through decomposition. The gradual decay of substances above or below ground is certain; the formation of those that may be useful in promoting the growth of vegetables is a very different question. Fermentation is a The use of green crops as manures will not fail to consensible internal motion of the constituent particles of a stitute very foul fainning; and though a successful thiid, moist, or mixed compound body, by which they are isolated case may occur, an extension of the practice removed from their present situation and combination, will not be expected. The green crops may be harand are again joined together in a new or different order and rolled before ploughing, which will render and arrangement, forning new compounds with very them more convenient for being covered, and a compost different qualities from the original body or substance, of lime and earth has been added, which will also aid the it results from the combined action of air, heat, and covering of them in the land, and tend to promote the moisture; and the first agent is oxygen, afforded either putrefaction. It may be supposed, that, in the courtries by the atmosphere, or by the decomposition of the where the practice is said to be so very beneficial, the included water; oxygen gas being absorbed, and caloric soils may be more loose and friable, the vegetation more separated during the process; carbonic acid is one of the rapid and luxuriant, and the plants more juicy and sucresults, and fermentation is the natural process for reducing vegetables to a simple state of combination. The first change is the vinous or saccharine fermentation, the conversion of the insipid matter of stems and very useful in some countries, and inapplicable in seeds into a saccharine substance, in which process the others. The plants may be ploughed under when in full presence of water and succharum are indispensable, and blossom, and, if possible, in moist warm weather; and some other things must be added. The gramineous and the latter circumstance may constitute an advantage in herbaccous plants are generally stored with saccharum, favour of the custom in the warm countries where it and the acetous fermentation follows, which is succeeded prevails.—Scottish Agricultural Journal. by the putrid, or the last stage of the process. This last stage is always certain, though the regular gradation of the others may be interrupted. During putrefaction, the others may be interrupted. During putrelaction, vegetables emit ammonia, phosphoretted hydrogen gas, and constantly carbonic acri gas, and hydrogen gas, inpregnated with unknown vegetable matters. The colour changes to a dark brown; it swells, and becomes; affection is an undue enlargement of little bags or sacs colour changes to a dark brown; it swells, and becomes heated, and is reduced to an earthy mass. The con-which are situated in the parts named. By the strainstituents enter into new combinations; the hydrogen ing of the tendons these sacs become injured, and some-unites with the oxygen, and is either volatilized in times take on inflammation, and become hard. Youatt water, or separated in a gaseous form, and carries with says, "The farriers used to suppose that they contained it a portion of earlier and the carries with says," water, or separated in a gaseous form, and carries with the aportion of carbon. A part of this principle unites wind; hence their name wind-galls; and hence the with the azote in those plants that contain it; a part practice of opening them, by which dreadful inflammaremains in the partial mass, giving it odour and colour; too has often been produced, and many a valuable remains in the puttid mass, giving it odour and colour; tion has often been produced, and many remains in the puttid mass, giving it odour and colour; thorse destroyed." As to treatment, the author just reapportion of carbon remains in the magma, and a part with the oxygen. ferred to directs, "If the tumors are numerous and part with the oxygen. forming with the latter carbonic acid. The brown mass, or earthy residue, contains the primitive earths, metals. oils and salts, which are found in vegetables, forms regetable mould, and constitutes the principal means by which the earth receives back the principles it loses by the support it affords to vegetable life. In this process, air, heat and moisture are indispensable, and a quantity of the substances laid together. Green and dry vegetables ploughed into the land will lie in too small a hardly worken. A poster is a more tables ploughed into the land will lie in too small a hardly worken. A poster is a more tables ploughed into the land will lie in too small a hardly worken. A poster is a more table ploughed into the land will lie in too small a hardly worken. A poster is a more table ploughed into the land will lie in too small a hardly worken. quantity to generate heat; air and moisture will be large and firing still more certain, if the tumors be sufficiently nearly excluded, and no active fermentation will happen large and annoying to justify our having recourse to afford æriform matters in the soil, as may be daily measures so severe. In bad cases, the cautery is the matter of the course of the cours seen in the case of stubble and other dry substances, only cure, for it win not only enect the swelling. ble, but activity for present benefit is wanting, unless an incipient fermentation has been effected before the application to break the texture by a disintegration of the fibrous texture. It may very justly be reckoned a wasteful practice to apply for manuring, substances that can be used as food for animals, and thus effect a double purpose. The second crops of clover and tares have been ploughed under for manure, and in that case the first crops must be cut early to allow the second, crop to attain a bulk of plants for the intended purpose.

If any of these succulent plants be used as a manure for wheat, the bastard fallowing will dissipate the enriching matter, and if it be covered with the last furrow, the land must be in an unwrought state, and it can only be reckoned a catch crop. The only plausible case of application is on places that have failed to receive the due portion of farm-yard manure; but the season means of improving saudy plain lands. Plaster is use-being occupied in bringing forward a crop for the benefit ful in situations where it will set. This can be ascerof the land as dung, wholly excludes any effectual tained by trial.

producing a soluble matter, and also mould, by con-| working of the soil, and in any case such unmanured

WIND-GALLS .- Horses which are subjected to hard large, and seem to impede the motion of the limb, they may be attacked first by bandage. The roller should be of flannel, and soft pads on each side of the enlargements, and bound down tightly upon them. The bandage may be wetted with a lotion composed of three parts vinegar to one of spirits of wine. The wind-gall will often diminish or disappear by this treatment, but will too frequently return when the horse is again hardly worked. A blister is a more effectual remedy, but, by contracting the skin, will act as a permanent bandage, and therefore prevent the reappearance of the tumor .- . American Farmer.

POTATOES IN INDIA .- The potatoes from Bombay. Darjeeling, the Cherra Poonjee seed, were wonderfully fine and healthy, and to enable the public to form some idea of the state of perfection this grand and staple veretable has been brought to, in this district, it is here recorded that 40 potatoes out of one garden weighed 20lbs. The skin of all delicately white and fine, and every potatoe free from knots.

SANDY PLAINS.-Clay, ashes, decomposed or rotten manure, with clover, it is said, has proved to be the best