free-now if he could see 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 temper or strength, and, of course, once in awhile, it may work well to hide a free horse's eyes from the evil that is descending in the form of an angry driver's lash; but, as an offse to this, the lazy horse will also see the blow coming, and probably will spring out of the way too, as well as the other, so that the power will be as equally applied by them both. We think that many horses are disposed to shy Of soap-boiler's ashes, 2000 to 3000 more, as it is called, when their eyes are lbs. (in a dry state) are generally used partially covered with blinders than when on one acre of land. By 3000 lbs. the not. Horses may be trained to work on one acre of land. By 3000 lbs. the not. Horses may be trained to work soil will obtain about 920 lbs. lime, 70 without them, and colts should, by all lbs. magnesia, 15 lbs. potash, 5 lbs. soda, means, be taught to do it. We think "How seldom it happens," said one "How seldom it happens," said one "The s

Agriculture is the art of raising crops;