Wood ashes which alway most on of pants. main a considerable portion of potash, are seemed highly as a manure.

2ad. Sill. - I'ms is well known as the carecaronnic acid is easily separated. The mi murs.

3rd. Lune .- This substance is found in the sies of all plants. It exists in nature, combine t mb caroonic acid, in all limestone, which is sace denominated a carbonate of lime arbonic acid is expelled in a gaseous state by the action of heat, in the process of burning me.

4th. Magnesia - There is a limestone which fields this substance in different proportions When burnt into ime, it has been found by exprience to be very detrimen al to e rtain soi s, particularly when the lime contained a large dose oi magnesia.

5th. Silica - This is a substance which forms the basis of sand, flint or quartz. A small poru a enters the plant in a fluid state, which serves to give strength and smoothness to the stem This earth occurs in large quantities in all lighporous solis.

6th. Alumina, enters largely into all the varieues of cays, and renders the soil sufficiently adbesive to support firmly the roots of plants.

7th. Oxide of Iron.-The rust of iron is a familiar sample of this substance. It is iron combined with oxygen. When it exists in soils in large quantity, it is very prejudicial to vegetation.

plants in sorts, but in small quantities.

9th. Sulphur is found more or less in most venience, even in the severest weather. the arts.

10th. Phosphorus is a singular substance, havthe common temperature of the air. It has a strong attinuty for oxygen, forming phosphoric that of the latter .- Journal of Health. scid, which is found in small quantities in the ash of plants. It likewise unites with potash, soda, lime, &c., and forms a large class of phosphates, which perform an important part in the of vegetation.

11th. Chlorine is a very sufficienting gas, or air, of a greenish colour. It is a powerful agent in the process of oleac ing, and is very variable for disinfecting purposes. It combines with the mate of soda, and by boding it with quick lime, metallic bases of po ash, soda, lime, &c., — aiming the chlorides of those substances. It is a rerates of potasa and soda are very powerful markable fact that this suffice iting and most disagreeable gis, when combined with sodium, (a s ngular metalic substance, having so s rong an a finny for oxyge ras to ignite upon water,) forms that most in cessiry, mild, and ag ecame condiment common salt, or entoride of sodium.

We have now taken a general view of the various substances that eater into the composition, but of the organic and morganic parts of The important question of anunais and plants. the analysis of the ashes of the cultivated plants. is undergoing the most vigorous investigation by several of the most emment chemis in Barain and on the continent of Europe. The Royal Agricultural Society of England, officed some time since a liberal assistance to these investigations; and we are informed that Professor Way has atready made public some interesting and important results. We feel assured, that he researches which are now being made in this direction, will, ere long, throw much light on whit are now confessedly dark and unsates actory points in practical agriculture. And, induce what may we not hope in reference to the advancement of our ancient and important art, from the auspicious union of science with practice?

Cold Bedrooms .- A person accustomed to un-8th. Oxide of Manganese is seldom found in dress in a room without a fire, and to seek repose in a cold bed, will not experience the least inconanimal and vegetable substances. By uniting natural heat of his body will very speedily renwith a definite portion of oxygen, it forms the der him even more comfortably warm t. an the well known substance called sulphuric acid. This individual who sleeps in a heated apartment, and latter substance, by uniting with other bodies is in a bed thus artificially warmed, and who will of great importance in agriculture, as well as in be extremely liable to a sensation of chilliness as soon as the artificial heat is dissipated. But this is not all the constitution of the former will be ing a strong tendency to ignite when exposed to rendered more robust, and far less susceptible to the influence of atmospherical vicissitudes than

A Fine Polish for Marble .- Common wheatstraw, when burnt to ashes, is found to contain a a portion of flinty earth in the form of a most exformation of productive soils, and in t e economy quisite powder, and may be used to advantage in giving the last polish to marble.