


### Abandoning the Missouri.

There are indications that the long and costly struggle to keep the Missouri river a great highway of commerce is to be abandoned and that the river will be permitted hereafter to pursue its erratic course to the Mississippi without attempts by United States engineers to keep it in order. Millions of acres of land have been swept away and deposited elsewhere. In one place a tract of 1,700 acres was transferred in a single night from Iowa to Nebraska by a change in the course of the river.

### Horse Power.

A horse power is the force required to lift a dead weight of 33,000 pounds one foot a minute. To find the horse power of an engine multiply the area of the piston in inches by the average steam pressure in pounds per square inch. Multiply the product by the travel of the piston in feet per minute and divide that product by 33,000. If an engine is rated at 73-horse power it will raise 33,000 pounds one foot 73 times in one minute.



### Half-Hour with Children

#### In Bat Land.

A good little bat, when the day is night,  
Flies home to his snug little bed;  
As soon as the sun is up in the sky  
No bat should be seen overhead.

They sleep all day, tucked out of the way,  
And what seems the strangest of all,  
Their heads hang down where their tails  
ought to be.  
And they cling by their toes to the wall.

When the sun has set and the birds are at rest,  
And the moon and the stars are on high,  
Then each little bat pops out of his nest  
And goes for a sail through the sky

How topsy-turvy their life must be!  
They breakfast at 8 p. m.;  
And just at dawn they are ready for tea—  
But it doesn't seem queer to them.

—Washington Star.

### Farm Topics

#### Lambs in the Market.

Lambs bring twice as much in market as sheep, including the wool device from the sheep, and the market is seldom overstocked with lambs.

#### Evaporated Corn.

It takes about ten ears to average one pound of evaporated corn, and 100 pounds of fresh cut corn will make a triple over twenty-five pounds of the finished product of high grade. If the corn is hard and nearly ripe this yield would be increased but at the expense of quality. Such corn will sell at from eight to ten cents per pound in car lots, according to the market. Most of those engaged in evaporating corn have increased their business gradually and pay from twenty-five to forty cents per hundred ears, or about \$9 per ton, delivered at the factory in the husks.

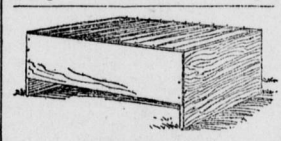
#### A Profitable Crop.

It is safe to say that the market gardeners near our large cities realize greater profits from lettuce than from any other vegetable. It is a very hardy plant, and when well under way withstands not only quite a degree of cold, but also the heat. If the plants are partially protected by being set out on the sunny side of ridges, they progress much more rapidly in growth than when not so carefully managed, and the quicker they can be grown the better the quality. If the plants are set out in rows wide enough to admit the free use of the hoe, and well manured, they will become solid, but when sown broadcast on rich beds they also furnish a large quantity of tender leaves.

#### Feeding Large and Small Chickens.

Where large and small chickens run at large in the same lot the feeding of them becomes a difficult matter, as the larger crowd the weaker and take most of the food.

Get one or more big but low dry goods or grocery boxes and remove a part of each side, as shown in the cut, making the opening just high enough to permit the smaller chicks to enter. Stretch a wire from side to side at the top, and throw feed inside for the younger broods. They will quickly learn to start for their own quarters when the feed dish appears.—New England Homestead.



#### Competition for Standard Oil.

Consul F. W. Mahin writes from Reichenberg, June 16, 1902: "The Austrian refiners of petroleum have effected an organization for export purposes. It is announced that they intend to invade France, Germany, Switzerland and Italy, and wrest those countries, if possible, from the American company which now supplies their demands for petroleum, and that they also propose contesting certain markets with Russia."

#### Rents are falling in Buenos Ayres.

#### The Okapi.

The okapi, the strange animal a short time ago discovered in Central Africa by Sir Henry Johnston, is now thought to have been known to the ancient Egyptians. The old monuments show a so-called "animal of set," a desert quadruped variously supposed to have been a fox, a muskrat, a dog, a camel and even a fabulous animal. A study of the pictures convinces Prof. Woldemar that this creature was the okapi, which early hunters exterminated in Egypt.

In Humboldt and Mendocino counties, California, there are 36 sawmills at work upon the famous redwood forests, which are gradually disappearing, the value of the output of the year 1900 being nearly \$5,000,000.

