pepotash and ammonia, but leaving the sodard lime, which are less important to the plant, the mercy of the rain. The discovery of the facts has thrown an entire new light on the chemistry of the soil, for they have shown that it must be studied not merely by itself, but include to the various substances with which homes in contact in the course of cultivation as to trace the influences which they mutual-perfect, and thus a subject already sufficiently complex has become more difficult and laborious that it was before.—Scottish Farmer.

The Spirit" in Ginger Beer.—As many progrance men are in the habit of drinking juger beer under the impression that they are in keeping the pledge," by abstairing from cholic liquor mixtures, it may perhaps be as rell to tell them the real truth, that all good juger beer contains a no able portion of spirit. The more the beer is "up," the more certain is it alcohol is present. It is well known that juger beer is made with sugar, ginger, &c.; withat it is "eet" to ferment before it is botted; now, it is during the fermentation of the gut that spirit is produced, and, to show its resece, it can be easily separated by distillation. In this this statement we do not wish to bias the project of any man, but merely to correct popular error—the belief that ginger beer is from spirit!—Septimus Piesse.

Whitewashing Shingles .- Fresh or caustic 'a applied during the heat of summer, and her the wood has become thoroughly dried, es the pores, and tends strongly to prevent ay. We have recently examined a board e, which had been whitewashed in successive is about 18 years ago. The boards were d and sound, and had not become covered hmose, as was the case with another fence , built at the same time. There is no doubt ta great advantage would result from whiteuting shingles before laying them. te on a former occasion, given some instances the durability thus imparted to them. A late ber of the Boston Cultivator gives some ilional examples. J. Mears of South Abingperformed the experiment in substance as ... We:-He procured a vat (a lime vat at a my does well,) and applied salt with a small aion of potash to the lime, and immersed the gles for four hours The wash was afterwards shed over the shingles when laid. This made ite proof roof on a blacksmith shop, now elevjears. Silas Brown, another correspondent ,<sup>125</sup> years ago, he dipped shingles into a "tettle of lime wash to which salt had been ્યા and the whole kept boiling. \_, es were dipped in all over at a time, long to soak them well, and then thrown to dry. In a short time all the shingles ... thus prepared. Although what are termed. shingles," they have now lasted 25 years,

"and may do so for years to come." Several experiments of a similiar character have been made since, with very successful results. Cultivator.

WHY YOU CURSE THE SEED STORFS .- DO YOU want to know why? "Certainly?" Well thep. let me tell you what has been often told you before :- You plant to deep! You don't believe i.? I do, and I know it. There are hundreds of western farmers who as conscientiously believe that they must plant their corn from four to six, and in some instances, eight inches below the surface, as they believe there is a Gon in Israel, or a McClellan to swear by. And you can't make them believe differently. know; they've tried it; and their experience proves them and their practice right, all "booklearned" farmers to the contrary notwithstand-And they despise "book-farmers" as bad as they hate gophers; and they kill all the

gophers they can find.

Why do they plant so deep? Because they think the soil is peculiar. And in that they are right; it is peculiar. But they have made it so by their manipulations. They plow it when it is wet, harrow it when it is dry, and it is cloddy and lumpy, and rough as a Down-East field of stone. Then when planting comes they must get down to moist earth, or it will not germinate. They have to get down deep to do it ler is not known to the majority of farmers in corn culture. It ought to be. On such land as I have described, it ought to be used before the corn is planted, and again afterward. But I speak of the practice in core planting show to the more clearly where the fault is in the case of smaller seeds, such as are purchased at the seed stors, planted in the gardens, and never grow at all! Why, only yesterday, I heard a lady say that she put her lettuce seed in three inches deep-down where the ground was moist-and it had not come up yet; and she was indignant! The seed stores were the matter, of coarse. "Y" know they do cheat so in seeds,' said she to per companion. How sweet, and innocent, and indignant, and disappointed she looked, poor woman! For she was really a splendid woman; but she had not learned to garden. And she confessed that she planted her peas nearer a foot than six inches deep; and her flower seeds which she had got all the way from the Hub of Creation, were equally well planted—and O, the seeds men !

It should be remembered that the season is backward, the ground wet and cold in most iccalities; and then the fate of the good woman's seeds will be apparent. So of other sensible people who undertake farming and gardening. They know little of the laws of production, and less of the mode of manipulating soil. The more completely pulverized the soil the deeper they plant. It would seem hardly necessary to say