

For Watering Stock.

No matter how pure a source of supply may be at hand for watering stock, if it is pumped into an open trough and left exposed for any length of time it soon becomes polluted and un-fit for the animals to drink. This will not be the case, according to the inventor, if the stock watering apparatus here shown is put into use. pure water is furnished to the tank barrel to which this fountain is attached it is claimed that there is no way by which the animal that is drinking can make it foul. The waterer consists of a double drinking bowl, made of cast iron, which is attached to the outside of a tank or On the inside is another chamber, inclosed in which is a brass float and lever controlling the flow of the water to the outside bowl. The fountain is automatic in its action, as the float rises with the water in the bowl and cuts off the supply when



the proper height has been reached. As the valve is always closed except when water is flowing from the tank to the drinking bowl, there is no op portunity for foreign matter to find its way to the interior of the storage reservoir.-Denver Field and Farm.

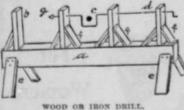
Root Crops for Stock.

There is not a farmer in business but who can readily spare an acre or two of ground on which to grow root crops. If he has any number of heads of stock he will find that he can not grow anything on the farm to greater profit than the small area named put into root crops. Mangel wurzels are among the easiest of the root crops grow and they will grow on any soil if the soil is properly prepared. The seed bed should be deep and harrowed several times after thorough plowing. Seeds should be drilled in and from two to four pounds of seed an acre will be required. The space between rows should be kept free from weeds and when the plants are three four inches high they should be thinned out so that they will stand fifteen inches apart.

It will be necessary to keep the field hoed or cultivated until the plants get strong enough to overcome any weed sort of cultivation it is possible to grow from 600 to 1,000 bushels on an acre. according to the condition of the soll. Carrots and turnips can be easily raiseral feeding the mangels are, perhaps,

Handy Workshop Tool. I have a cheap force feed drill press that is very useful on my farso. A timber a, 4x6x6 feet, is supported by legs e, like a trestle. The uprights b and d should be longer than shown. that they may be tied together at the top, as the outward strain is considerable; both center uprights are 2x4x 12 inches. All uprights are braced as shown at f f f. The bit stock e is made by bending a 1/2 or 1 in round rod into shape as shown, or may be

purchased at a hardware store.



feed screw is shown at d, which may screw into the wood, or a nut may be attached to the front side of rear up-A tool chuck g is screwed to the end of the bit stock. Loose blocks of wood are placed between the bit and the front post b as needed. By using twist drills, either wood or iron be bored.-George T. Price, in Farm and Home.

Thumps in Pigs.

More cases of thumps among pigs

handling of young pigs it is that they need sun and exercise, both in con siderable quantities. An ideal pasture My father and mother can never be for young pigs is a place that may be fenced off from the main pasture where there is one or more which will provide shade, but where there will also be a large space of comparatively dry ground, in grass, on which the pigs may run. If there is white clover in the grass, so much the better for the pigs, and they will need less corn. Sun and exercise will prevent thumps, which disease usually means death.

Sheep for the Farm.

If one is in the raising of sheep exclusively, one can afford to go into the question of fancy breeds suited to the market to which he is catering, but the average farmer who raises sheep simply as one more crop from which he hopes to derive an income, should select the breed from those most common in his section. The general purpose ewe, if this term may be applied to sheep, is the one with some Merino blood in order to obtain the heavy fine fleece. It has been observed that the animal with the close, dense fleece is the vigorous, hardy animal. The ram should be of a good cross or a pure bred, if desired, but care should be taken that he is of a breed suited to thrive in the section where he is to remain and under the conditions with which he will be surrounded. In selecting sheep for the farm it is generally wise to look after the merits of each individual regardless of the breed to which she belongs, for there are good breeds with poor members of the family just as there are good members in breeds that are not so highly rated. In most ections where sheep may be raised to advantage there is room for many more than are now raised. If farmers would go into this industry, care fully increasing their holdings as they gain experience, they could make sheep raising profitable.

