## FARN AND FIELD.

## BONES AND ASHES.

A [correspondent in the Country Genteman, asking about the valine of ground bono compared with that which has been reduced by the ues of wood sshos, gives some of his porsonal exporienco in the preparation and use of phosphates that is worth reading and acting apon. Ho says :
"After an experienco of sevoral yoars in softoning bones by the use of ashes, I think that eaoh farmor can easily prepare an amount sufficiont for his own farm wherever the bones and ashos oan be reasonably purchased. Bones are worth $\$ 8$ to $\$ 10$ per ton, and ashes $\$ 15$ per hundred bushels, in this country, and the cost of preparing thom need only be a trifile.
"I firat began softening them by placing them in alternato layers with ashos in a large kettle, and boiling moderately for two or three days. Whon softened so that a stick could be easily thrust through the mass, they were boiled nearly dry, and rere shovelled into a plank bos aud ground under a hoe in the same manner that mortar is mixed for plastoring. If not dry onough to handle, a foriv dry ashes were added. This method roquires some labour, as the fire needs attention several times each dag. If the kettle is set in a brick or stone arch, a cord of wood mill be suff. cient for two or three tons of bones. The large bones should be brosen so that all may soften together. Three bushels of ashes are enough for one hundred pounds of bones.
"Aftor preparing in the above manner what I wanted for use on my corn and potatoes in the Spring of 1881. I had a half ton of bones left through the Summer. In October these were placed in a plank bos with ashes, and all the water added that the ashes would rotain without leaching. The box was left uncovered and tho rain kept the ashes damp, but was not enough to leach then. In May following the bones were softened so that a shovel could be easily passed through them, and nearly all were readily paiverised and made fit for use. The labour and oxpense is much less in this way than by the use of the kettle and fire. I have since used a bin made by laging a fioor of two inoh planks on joists six or oight inches from the ground. The floor is trelve by twelve feet, and the sides of tho boards five feet high, kept in place by strong stakes driven into the ground. This is large enough to hold four hundred bushels of askes and foar tons of bones, which is as much as I care to ube in one year. So tar it has not been necessary to cover the bin, as the rain does not leach through.
"I have used this mixiure of bone and ashes at the rate of twenty-five bushels to the acre on corn arid potatoes with good results. A small handful is applied to eaoh hill after planting, using care to scaiter it over a space a foot or so in diameter. I have used some of the best brands of superphosphate for several years, but think the home preparation of bone and ashes is better for potatoes."

## sUCCESS IN LIFE.

Without unremitting labour, success in lifo, whatever our occupation, is impossible. A fortune is not made without toil, and mones unearned comes to few. The habitual loiterer never brings anything to pass. The young men whom you $s 00$ lounging about waiting for the weather to change before they go to work, break down before thoy begin-get stack before thoy start. Ability and willingness to labour are the tmo great conditions of enccess. It is useless to work an eleotrical machine in a vacuum, but the air may be full of olectricity, and still you can draw no spark
till you turn the mbohino. The benutiful statio may exist in tho nrtist's brain, and it may also bo said to exist in a certain sonse in tho marblo blook that stands before him, but ho must bring both his brains and his hands to bear upon the marble, and work hard and long, in ordor to produco any practical result. Success also deponds in a good mrasure on the man's promptness to take advantage of the rise of the tido.
A great deal of what wo oail "luok" is nothing more nor less than this: It is the man who keeps his oyes opon, and his bands out of his pookets, that succeeds. "I missed my chance," oxalaime the dicappointed man, when he sees anothor catoh eagerly at the opportunity. But somothing more than alertnoss is needed; wo muet know how to avail ourselves of the emergenoy. An elastic temporament, which never seems to rocog. nize the fact of dofeat, or forgets it at once and begins the work over again, is very likely to insure success. Many a graat orator has made a terriblo brenk-down in his maiden speech. Manya men ohnat loses one fortune only to build upanother and a larger one. Afany an inventor fails in his first efforts, and is at last rewarded with a splendid triumph. Some of the most popular novelists wrote very poor stuff in the beginning. Thoy were learning thoir trado and could not expect to turn out first-class worl uutil their apprenticeship is over. One great secret of success is not is not to become discouraged, but almass be ready to try again.

