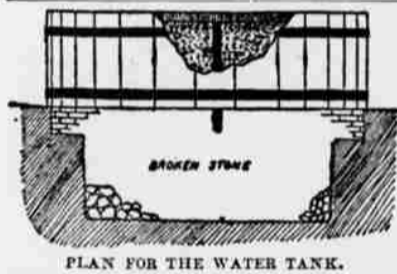


Prevents Mud Around Tank.

To prevent a mud hole forming around a watering tank a structure like this can be built. A hole or pit is dug the size of the tank to a depth of six feet and is filled with broken stone. The tank is then mounted on whatever kind of foundation desirable which can be made of brick or stone. The overflow pipe is placed in the center of the tank instead of at the sides which is usually the manner of attaching it. When the wind blows the water instead of slopping out of the sides and making a mud hole runs over the top of the waste pipe in the center of the tank and runs down to seep away in the broken rock and porous sub-soil. The accompanying illustration will indicate how it is constructed and the manner of disposing of the overflow of water from a stock tank. It will



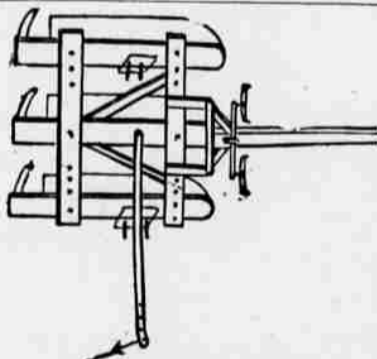
be better to have the water line a few inches lower than the top edge of the tank so as to preclude the possibility of any water escaping and making a mud hole.

Crops Following Cow Peas.

One ought not to get the idea that a worn out piece of ground can be planted to cow peas one year and be sown to seed so as to raise a paying crop the following year. Cow peas renovate the soil and supply nitrogen, but they can not and do not entirely rebuild it in a short period. If one has a worn out strip of soil, he must expect to spend some time and energy on it to get it in proper condition. A plan somewhat after the following would work well: Sow five pecks of cow peas per acre broadcast and with them four or five hundred pounds of some good fertilizer, using a fertilizer more heavily endowed with potash and phosphoric acid than with nitrogen, although it should contain some nitrogen. About the middle of the summer plow the cow peas under, lime the soil heavily, five hundred pounds or more to the acre, harrow in and sow to a mixture of crimson clover and rape. This, plowed under the following spring, would give one a soil fairly good for some cultivated crop upon which a liberal quantity of fertilizer should be used.—Exchange.

Marker for Corn and Beans.

The runners of this marker for corn, beans, etc., are of ash, with pieces of oak 1x4 nailed on top. The crosspieces are of spruce, 1x6. Can mark rows 2½, 3, 3½ or 4 feet, with guide pole to swing either way. What makes this marker all the more valuable and really a short cut, are the cultivator teeth to the rear of each runner. These teeth are set one inch below the iron shoe



NEW STYLE OF MARKER.

of the runner and bolted fast to the 1x4 oak; they make a good, soft seed bed.

To Kill Canada Thistles.

It may be a trifle early to discuss Canada thistles, but, if you are liable to forget, clip this out and put it where you can get it readily, and apply the remedy when the season comes: Put half a bushel of salt in a barrel, and hot water enough to dissolve the salt; stir till dissolved. Add water enough to nearly fill the barrel and dissolve in it one quart of concentrated lye. Let it cool, then sprinkle freely on the thistle patch. It is claimed they will wilt and die. This ought to be effective if anything will

Theory Not to Be Scorned.

It is safe to say that in no other profession, for farming is a profession if properly carried on, are there so few practitioners who understand the fundamental principles of their work as among farmers.

We call in a physician, and feel that if he can not tell us pretty nearly what the trouble is with the patient that he does not understand his business. We give a case to a lawyer, and if he makes a mess of it we feel, and rightly, that he is not up in his profession. We of the farm have a poor crop under normal weather conditions, and guess at the cause.

