



Convinced that highway advertising signs detract from the natural beauty of the great routes of travel of the Pacific Coast, this Company has decided that it will erect no more such signs and that it will immediately remove all of its signs of this nature now standing. Hereafter the Company will confine its use of signs to commercial locations.

The Company feels that the splendid scenery so characteristic of nearly all of the highways of California, Oregon, Washington, Nevada & Arizona should be unmarred, and on that account is willing to sacrifice the advertising value of the signs.

STANDARD OIL COMPANY  
(California)

THE FAMOUS



CHEVROLET  
CAR

SOLD BY  
**Hanson & Maulding Motor Co.**  
(Successors to Earl Motor Company)

ALL KINDS OF REPAIR WORK  
SKILLFULLY DONE AND GUARANTEED. GIVE US A TRIAL WHEN IN TOWN.

Sunoco Oil Used Cars

Say It With Printer's Ink

### The Thrifty Man Buys in the Best Market!

The thrifty man when making a trip will USE THE TRAIN because:

He can save money by purchasing a round-trip ticket at reduced fare.

He will measure in dollars and cents the safety of the train as well as the comforts it provides.

He will spend his money where he knows his home town will get the greatest benefit—with the railroad—a big factor in the development of his community.

He will capitalize on the fact that the train will run regardless of unfavorable weather conditions and get him to his destination safely.

Be a thrifty traveler and ride the train

For any railroad information call on your ticket agent—he will gladly assist you in every way possible.

JOHN M. SCOTT  
Asst. Passenger Traffic Manager  
Portland, Oregon

Southern Pacific Lines

nr13-20

### America's Marvels NATURAL AND OTHERWISE

By T. T. Maxey

#### WYANDOTTE CAVE

The demand for gunpowder during the war of 1812 was so pressing that large quantities of the nitrous earth in the caverns of the bluffs along the Ohio river in Indiana and Ohio were used for manufacturing saltpeter.

One cave was so productive that it fell heir to the name Indiana Saltpeter Cave. Later this was changed to Wyandotte Cave. After the war the manufacture of saltpeter became unprofitable. Little attention was paid to this cave until it was noted that cattle were fond of licking the walls and floor. Investigation showed that a frosting of natural epsom salts covered extensive areas in this underground wonderland. Also, that when removed, this frosting rapidly reappeared. Sulphate of lime, plaster of paris, and other salts were found here. Subsequent explorations brought to light the astonishing fact that in size this cave all but rivaled the Mammoth Cave of Kentucky.

The outstanding characteristics of Wyandotte Cave, in which it is said to excel all other American caves, are the unusual bigness of its corridors and vaulted chambers, unbelievable quantities of fallen rock, and the massiveness of its stone columns.

The "Pillar," upwards of a mile from the entrance, a magnificent column 25 feet tall and 15 feet through, is one of the show places. Another spectacular formation, Columbian Arch, is an almost perfect tunnel, half circle in shape, and 75 feet long. Near one end is a "chunk" of limestone, estimated to weigh more than 500 tons, which loosened and dropped from overhead no one knows how long ago.

The Senate Chamber measures 150 by 600 feet, its terraced sides of limestone culminating in a great dome. From the center of this room there rises a great pile of rock. From the top of this rock pile an enormous fluted column of satin spar extends to the roof above. Almost a perfect circle in shape, 71 feet around, this mastodontic pillar is said to exceed in size any like formation in any cave in the world.

Certain sightless animals make their home in this cave. Thousands of bats which may be observed hanging head down from the roof, make their winter homes in Odd Fellows Hall. This great chamber is 90 feet wide, 210 feet long, and 65 feet high.

Wyandotte Cave, formed among the rugged hills in Crawford county, is near the point where the Blue river flows into the Ohio.

(© 1923, Western Newspaper Union.)

### America's Marvels NATURAL AND OTHERWISE

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#### THE GRASSHOPPER GLACIER

Near the ancient town of Cooke City, Mont., northeast of Yellowstone park, there is an immense glacier or ice field. This glacier is composed of thousands of strata. These strata, or layers of ice, are filled with a species of insect, locally referred to as "grasshopper" for want of a better name, and now extinct.