## EGGS AS FOOD.

Egge, at average prices, are among the oheapest and most nutritious articles of diot. Like mills, an egg is a complete food in itself, containing everything necessary for the development of a perfect animal, as is manifest from the fact that a ohick is formed from it. It seems a mystery how muscles, bones, feathers and everything that a chicken requires for its perfect developmont are made from the yolk and white of an egg; but suoh is the ...st, and it shows how complete a food an egg is. It is also easily digested, if not damaged in cooking. Indesd, there is no more concentrated and nourishing food than eggs. The albumen, oil and saline matter are, as in mill, ic right proportions for sustaining animal life. Two or three boiled eggs, with the addition of a slice or two of toast, will make a breakfast sufficient for a man and good enough for a ling.

According to Dr. Edrard Smith, in his treatise on "Food," an egg weighing an ounce and threequarters contains 120 grains of carbon and 17; grains of nitrogen, or 15.25 per cent. of carbon and two per cent. of nitrogen. The value of one pound of egge, as food for sustaining the active forces of the body, is to the value of one pound of lean beef as 1584 to 900 . As a flesh-producer, one pound of eggs is aboat equal to one pound of beef.

A hen may be calculated to consums one bushel of corn yearly, and to lay tendozen or fifteen pounds of egga This is equivalent to saying that three and one-tenth pounds of corn will produce, when fed to a hen, five-sixths of a pound of eggs ; but to produce f̂re-siaths of a pound of pork requires about five pounds of corn. Taking into account the notriment in each and the comparative prioes of the two on an average, the pork is about three times as costly a food as the egge, while it is cartainly less healthful.-Boston Journal of Chemistry.

## the care of fara yachinery.

We have noticed that plows last, on an average, abont throe years; waggons, eight to tan years, reapors, fire to eight ; drills, eight to ten. We think these figures are fully as large as the truth
warrants. Wo kuow of many imploments that have not lasted so lung, and of many which have lasted muoh longor. We to day can point to waggons that have been in constant and hard uee for trenty yoars, reapors that have stood tho wear and toar of liberal use for moro than fiftoon years, drills that have boon in uso as long, and othor agricultural implemonts that have stood the wear of fully twico the averago ngo of such inuploments. These imploments were not made of unusually good matarials nor were they suffored to lio idlo. They were pat to constant use. What, then, is the seorot of their greater ondurance? It is simply this-thoy wore talon eare of. When not in use thoy were put away, and put away properly.
These implements not only lasted longor, bat while they were in use they very rarely failed. They were always rendy for work. The reapers did not breals down in the middle of harvest and compel all hands to lie idle while some one wont to the railway station to get repairs; the drills did not fail just when the whent ought to be sown; the waggons were not always breaking down and occasioning dolays and vexations. Another thing may be said in their favour, and that is that they always did good work. The reapers ont a smooth stubble and pat the grain down in good condition; the plows did not refuse to scour ; the drills put the wheat in just as a first-class drill would; and these implements did good work not only while thoy were now, but till last year they were used. -Ohio Farmer.

## UNNECESSARY STEPS.

How many of our readers have over thought of the signifioance of $n$ single unnecessary stop in the performance of those duties of the farm or household which must be attended to several times each day? Suppose it be only in the distance from the well to the kitchen, or from the feed-bins to the manger, and that it be traversed but once each way, morning, noon and night, the total unnecassary travel in a year is more than a mile. bat how many of our houses or barns are so arzanged that all the daily duties can be performed with so little waste of travel? How many apringhonses are built at the foot of hills twenty, forty, sisty or more yards from the house, to which the weary houservife must trudge several times in the preparing of every meal, thus multiplying this one mile by twenty, fifty, or often a hundred ! How meny barns are likewise unnesessarily distant from the dwelling house, or inconventently arranged with respect to their varions parts, so that the care of the stock involves as many more miles of travel for the farmer! This is one of the little wastes unnoticed because so small, get constantly dripp:ng, dripping, which in the end makes many a farmer poor, and drives his wife into an untimely grave:-Farm and Firsside.

## HHERE AND HOW TO APPLY HERTILIZERS. -

It is often difficalt to decide-for barn-yard or stable manures, or for any artifioial fertilizerwhether to put in the hill or broadcest it; and whether to apply it on the surface or bury it doep1y. Here is a hint or two. If not strong enough to injure the first tender roots, a litue manure near at hand gives the plant a good cond off, like nourishing food to the young calf or other animal; the aftergrowth is much better if the young animal or plant is not drarfed by imperfect and insufficient diet. Therefore, drilling innoouons hand fortilizers in with tho seed is asefal, as in putting some well-rotted manure or leached ashena into hills of corm, potatoes, indeed rith all planted soeds. Bat there are good reasons for distributing

[^0]


[^0]:    $\qquad$