King Edward VII. is to establish a new order, it is said, which will confer honor on distinguished women. Since the Baroness Burdett Coutts received her title no woman has been elevated to the peerage because of her philanthropic benefactions.

Conservationists have just been granted to construct and run 27 branch lines of the Swedish railways. The new lines will cover a distance of 250 miles in all, and it means that Sweden will again have occasion to purchase a large quantity of rolling stock.

Hall's Catarrh Cure is a liquid and is taken internally, and acts upon the blood and mucous surfaces of the system. Send for testimonials, free. Sold by druggists, 75c. F. J. CHENEY & Co., Props., Toledo, O.

English shipbuilders get their guns and boilers in Germany.

FIT'S permanently cured. No fits or nervousness after first day's use of Dr. Kline's Great Nerve Restorer. \$2 trial bottle and treatise free. Dr. R. H. KLINE, Ltd., 981 Arch St., Phila., Pa.

The average salary of clergymen in the United States is \$900 a year.

Mrs. Winslow's Soothing Syrup for children teething, softens the gums, reduces inflammation, allays pain, cures wind-colic, 25c. a bottle.

The first Franklin trolley in America will be run in Frankfort, N. H.

I do not believe Piso's Cure for Consumption has an equal for coughs and colds.—JOHN F. BOVEN, Trinity Springs, Ind., Feb. 15, 1900.

It's usually youth and not learning that makes young people so smart.



The remaining letters of the alphabet explain themselves. Considerable space must be left between words, or an improvement on this is to lay a small twig between your words.

When a boy has familiarized himself with the alphabet, the sticks and stones in the diagram will be found to read: "Making arrows at the big spring."


When the messages indicated to a member of the outlaw band that his fellows were engaged in some sort of work which would keep them moving about, as, for instance, searching for new camping grounds, new springs, or the proper kinds of wood from which to make bows and arrows, he would find his companions through his knowledge of the woods where they were most likely to find what they wanted, and by tracking them.—New York Sun.

### Half-Sick

"I first used Ayer's Sarsaparilla in the fall of 1848. Since then I have taken it every spring as a blood-purifying and nerve-strengthening medicine."  
S. T. Jones, Wichita, Kans.

If you feel run down, are easily tired, if your nerves are weak and your blood is thin, then begin to take the good old standard family medicine, Ayer's Sarsaparilla.

It's a regular nerve lifter, a perfect blood builder. \$1.00 a bottle. All druggists.



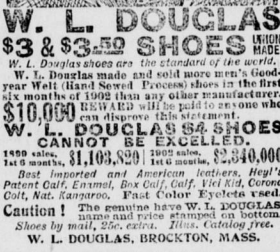
Ask your doctor what he thinks of Ayer's Sarsaparilla. He knows all about this grand old family medicine. Follow his advice and we will be satisfied.  
J. C. AYER & Co., Lowell, Mass.

### THE BEST WATERPROOF CLOTHING IN THE WORLD

REPAIRS THIS TRADE MARK TOWER'S FISH BRAND

MADE IN BLACK OR YELLOW TAKE NO SUBSTITUTES ON SALE EVERYWHERE CATALOGUES FREE SHOWING FULL LINE OF GARMENTS AND HATS

A. J. TOWER & CO., BOSTON, MASS.

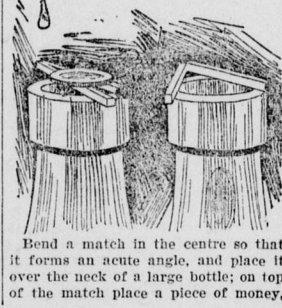


### SURGICAL OPERATIONS

#### How Mrs. Bruce, a Noted Opera Singer, Escaped an Operation. Proof That Many Operations for Ovarian Troubles are Unnecessary.


"DEAR MRS. PINKHAM:—Travelling for years on the road, with irregular meals and sleep and damp beds, broke down my health so completely two years ago that the physician advised a complete rest, and when I had gained

### What a Drop of Water Can Do.



Bend a match in the centre so that it forms an acute angle, and place it over the neck of a large bottle; on top of the match place a piece of money,

### Washington Puzzle Picture



Washington is signing the capitulation of Fort Necessity. Find the Indian Half-King and Queen Aliquippa.