The scientific explanation of this peculiar phenomena is that, no one knows how long ago, this section of the country was visited by a plague of these insects; that while flying over the mountains of the Bear Tooth range, in what is now known as the Bear Tooth National forest, they were caught in snowstorms, carried down to earth and died. The passage of these swarms of insects continued at intervals year after year. Winter after winter, millions upon millions of these insects were caught in the snowstorms and perished.

This glacier is approximately one mile wide and upwards of half a mile long. Because of the fact that it lies in a rock-rimmed, bowl-shaped space on the shoulder of a mountain, at an elevation of about 11,500 feet above sea level, no one can accurately determine just how thick it is. Its depth may be as great as 1,000 feet.

The layers of ice which make up this glacier are alternately light and dark in color. This, it is thought, is accounted for by the fact that each year the snow which fell during the period after the flights had ceased, being pure, containing no insects, fell, froze and formed a "light" strata, whereas the snow which formed the succeeding strata, fell during one of these insect flights, contained countless numbers of their carcasses and formed a "dark" strata.

Certain it is that there is not a similar spectacle in the known world.

(© 1923, Western Newspaper Union.)

#### Safety First.

Mrs. Knagg—Lots of better men than you have hinted that they'd have been glad to marry me if I hadn't taken you.

Her Husband—I notice they never even hinted it till after I married you.

#### Avoiding the Trap.

"You've known her since she was a little girl, haven't you?"

"Yes."

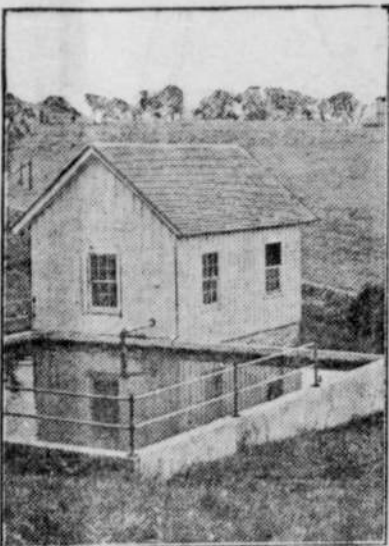
"How old would you say she is?"

"My dear, I can't tell you exactly, but I'm sure she can't be a day over twenty-two."

### Spring House on Farm Has Many Advantages

Milk Cans Can Be Kept Cool by Flowing Water.

Any farmer who is so fortunate as to have a flowing spring on his place should be interested in the arrangements of the spring house and water reservoir shown in the photograph. The interior of the spring house is provided with a concrete floor and a smaller concrete tank in which milk cans can be partially submerged and kept cool by the flowing water. Since impermeability is one of the qualifications of a water tank, it is desirable to make the concrete mixture for the tank rather dense. A 1-1/2-3 mixture of cement, sand and pebbles or broken stone is recommended. The construction of the outdoor reservoir is not a difficult matter. The walls



An Attractive Spring House.

are cast monolithic in form, the footing having been provided at a depth of 1 1/2 feet below the bottom of the tank. The walls are made approximately 12 inches thick at the bottom tapering to 8 or 10 inches at the top. After the walls are finished the floor of the tank is laid; this is made about four inches thick and the mixture is the same as for the walls.

In order to provide a waterproof joint between the floor and the walls a narrow opening is left between the two surfaces which is filled with melted asphalt.

In the construction of any kind of tank it is usually necessary to incorporate a certain amount of reinforcement in the concrete, especially at the corners; three-eighths to one-half inch round or square bars serve this purpose admirably.

### Low Egg Production Is Caused by Broody Hens

One cause for low egg production in the average flock during the summer months is the fact that the broody hen is not quickly "broken up" or gotten back to laying.

According to G. A. Schmidt of the Colorado Agricultural college, careful records have shown that the average broody hen, if placed in a broody coop the first day she goes broody, will lay again in ten days.

If she is allowed to stay broody ten days and then put in a broody coop, it will be 25 days before she will commence laying. If allowed to stay broody 21 days, it will be 35 days before she will lay.

It is therefore essential to "break up" the broody hen the first day she shows symptoms of broodiness.

The most efficient way to "break up" broodiness is to put the hens in a goody broody coop. A broody coop is nothing but a slatlike coop made out of lath in such a way that a space equal to the width of a lath is left between the laths on the four sides and bottom.