If we plow and sow we hope the soil will bring a certain return. If it does not, how many of us can tell why? The truth of the matter is, we plow and sow without much regard to why we do it, and with even less regard of what our soil needs are and whether we have supplied them.

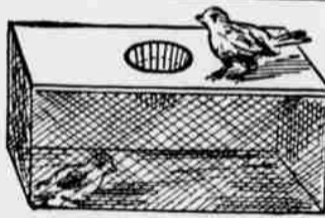
If every soil worker in the country could take a course of one year in practical soil chemistry, there would be such a change in farming operations and results as would startle the world. We read and see many agricultural successes, and in each and every case we would find, if we investigated, that the owner of the farm was well acquainted with it—as well acquainted with the case as the successful lawyer is who wins a case before the bar. Why not begin to study the farm? It surely will pay.—Indianapolis News.

Ashes Good for Fruit Trees.

I think very favorably of hard wood ashes for orchard use as a dressing for the soil, says a well-known orchard owner. It appears that we get results from their use altogether out of proportion to the amount of phosphoric acid and potash they contain, and that this must be credited to the effects of the lime they contain upon the soil contents. The chemist tells us that the lime, potash, etc., contained in wood ashes are in the best possible form for plant use. I would want more phosphoric acid than the ashes contain, and would prefer to add it in the shape of steamed bone rather than acid phosphate. I have used large quantities of acid phosphate in the past, and still favor its use, but not in combination with either wood ashes or common lime.

Trap for English Sparrows.

In many localities the English sparrow has become a great nuisance. To



ENGLISH SPARROW TRAP.

poison them is dangerous. To make an effective trap, buy wire screening and make a box cage. Cover the top with thin boards; make a large, round hole in center, inserting a wire funnel just small enough for the bird to pass through at lower end. Bait well. The bird lighting on the cage and seeing bait through the funnel will readily pass in.

Heavy Draft Animals.

At a recent Missouri Association meeting, Prof. Kennedy spoke as follows about the heavy draft horse: "The heavy draft horse weighs from 1,600 to 2,000 pounds, and is worth, at a minimum, \$200. Each of the first two additions of a hundred pounds above 1,000 increases the value of the horse \$25, after which every addition in weight means \$50 a hundred pounds. So a draft horse of 2,000 pounds is worth \$500. Light draft horses, weighing from 1,300 to 1,600 pounds, are used for express wagons, fire engines and other heavy but quick work. These bring about \$125 to \$200. The high-acting carriage or coach horse is worth from \$200 to \$2,000. The roadster or gentleman's driving horse, and the gaited saddle horse vary from \$200 to \$300 respectively up to \$1,000. In the last ten years there has been an advance of 25 per cent in the draft horses of Iowa and Missouri.

There always has been, and there always will be, a good demand for first-class butter. The man who makes good butter, not necessarily butter that the groceryman calls good, but butter that the most critical trade pronounces good, will always bring remunerative prices. There is no reason why the farmer should not be able to make as good butter as any modern creamery, in fact, there are many reasons why he can make better butter. It all depends upon the individual and the facilities he has for turning out a good product.



THE GREATEST OF ALL TONICS

The ingredients that enter into S. S. S. and the method of combining and preparing them so that they build up and strengthen every part of the body, make it the greatest of all tonics. S. S. S. is nature's remedy—PURELY VEGETABLE—and while it is restoring the lost appetite, overcoming that tired, run-down feeling, and other ailments common to Spring, which warn us that it is necessary to take a tonic, it is purifying the blood of all poisons and waste matters so that it can supply to the system the strength and nourishment it needs to keep it in perfect condition during the depressing summer months that are to follow.