### Where the Hog Leads.

For quick returns the hog is far ahead of the steer or sheep. He is easily fitted for the slaughter at six months old, and at that time, if he has been well fattened, eighty per cent. of his live weight is in dressed meat. But, as the saying goes, every part of him excepting the grunt and the squeal is utilized. The bristles, the intestines or sausage casings, the blood and the bone, all play their parts, while the liver and heart are favorite food with many. The steer will need about three crops of corn to fatten him, and often not more than fifty per cent. of his weight is dressed meat, while it is unusual to find one that does not shrink over forty per cent. One crop of corn will fatten both the fall and the spring pigs each year. All of this is a decided advantage in favor of the keeping of swine, and those who have done so and avoided the attacks of cholera and swine plague have been successful and prosperous in their business.—Kansas Farmer.

### Cross?

Poor man! He can't help it. It's his liver. He needs a liver pill. Ayer's Pills.

Want your moustache or beard a beautiful brown or rich black? Use Buckingham's Dye



MRS. G. BRUCE.

sufficient vitality, an operation for ovarian troubles. Not a very cheerful prospect, to be sure. I, however, was advised to try Lydia E. Pinkham's Vegetable Compound and Sanative Wash; I did so, fortunately for me. Before a month had passed I felt that my general health had improved; in three months more I was cured, and I have been in perfect health since. I did not lose an engagement or miss a meal.

"Your Vegetable Compound is certainly wonderful, and well worthy the praise your admiring friends who have been cured are ready to give you. I always speak highly of it, and you will admit I have good reason to do so."—Mrs. G. Bruce, Lansing, Mich. \$5000 forfeit if above testimonial is not genuine.

The fullest counsel on this subject can be secured without cost by writing to Mrs. Pinkham, Lynn, Mass. Your letter will be entirely confidential.

### Good Things to Eat

from Libby's famous Hygienic kitchens, where purity prevails. All meats used in

LIBBY'S Natural Flavor Food Products

are U. S. Government Inspected.

Keep in the house for emergencies—for suppers, for sandwiches—for any time when you want something good and want it quick. Simply turn a key and the can is open. An appetizing lunch is ready in an instant.

LIBBY, McNEILL & LIBBY, CHICAGO.

Write for our free booklet, "How to Make Good Things to Eat."

### Farmers and Breeds.

The breeds of sheep are being improved every year, and farmers who have not familiarized themselves with the characteristics of sheep should bear in mind that they are behind the buyers, who can distinguish at a few moments' examination exactly what kind of a sheep from which the wool was sheared, and its fitness for the purpose for which it is desired. The buyers know the breeds, the kind of wool peculiar to each breed, and all about them, for it is "business." A farmer would sneer at a carpenter who professed to be a carpenter and yet could not do a piece of work in that line; and yet, it may be claimed, there are hundreds of farmers who profess to be farmers, and who would rebel if their knowledge of the business should be questioned, but who, at the same time, cannot tell as much about the products of the farm as many of those who know nothing about farm life. There are hundreds of farmers who are not able to distinguish breeds of sheep, and who do not know the particular purposes for which a breed is most suitable, and still they pride themselves on their calling as a business which they intend to make profitable. If such farmers could be brought to a realization of the fact that they are really deficient in knowledge it would be to their interests. Every year we witness the shipment of the products of the farm to market, where the buyer fixes the grade, although he has no experience on the farm. Farmers as a class are not business-like, for they rely too much on the judgment of others. It is not intended to imply that they should not seek the advice of others, but when the farmer surrenders everything to hard work he should begin to educate himself in every possible way to improve his chances.—Philadelphia Record.

### RIPANS

I have been a great sufferer with piles for years, and I have tried everything I heard of, and have been in the hospital at times. I have had bleeding piles, and felt terrible. An aunt of mine came from the country to see me and she made me take Ripans Tablets. I first took two four times a day, then I took one at each meal, and then one every day. At the end of two weeks I felt a great change. I thank Ripans for relieving me of all I suffered.

At druggists.

The Five-Cent packet is enough for an ordinary occasion. The family bottle, 60 cents, contains a supply for a year.

### THE UNIVERSITY OF NOTRE DAME

NOTRE DAME, INDIANA.

