Gypsum may be valuable agriculturally in furnishing lime for plant growth, as it is fairly soluble in water, but since in this form line is combined with sulphuric acid and is present in a neutral condition it follows that gypsum has no value for the treatment of soor or acid soils. For this purpose it cannot take the place of quicklime, shaked line, or mark or ground limetsone, which are essentially alkaline in char-

The two class agricultural functions of land plaster are its property of flogenlating clay and its effect or influence on the insoluble potash compounds, setting free this element in forms available for plant use. The first of these functions makes it valuable for the dressing of heavy clay loams, which it improves in tilth by rendering them less plustie, more open and friable; in a word, mellower and more ensily worked.

The Application of Lime Compounds.

Quicklime. In order to facilitate its uniform distribution over the soil, quickmae should be slaked. Place the lime in small heaps of about a bushel ea - at regular distances on the field to be treated. Pour a little water, about one-third the weight of the lime, so that the slaking may be gradual and a fine powder result, on each; cover the heap with an inch or two of moist soil and allow to remain for two or three weeks. when the lime will be thoroughly slaked and fall into a fine powder. Mix the slaked hime with a little soil and spread with a shovel, choosing preferably a damp day for the work.

Forty heaps of about 50 pounds or twenty-five heaps of 80 pounds each is an application of approximately one ton per aere.

Slaked Lime. This is in the form of a powder and may be most conveniently, pleasantly and uniformly spread by employing a lime spreader or fertilizer drill. It can, of course, be spread from a wagon box, but the operation is more or less disagreeable. If this method is adopted, the mixing of the slaked lime with a little fine soil is said to make the handling less unpleasant.

For these more eaustic forms—quicklime and slaked lime—autumn is probably the best season for application, spre ling on the ploughed land and immediately harrowing it in. The aim should be to incorporate the lime with the first three or four inches of soil. The tendency for all lime compounds is to sink to be washed down by the rain, and, therefore, they should never be ploughed under. It is better to make light applications frequently, say once un a retation if necessary, than large applications at longer intervals. It is well to err on the ide of too little than too much, especially if the organic conte of the soil vasunot o custantly enriched.

Ground limestone.—The esser' I points to be rem or in the purchase of this form are composition and degree of fineness. If a quiper prompt action is desired, a material 75 per cent of which passes through a sieve w. 100 meshes to the linear inch, will be found satisfactory. Coarser ground line - way, however, be successfully used—say 50 to 75 per cent passing through a 50 ieve—a d all through a 10-mesh sieve-if immediate and, in a sense, quick, de-

The application may be from two to ten tons per acand the acidity of the soil and the degree of fineness a and slaked lime, excess of ground limestone can do litter holds true of marl.

The application of ground limestone and marl offers special difficulty or unplensa, tress; a spreader may be used or the material distriled by a shovel from a wagon. They may be applied at any season of the year and specially snited, as has been stated, for light loams and soils generally that are point organic matter. As with lime they should be harrowed in, not ploughed under in the case of meadows or pastures, merely spread on the surface.

n is not important. g to the character al. Unlike quick arm and the same