Lice Troubling Pigs. It is not unusual for swine, and par ticularly the young pigs, to be afflicted with lice, and the trouble is usually due to unclean quarters. If the pigs are constantly scratching they should be closely examined for lice, and if the a full understanding that it is to act vermin are found the pigs should be as a running mate to the greater work taken from the pen and the latter thoroughly cleansed. Scrub the pen thoroughly and then whitewash it. The pigs should also be scrubbed with a solution of sulphur or by using some of the sheep dips, of which there are many good ones on the market. If no lice are found on the pigs, then the trouble generally comes from proper feeding of the sow while she is nursing. If this is thought to be the case, cut the corn out of the ration middlings, bran and milk for a while. Clean the pigs with the sheep dip, as suggested, which will allay the irrita-

Farm Notes.

A farmer should know enough about law to keep out of it.

No one can be found now who ob jects to dehorning cattle.

In butter making, next to controlling the temperature is to churn often while the cream is in good condition.

lows are given access to their mother, but as they soon find but little to supgrowth. After this no care is neces- ply their needs they become disgusted until fall harvest. Under this and readily adopt the idea of paddling their own canoe.

Many a runaway has resulted just because too much confidence has been placed in a team. There is always a ed on the same plan, although for gen- feeling that "they'll stand." It pays to some of the most distinguished of our make teams secure before leaving civil war generals and who are known

A stall for a horse should be five feet wide. If wider the horse will these officers were young lieutenants turn over and get east, if narrower he they were stationed in the wilds of can't rest. and level if the horse gets the rest he of women of their own kind; that they should have.

that has rusted fast is to cut a notch consort with Indian maidens; that, acon the side of burr with a cold chisel, cording to Indian standards, there was Cut two notches at opposite sides. The nothing wrong about it, and that from cuiting will loosen it and the jarring every standpoint it was advantageous occasioned by the strokes will assist to the girl taken for a temporary wife. It may then be easily taken off with At the little town of Puyallup, ten a wrench.

think of helping make or cultivate the general who for a long time was at a job for them, and yet they never ment of the United States army. These object to partaking of what comes men are the sons of the general. He when the garden is put in and when dian, when he was a lieutenant and the crops are reaped it is 'our garden." stationed at the Puyallup Indian agen-

billion acres only 500,000,000 are left years he married an American woman system of land laws it will only last But he did not abandon his family on five years. During the first ninety the Pacific coast. His sons were taken days of this fiscal year 6,000,000 acres East and put through one of the leadwere filed upon. that everybody shall have a farm as them and openly acknowledged them. long as they last. His farms are go. On one occasion, at least, he was acing fast.

where farmers are going to control to have accepted them philosophically. prices of farm products, one should His Indian wife lived for some years rest assured that somebody else is go. after he had married his American ing to be enriched by the scheme. It is not among the possibilities to con are reported this year than in some trol the prices of staple farm prod. the visitor how he made her old age time before, owing, doubtless, to the ucts. All attempts to do so will prove rainy weather, which prevented the failures. When approached to lend aid should for the sons of their marriage. pigs from getting the sunshine they so to any scheme of this character it will -Kansas City Journal. eded. If there is anything be well to look for the African in the need to learn about the fuel; he's there.

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Little Stories and Incidents that Will Interest and Entertain Young Readers

Parents Worth Having.

They're the nicest that ever were made. remember the fun they had when

they were young,
And all of the games that they played.
And, better than all, they play with us

themselves, Yes, really and truly, they do! Every night after dinner till bedtime has

come, There's Willie and Burton and Prue, And Alice—that's me—and my father and mother—

Enough for some royal good fun. We play Blind Man's Buff and Hide-and Go-Seek,

You should see how my mother can They don't either one of them mind be-

ing "it,"
And they always are awfully fair. We none of us think the game's any fun Unless all the players are "square."

And every new game we teach father and mother; They teach all the old ones to us; romp and we play, big and little together,

With never a sign of a fuss.

But sometimes a stranger man comes to

our play—
He creeps in so quiet and still
That we don't know he's here till we hear a deep sigh

From our littlest one-that is Will. Then we know that the Sand Man has joined in our play

And is trying to put us to sleep. Then father and mother both kiss us

"good night"
And away into Dreamland we creep.

-Elizabeth Jamison.

Why Vacations Are Given.

In this age of tension every boy should be taught some form of recreation that he will cling to in after life. When the thing by which he has made his fame or money threatens his very existence he can turn to this safeguard and, while his mind is pleasur ably occupied, regain his physical poise. It may be yachting, canoeing on little rivers, mountain-climbing. traveling, horseback-riding or hunting. Whatever it may be, the thought and the love for it is better engendered during the formative years if there is in life and is properly and necessarily part of a boy's education. For those who work under modern

stress there is, with rare exceptions, cate.

