100 grains of harley meal give, on	burning
ins of ash. 100 grains of this ash co	ntains, o
Silica,	29.67
Phosphoric acid,	36.80
Supheric acid,	0 16
Chlorine,	0.15
Per-oxide Iron,	0.83
Lime	3.23
Magnesia,	430
Potash,	16 00
Soda,	8.00
_	

100.00

is analysis was made by Prof. Thompson szow. German chemists have found someless than 3 per cent. of ash in 100 parts of stley. In a good soil adapted to the plant, untity found by Dr. T. may be regarded as crage. Supposing that all the straw was reto the soil either directly, or in the shape of c, 2000 lbs. of barley, after it was thoroughly at 212° taken from an acre, (equivalent to 50 bushels,) would remove from the earth 60 its most valuable minerals. Among these be 17.80 lbs. of soluble silica or flint, which mainly in the hull of barley. The most ble ear hy element in the eeed of this grain, all others, is phosphoric acid. Of this, 2000 barley remove from the soil 22 lbs. fel to swine, horses, or other domestic s, and all their solid and liquid mannre be back on the field that produced the crop, the will be made richer for the operation. This accrues not from the mistaken idea that all full the matter removed in a crop, can be d back in the manure, which the crop will when sed to animals. All animals literally beir food in their warmed bodies, the gases papor formed by the combustion escaping the lungs in expired air. 100 lbs. of dry all make less than 50 lbs. of dry dung and How, then, can the removal of 100 barley, corn, or wheat, from a piece of ground, bereturn of only 40 lbs. of the same matter This question we greatly desire the soil? very child, whether male or female, 14 years hould be able to answer correctly. I and mortified at our poor success in perthose that till the earth that schools to teach as of nature which govern the growth of ceind other cultivated plants, ought to be estaband supported for the benefit of agriculture. et that pass; while we ask again why it is farmer may take 1000 lbs. of barley from a and by restoring only ane-tenth of the same, his land none the poorer by the operation? will be reco.lected that 1000 lbs. of this grain in at most but 30 lbs. of uncombustible earthy By restoring these and 70 lbs. of organfarbon, oxygen, hydrogen, and nitrogen, the husbandman gives back to the soil as much furnished towards the 1000 lbs. of barley. ow is the land made richer when we restore particle more soluble flint, phosphorous, suliron, lime, magnesia, soda, potash, chlorine,

Some knowledge of agricultural geology is indispensable to the clear understanding of this interesting subject. Consider for a moment the source from which all soils derive their lime, potash, phosphorus, sulphur, and other earthy elements of plants in 100 lbs. of the ash of barley there are 37 lbs. of phosphoric acid, 24 lbs. of potash and soda, beside 7½ lbs. of lime and magnesia. No wonder that this crop requires good land to yield a large amount of seed.

It is the constant abrasion, comminution, and solution of the small particles of rocks, which lie exposed to the meteoric influences of frost, heat, light, electricity, water, oxygen, carbonic and nitric acids' from the air, that renovate soils while at rest, when partially exhausted by the removal of crops. ence con render the practical former most valuable aid in hastening the natural process for bringing back virgin fertility to a worn out field the practical man too often scorns the proffered light of science. He ridicules the idea of having his sons study the properities and source of the constituent elements, which God has appointed to make the bread, the meat, and the clothing of all rational beings .- We rejoice however in the strong faith that this deep prejudice against the study of the natur. I sciences which have so intimate a connection with rural industry, cannot last always. Our children's if not our own offspring, will see the end of it.

As a bushel of barley can be grown on some soils about as easily as a bushel of oars, who would not give a trific to know by actual experiments the relative value of 200 lbs. of barley meal and a like weight of corn meal, for making pork, beef and mutton? By making meal into well cocked pudding, and mixing it with boiled or stermed potatoes, a little slop from the kitchen and dairy, pork can be made at no great expense, while the dung and urine from the pig sty will make great barley next year. We are much infavor of that system of husbandry which consumes the largest amount of the products of the farm at home, and carefully saves, and uses to the best advantage the manure thus made. have often help to harvest from 45 to 50 bushels of barley on an acre, and have seen it much used in fattening hogs. But its precise value for feeding has never been determined.-Gen. Fur.

Green Peas for Winter Use.—The lovers of green peas will be pleased to learn that they can be preserved for winter use, by simply gathering them at the proper season for using them green, shelling them and drying them in the shade, and when well cured and perfectly dry, packing them away for use.

When required for use, they should first be immersed in warm water for ten or twelve hours, which will render them as tender and delicious succulent as when taken from the vines. The husbandman gives back to the soil as much furnished towards the 1000 lbs. of barley. In the soil as much have the tender and delicious succulent as when taken from the vines. The hest method of preserving them, after they have been thoroughly cured by the above process, is to put them into close jars or bottles. In this way, not only green peas' but green beans and green corn may be had the year round.—Far. & Mesh.