

the whole was then ploughed eight inches deep, with a strong three-horse Dutch plough: last April, it was well harrowed, and cross-ploughed, four inches deep, with a light two-horse plough, leaving the sod at the bottom. The field was sowed with spring barley; at harvest, the difference of the crop was astonishingly great in favour of the part where the Gypsum had been put, two years before. This ground is now under wheat and winter-barley, which have a promising appearance: the rotted sod being turned up and mixed with the soil, affords a strong nourishment to the present crop.

5. I put a quantity of Gypsum, three years ago, on several small patches of tough sod; it produced a difference in the strength of the vegetation, which is still observable.—From the above recited experiments it appears—

1st. That there is no difference between the European and American Gypsum.

2d. That Gypsum acts as an immediate manure to grass, and afterwards in an equal degree to grain.

3d. That one dressing will continue in force several succeeding crops.

Gypsum not producing any remarkable beneficial effects, when used as a top dressing to grain, may arise from two causes; first, from the small quantity made use of, which is lost in the rough ground; and secondly, from the short time of its application. It has been found of advantage to Indian corn, but in this case, it is absolutely necessary to apply it immediately to the corn, as it appears above ground, and that in a considerable quantity—I have put it on grass ground every month in the year, except during the severity of winter, and have found, that early in April is preferable to any other season; at which time, the grass just shooting, the small particles of the gypsum are detained about the roots, and prevented from washing away. On stiff clay soils, it will produce an increase of vegetation, but not sufficient to pay the expense of the manure.

It may be difficult to point out the origin of Gypsum, or to ascertain clearly the principle, on which its nutritive quality of vegetables