This coop should be raised several feet from the ground and placed in a shady place where the broody hens can see the rest of the flock.

Feed and water the broody hens and after four days release them. Generally this treatment is sufficient. If, however, any hen wants to set again, put her back in the coop for two more days.

This treatment will not retard the formation of eggs and everywhere has proved most satisfactory.

### Fertilizer Combination to Produce Large Yield

Manure, lime, and rock phosphate compose the fertilizer combination that has produced the largest yield of red clover in the fertilizer experiments conducted by the Iowa Agricultural Experiment station at the agronomy farm at Ames.

The plots which received this treatment produced 5,100 pounds of hay to the acre. A treatment of manure, limestone and bone meal produced 4,500 pounds to the acre and manure, lime and acid phosphate 3,900 pounds. The plots which received manure, lime and a 2-12-2 complete commercial fertilizer gave a yield of 3,700 pounds.

### Attention Required by Sow Before She Farrows

Four or five days before a sow is due to farrow (always keep a record of date of breeding) separate her from the rest of the herd, put her in the farrowing pen so that she will become accustomed to it before farrowing; allow her exercise daily, and be sure that the bowels are in a laxative condition. Some bran and oil meal in a slop as part of her ration will aid.

## The Reader Buys What He Reads About— Every Reader Is a Buyer

¶ When he sees in a store an article which he has read about it is familiar, friendly—he is half sold already.

¶ The dealer likes to sell advertised goods—because they're easier to sell. No costly waste of time and sales effort in telling the customer about them.

¶ If the dealer can sell advertised goods easier because his customers have read about them, it stands to reason that he can sell other goods easier if he describes them to the readers of his trade territory.

#### Mother Pines for Son.

A mother's life is slowly ebbing away and it is only a question of how long she will live without getting some idea of the whereabouts of her 15-year-old son, according to a letter received from Thomas Foley, of New York city, who says his son, Thomas (Bud) Foley, has been missing from home since January 2 of this year.

Mr. Foley writes that he has traveled 12,000 miles on false clues in different sections of the United States and Canada and is now seeking the aid of the newspapers in hopes of locating the boy who left a home of plenty and is breaking his mother's heart by his absence.

The boy is described as follows: Age, 15 years (looks 17); height, 5 feet 6 1/2 inches; weight, 140 pounds; eyes, gray; complexion, light; hair, light; nose, very slight break; born in New York; wore dark mixed suit, light tan overcoat, tan cap, tan shoes; student at De La Salle institute; expert chauffeur.

The father asks anyone knowing of the whereabouts of the boy to wire him at 84 Newton avenue, Astoria, Long Island, New York city. A reward of \$100 is offered.

If we haven't exactly what you want—or can't produce it—if it is anything in the printing line—we can get it for you. **xxx**

**Why Mr. N. Windsor (R. I.) Put Up with Rats for Years**  
"Years ago I got some rat poison, which nearly killed our fine watch dog. We put up with rats until a friend told me about Rat-Snap. It surely kills rats, though house pets won't touch it." Rats dry up and leave no smell. Prices, 35c, 65c, \$1.25 Sold and guaranteed by **KEM'S FOR DRUGS.**

## Something New in Picture Frames

**The Collins Photo Frame**

Beautiful, Durable, Inexpensive

Your best pictures are worth keeping. Put your photographs and enlargements in frames—it is the only way to preserve them.

Does your camera need fixing? Bring it in. We want to help you get good pictures.

Supplies Printing Developing	<b>GRAHAM'S PICTURE SHOP</b>	Framing Enlarging Tinting
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Use 3% of your gross receipts for advertising and increase the volume of your business 10%



## Office Equipment

MISCELLANEOUS LABOR-SAVING DEVICES

OFFICE CONVENIENCES

FILING CABINETS LOOSE LEAF SYSTEMS

SPECIAL RULED FORMS

Practically Anything and Everything for the Office

In response to an insistent demand, we have taken the agency for several lines of office equipment which are out of the regular line of local dealers. We are now prepared to furnish anything in office equipment not carried in the regular stock of any business house in the city. Loose leaf systems, filing systems, special ruled forms and systems go with the printing business and in the preparation of special forms and in the selection of bookkeeping systems we probably can be of much assistance to you.

**The Cottage Grove Sentinel**  
Quality Print Shop North Sixth Street