FULL COURSES IN Classics, Letters, Economics and History, Jurisprudence, Art, Science, Pharmacy, Law, Civil, Mechanical and Electrical Engineering, Architecture.

Thorough Preparatory and Commercial Courses.

Rooms free to all students who have completed the studies required for admission into the Junior or Senior Year of any of the Collegiate Courses.

Rooms to Rent, moderate charge to students over seventeen preparing for Collegiate Courses. A limited number of Candidates for the Sociological class will be received at special rates.

St. Edward's Hall for boys under 12 years, to insure in the completeness of its equipment.

The 65th Year will open September 9, 1902. Catalogues Free. Address: REV. A. MORKINS, S. J., S. C., President.



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Write for our free booklet, "How to Make Good Things to Eat."

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### Cascarets

BEST FOR THE BOWELS

Genuine stamped C. C. C. Never sold in bulk. Beware of the dealer who tries to sell "something just as good."

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### HAMLIN'S WIZARD OIL

TOOTHACHE

ALL DRUGGISTS SELL IT

P. N. U. 86, '02.

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**DROPSY** NEW DISCOVERY: gives quick relief and cures worst cases. Box of testimonials and 10 days' treatment free. Dr. E. E. GREEN'S HOME, Box 2, Atlanta, Ga.

bet, the letters were perfectly intelligible.

In playing at being Robin Hood and his band, which was the chief amusement of these boys, this means of writing was of great assistance in gathering the band, and of making known to late comers the commands of their leader.

At certain rendezvous details of the plan for the day would be left, and in this way different members of the band could at any time learn where their fellows were to be found and in what they were engaged, making arrows, searching for seasoned hickory out of which to fashion new bows, or possibly, holding a tournament to prove the efficiency of the band in the use of their weapons.

The method of leaving messages by means of sticks and stones is quite simple. One afternoon of practice should perfect any boy in its use.

The alphabet is given in the diagram accompanying this article. The black line can be drawn in dirt or scratched on a boulder. Each of the crosses about this line represents a stone.

One stone placed across the line, as shown in the diagram (see the first cross at the left of the line), represents

a cent, for instance, as shown in figure. The trick is to put the money into the bottle without touching the match or bottle.

Dip your finger in water, holding it over the place where the match is bent, and allow one or two drops to fall on that point. The two sides of the angle will open slowly, allowing the money to drop into the bottle.—New York Press.

#### A Cat and Mouse Game.

The players stand hand and hand in a circle, the mouse being inside and the cat outside. They dance around, raising their arms and lowering them alternately, which gives the cat a chance to jump in at one side, while the mouse jumps out at the other. The cat is now a prisoner and goes round "miau-mia" but as the dance continues she seizes him and chases the mouse, who darts in to save herself. If she gets in by herself, the cat pays a forfeit, but if puss gets in also it is the mouse who has to suffer for it.

#### Disposing of Sewage.

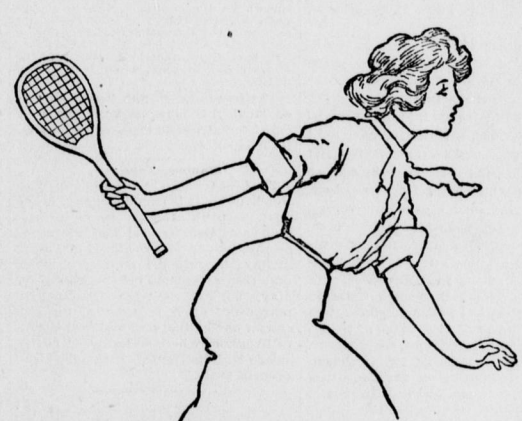
Plants for the destruction of sewage by cremation are now operated in ninety-seven cities of the United States.

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The Five-Cent packet is enough for an ordinary occasion. The family bottle, 60 cents, contains a supply for a year.



THIS IS A TYPE of the bright, up-to-date girl who is not afraid of sun, wind or weather, but relies on CUTICURA SOAP assisted by CUTICURA OINTMENT to preserve, purify and beautify her skin, scalp, hair and hands, and to protect her from irritations of the skin, heat rash, sunburn, bites and stings of insects, lameness and soreness incidental to outdoor sports.

Much that all should know about the skin, scalp, and hair is told in the circular with CUTICURA SOAP.