TAKE TO INDIAN SPOUSES. Many Army Officers Have Wedded Squaws in Past Times.

It is announced from Fort Leaven

worth that the government is taking notice of army officers who married for the sow and feed her largely on Filipino girls after the loose fashion of the islands and then abandoned them. The particular case is one in which a young officer became engaged to a Leavenworth girl. It was known that this officer had lived with a Fillpino girl near Manila after some sort of a marriage ceremony. The Leavenworth girl is said to have no objections to the facts in the case, and will marry her lover when he gets a divorce from his Filipino wife.

However, there is nothing particularly new in the revelations with respect to "morganatic" marriages by United States army officers. Before the civil war it was almost the customary thing by weight but a fraction of 1 per for officers stationed in Oregon or Washington Territory to consort with Indian girls. At Tacoma or Scattle the visitor often has pointed out to him half-breeds who bear the names of to be the sons or daughters of these officers. It is explained that when The floor should be even the Northwest, far from the society needed housekeepers; that it was the A very good way to loosen a burr custom of the region for white men to

miles from Tacoma, there are two fine-Some men folks on farms never looking men who bear the name of a This is considered too small the head of the quartermaster's depart-It is "my wife's garden" married the mother, a Puyallup In-Of Uncle Sam's domain of over two cy, long before the civil war. In later Under the present in the far East and raised a family. Uncle Sam intends ing colleges. He frequently visited companied by his American wife, who Whenever one reads of a combine seemed to know the circumstances and spouse, though he never visited her. But old-timers about Tacoma will tell comfortable, while caring as a father

Milkmen and dancing masters are

| aways a time when the strain becomes greater than the endurance and an enforced change is imperative. The summer vacation is the expression of a physical necessity. It has come into existence in America in the last twenty-five years and it satisfies the need of many, especially the young, who have not forgotten how to play, or those, the strong among us, who learned something as boys that they still like to do as men. There are others, however, who are not so fortunately placed and still others growing up who do not realize this need.

Dont's for Girls.

Don't be sarcastic or envious; it may be you have more advantages and blessings, if recognized, than they

Don't tease brother, but help him. Don't snub him; some think boys were made only to be scolded and just

Don't be afraid of being laughed at when your motive is good.

Don't boast; it is the sign of weak-"Charity vaunteth not itself, is ness.

not puffed up. Don't be irritable and quick-temper-

Lastly, later on-Don't lose your sweet womanliness.

If the boy who exclaims "Just My Luck" were truthful he would say "Just my laziness" or "Just my in-

Luck is waiting for something to

Labor, with keen eyes and strong will, will turn up something.

Luck lies in bed and wishes the

with a busy pen or ringing hammer lays the foundation of a competence. Luck whines.

Labor whistles.

Labor on character.

Luck slips down to indigence.

COMPOSITION OF THE BRAIN.

as in Other Parts of the Body. Whether it be the brain cell of a glow-worm or one trembling with the harmonies of Tristan and Isolde, the stuff it is made of is much the same; it is a difference in structure, apparently, rather than of material. And the chemical difference between a brain or nerve cell and that of the muscles or the skin seems reducible mainly to a difference in the proportion of two substances-water and phosphorus. Lean beef, for example, is from 70 to 80 per cent water; the brain is from 90 to 95 per cent water. And a brain or nerve cell maw contains from five to ten times as much phosphorus as, let us say, the cells of the liver or the heart. The actual quantity is, of course, extremely small

About three pounds avoirdupois of this very complex phosphorized stuff make up an average human brain. There is a lot more of it distributed down one's spinal column, and little plexuses all over the body, wherever a group of muscles are to be moved; and others still, the sensory or feeling nerves, which are everywhere. It is hard to find a cubical half-inch out-

All told, the nervous substance, which for the sake of making its functions clear I have called the matter which thinks, forms a not inconsiderable portion of the body outside of the bony skeleton. It is made up of distinct and separate units, for the most part extremely minute, though some attain a length of two or three feet. These units, for lack of a more misleading name, are called cells. The "cells" which run from the small of your back down into your toes and wiggle the same or inform you when a member of the family is stubbed are the longest. Those of the brain are mostly so small as to tax the powers of the microscope; their average length would be measured in thousandths of an inch. There have been many attempts to get their actual number; it is certainly large. Computations for the brain alone range from 60,000,000 upward. One, due, I think, to Waldeyer, sets the total number of brain cells (average) at 1,600,000,000. This would mean a brain population exceeding the known population of the

Best Kind of a Guide.

often at a loss without their pumps. | inward apology to Edward Bok

GRATEFUL, HAPPY WOMEN



Don't let mother bear all the cares. Don't talk about your girl friends; choose the true friend and drop the

whom you envy.

endured.