Spring is the season when most every one needs a tonic. It is nature's time for renewing and changing; and as everything puts on new life, the sap rises in vegetation, the earth thaws out from its winter freezes, and all respond to Spring's call to purge and purify themselves, there is a great change also takes place in our bodies. The blood endeavors to throw off the poisons and accumulations which have formed in the system, and been absorbed by it, from the inactive winter life, and calls upon every member to assist in the elimination. The system is often unequal to the struggle, the appetite grows fickle, the energies give way, the spirits are depressed, and a general run-down condition is the result.

Then the body must have assistance—it must be strengthened and aided by a tonic, and S. S. S. is the ideal one. Being made entirely from roots, herbs and barks, it does not disagreeably affect the system in any way as do most of the so-called tonics on the market, which contain Potash or some other harmful mineral ingredient to derange the stomach and digestion, unfavorably affect the bowels, or otherwise damage the health. S. S. S. tones up the stomach and digestion and assists in the assimilation of food; it rids the system of that always-tired, worn-out feeling, and imparts vigor and tone to every part of the body. It establishes the healthy circulation of the blood, stimulates the sluggish organs, and calms the unstrung nerves which make one feel that he is on the verge of prostration. S. S. S. gives an appetite and relish for food that nothing else does, and by its use we can find ourselves with as hearty, hungry an appetite in Spring as at any other season.

It acts more promptly and gives better and more lasting results than any other remedy, and is absolutely safe because of its vegetable purity. Dyspeptic, irritable, nervous, debilitated people will find S. S. S. is just the medicine that is needed for the purification of the blood, which, from its diseased or impure condition, is causing their trouble, as well as for toning up and helping the entire system. When you take your tonic this Spring do not experiment, but get the best—the tonic with forty years of success behind it, and the one endorsed by the best people all over the country—S. S. S., THE GREATEST OF ALL TONICS. It is necessary at this time, when the system is depleted and weakened at every point, that the right remedy be used—one that is especially adapted to the condition, and S. S. S. has proved itself to be this remedy for many years. If it is taken at the first sign of Spring the system will be so built up and strengthened that the disagreeable affections of the season will not be felt as warmer weather comes on.

AN EFFORT TO PULL THROUGH THE DAY.

I have used S. S. S. quite extensively and unhesitatingly recommend it as the best blood purifier and tonic made. I am a machinist by trade and at one time my system was so run down that by 10 o'clock every day I would be completely exhausted, and it was with the greatest effort that I could pull through the balance of the day. Since taking S. S. S., however, all this has disappeared. I am a strong, vigorous man, abundantly able to do my day's work, my appetite has been whetted up so that I can eat anything, my sleep is sweet and refreshing, and I know further that it has purified my blood and put it in good condition. I cannot speak too highly of your great remedy, S. S. S. 817 W. Broad St., Columbus, O. A. B. MONTGOMERY.

SHE FOUND IT THE BEST SPRING TONIC.

On two occasions I have used S. S. S. in the spring with fine results. I can heartily recommend it as a tonic and blood purifier. I was troubled with headache, indigestion and liver troubles, which all disappeared under the use of S. S. S. My appetite, which was poor, was greatly helped. I can eat anything I want now without fear of indigestion, and my blood has been thoroughly cleansed of all impurities and made rich and strong again. As a tonic and blood purifier it is all you claim for it. 771 E. Main St., Springfield, O. MRS. G. WIEGEL.

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"I would love to meet him."
"He would make you a husband of whom you need never be jealous."
"Gracious, is he that ugly."—Houston Globe.

No Resemblance.
The Young Man (at the other end of the sofa)—Er—it isn't true, I hope, Miss Pirtle, that you told Miss Gawsip I was a sardine.

The Young Woman—If I did, Mr. Faintart, I take it back. You're not the least bit in the world like a sardine. You seem to be terribly afraid you are crowding somebody.—Chicago Tribune.

Mothers will find Mr. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

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FRANK J. CHENEY.
Sworn to before me and subscribed in my presence, this 6th day of December, A. D. 1886.
A. W. GLEASON,
Notary Public.

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—Louisville Courier-Journal.

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