Don't be careless, slovenly and dila-

Luck and Labor.

attention.

postman would bring him news of a legacy. Labor turns out at 6 o'clock, and

Luck relies on chances.

Labor strides upward to independence.-Northwestern Christian Advo-

Same Sort of Material Is in Nerve Cells

side the bones where they are not.

First Sportsman-Good guide, is he? Second Sportsman-Oh, yes! If nec essary he'll do the shooting and bring home the game and let you say you did it and whip anybody that says you didn't .- Puck.

We have an idea that when a woman eats corn off the cob, it is after an

Thank Pe-ru-na for Their Recovery After Years of Suffering.

Miss Muriel Armitage, 36 Greenway Ave., Detroit, Mich., District Organs of the Royal Templars of Temperas in a recent letter, says:

of the Royal Templars of Tempers, in a recent letter, says:

"I think that a woman naturly shrinks from making her troubles polic, but restored health has means much to me that I feel for the six it other suffering women it is my dust tell what Peruna has done for me.

"I suffered for five years with ureas irregularities, which brought on it teria and made me a physical wrek." I tried doctors from the different school of medicine, but without any persent ble change in my condition. In my despair I called on an old nure, who advised me to try Peruna, and premise good results if I would persist and that it regularly. I thought this was the least I could do and procured a both I knew as soon as I began taking little it was affecting me differently from anything I had used before, and wilkept on taking it. I kept this up to six months, and steadily gained strengt and health, and when I had used fiber bottles I considered myself miny curred. I am a grateful, happy woma today."—Miss Muriel Armitage.

Peruna cures catarrh of the pelic of gans with the same surety as and the was many to man with the same surety as and the person with the same surety as and the person with the same surety as and and health, and steadily person to the person with the same surety as and the person with the same

Peruna cures catarrh of the pelvic gans with the same surety as it of catarrh of the head. Peruna has catarrh of the head. Feruna has become renowned as a positive our for female ailments simply because theilments are mostly due to catarh. Catarrh is the cause of the trouble. For runa cures the catarrh. The maptoms disappear.

Female Weakness Is Pelvic Catarrh.

Always Half Sick are the Women Who Have Pelvic Catarrh.

progress, will affect the whole body. Catarrh without nervousness is very rare, but pelvic catarrh and nervousness go hand in hand.

ing from the many almost unbearable uable advice gratis. symptoms of pelvic catarrh? She does consider herself ill enough to go to The Hartman Sanitarium, Columba bed, but she is far from being able to Ohio.

Knew Her Business.

of your best cheese.

way it comes.

spects him."-- Life.

bills down.

"Why?"

ning up.

Grocer-Yes, ma'am.

this cheese is full of holes!

Grocer-Yes ma'am.

Mrs. Newed-I would like a pound

Mrs. Newed (examining it)-Why,

Mrs. Newed-Well, I don't want

any of it. I'm not going to pay for a pound of cheese that contains a half

Papa's Definition.

The Way With Bills.

Husband-You must try to keep our

Wife-I do, but they're always run-

Indiscretion.

"Perfectly idiotic, I should say."

"Because when I was engaged I told

my future wife all about my income

and prospects, and now I can't spend a

dollar on myself without her knowing about it."

"Aren't the perfect trust and confi-

"Any man, my son, whose wife re-

"Papa, what is a diplomatist?"

pound of holes .- Boston Journal.

That's the

do her work without the greatest ahaustion. This is a very common sint and is almost always due to pelvice tarrh.

It is worse than foolish for so many women to suffer year after year with a disease that can be permanently und Peruna cures catarrh premanenti

It cures old chronic cases as well as a Catarrh of any organ, if allowed to ing in the length of time that it should should be taken to effect a cure. If you do not derive prompt and and isfactory results from the use of Per-

what is so distressing a sight as a loor half-sick, nervous woman, suffer-Address Dr. Hartman, President d

May-Oh! George, papa set alarm for 10:30 tonight. George—Indeed. Didn't yourement the other night that the ticking we

He Stopped the Clock.

menotonous and annoyed you?

Novel Fishing Feat.

The details of "A Novel Fishing Feat," told by Everett Foster int September St. Nicholas, are part of experience of the winter in Yelles stone Park a few years ago. The lat who caught the trout, and, sithet moving from his position, swan is catch over into Nature's pot and cessfully cooked it was a young brot of Mr. Foster; and the parrator wast of those who tasted the uniquely p pared dish and found it palatable.

Where Fishhooks Come From.

Practically all the best fishhoots the world-and nearly so of all qua -are made at Redditch. The s dence engaged people have in each nual output is probably 500,000,8 other perfectly beautiful!" each hooks—about 10,000,000 per week ranging in size from enorm rocious-looking shark-hooks to the ti iest hooks for very small troutile with a "bend" diameter of about on sixteenth of an inch, 1,000 of which will not more than fill a good-tax thimble.

AND SHEET GOOD BLOOD SPEAKS FOR ITSELF

You know when rich, red blood is coursing through the veins, for it shows in the brightness of the eye, the beauty and clearness of the complexion, the smooth, fair skin, and robust, healthy constitution. It is good blood that imparts strength and energy to the body and keeps it in a sta healthfulness and vigor. Good blood is the foundation of good health, and to be physically and mentally sound it must be kept pure and until the sound it is to be the pure and until the sound it is to be kept pure and until the sound it is to be kept pure and until the sound it is to be kept pure and until the sound it is to be kept pure and until the sound it is to be kept pure and until the sound it is to be kept pure and until the sound it is to be the sound it is to be physically and mentally sound it is to be a sound it is to be physically and mentally sound it is to be kept pure and until the sound is to be physically and mentally sound it is to be kept pure and until the sound is to be physically and mentally sound it is to be kept pure and until the sound is to be physically and mentally sound it is to be kept pure and until the sound is to be a sound in the sound in the sound is to be a sound in the sound in the sound is to be a sound in the sound in the sound in the sound is to be a sound in the sound

People with good blood possess strong, steady nerves and are blest with good appetites and digestion, and enjoy sound, refreshing sleep. If we could always maintain the purity of the blood then we might enjoy perpetual health, but it becomes infected poisoned and most of the ills that afflict humanity and undermine the constitution are caused by an impoverished

or polluted condition of this vital fluid. When the blood is diseased the skin loses its healthy appearance, and the complexion, its freshness and beauty and becomes red and rough and full of pimples and splotches. Itching, scaly eruptions, blackheads, boils and rashes break out upon the body when the blood is too poor or too thin and acid, and is not supplying proper nourishment to the system. Debility, poor appetite, bad digestion, restless sleep and nervousness more often come from sluggish, impure blood than any other To build up the blood, restore its lost properties and make it ri

For three years I had Tetter on I hands. Part of the time the dist very painful and causing me discomfort. Four doctors said to Tetter had progressed too far to cured, and they could do nothing me. I took only three bottles of 3.55 and was completely cured. This re fifteen years ago, and I have to

I was in wretched health; my b

was in bad order, my gums ! very much ulcerated. I beganth

tite increased wonderfully an

food agreed with me. I think it

fine family medicine.
MRS. M. R. DAVIDSON

of S. S. S., and in a remar

Bockmart, Ga.

since seen any sign of my old trobbs
MRS. L. B. JACESON.
837 St. Paul St., Kansas City, Es.

and nutritious again is the only rational treatment, and the proper way get rid of skin troubles. There is no remedy like S. S. S. to ac and it does it promptly and the S. S. S. antidotes and removes from blood all poisons and humors, and res it to a normal, healthy condition, and vigorates and tones up the general heal When rich, red blood is again for through your veins all skin emp

disappear, the appetite improves, the complexion clears and you get to those miserable depressing feelings and nervousness, and enjoy once more blessings of good health. S. S. S. is nature's remedy for all blood and skin eases. It contains no minerals whatever, but is guaranteed purely vertically write for free book minerals whatever, but is guaranteed purely vertically information. Write for free book. No charge for medical advice or other

THE SWIFT SPECIFIC CO., ATLANTA