

# AID IN IRRIGATION

### Effective Work That Is Done by the Beaver.

#### Forest Rangers Have Orders to Protect the Little Animals, Which Are of Great Value in Conserving Water Supply.

The beaver is solving one of the problems which has proved most vexing to engineers since irrigation became prominent in the West, declares a writer in the Technical World Magazine. That is the problem of water supply; for while engineers can construct dams and ditches, they usually must rely upon nature to furnish the water for the project. And that is where the beaver helps—he sees to it that the supply of water is maintained.

The beaver does not intend, perhaps, to do all this; he is simply interested in securing a lake in which to live. But while he serves his own ends up in the mountains, he also impounds enough water to insure a constant supply for irrigation projects, and that is why he has won governmental favor. Officers of the forest service, who are doing all in their power to protect the beavers, and scientists of the geological survey, who have studied the work of the animals, say there is no doubt but that these beaver lakes will be of great practical value.

A typical case is that of the Rio San Antonio on the Carson National forest in New Mexico. This river flows through a wide fertile valley, which has been but partly taken up by homesteaders. At its very source, as the site had been chosen by a trained engineer, a large beaver colony has built its dams and impounded enough water to irrigate several thousand acres.

Rincon de Lagunitas (corner of little lakes), the Mexicans call this spot, which is unique in several ways. It is an old glacial cirque, cut into the top of the range as though with a great curved spade, leaving a wall of white cliff, tipped with spruce forest. Within this natural amphitheater, containing perhaps a section of land, are numerous rounded, grassy knolls of glacial drift, with scattered clumps of spruce and aspen among them. A dozen hills, headwaters of the Rio San Antonio, rise here.

It is an ideal stronghold for the beavers. None of the streams is more than a foot wide, but the beavers seem to prefer these rills to the larger streams lower down. The groves supply abundant food and building material. The aspen bark seems to be the beavers' staple grocery, while all of his building is done with aspen timber from which the last shred of bark has been removed. Nothing is wasted, and that is a point in his favor when his work is compared with that of humans.

Three years ago there were half a dozen ponds, the largest perhaps twenty feet wide, in the Rincon. Last summer the change was almost incredible.

A chain of lakes had been created in this land of little water. The largest was about two hundred yards in length and half as wide, while there were

twenty smaller ones, reaching a mile or more down the mountain side in a series of silver terraces, gleaming through the trees.

These ponds are the home of several hundred beavers, and the whole region bears striking evidence of their industry and engineering ability. The dams which created the lakes are from ten to fifty yards long, often six or eight feet high, perfectly curved in form, with a spillway in the exact middle of each. Near the dams are tracts, sometimes half an acre in extent, from which all the timber has been cut for building purposes. Trees 18 inches in diameter, which is maximum size for the quaking-aspen, are frequently cut.

How logs of this size are moved by the beaver is a mystery. Some of them which fall in awkward positions are never used, but the proportion of timber wasted is very small. The beavers seldom cut spruce or other trees of timber value in their lumbering operations.

In each pond is at least one lodge made of peeled aspen-timber cemented with mud, with submerged entrance. Besides the lodges, all of the ponds are equipped with "emergency exits," in the form of holes in the bank. In a level beach, a canal several feet long often leads to the submerged door of one of these holes, which the beavers seem to use for refuge when unable to reach a lodge. Some of the dams and lodges are built fifty or sixty feet from timber, and in such cases the beavers have made smooth paths, or skiways, over which they evidently dragged their material from the woods to the water.

The beaver apparently never rests. Like a good mechanic, he is always tinkering. Fresh yellow chips are scattered about all of the ponds, and the water is almost always muddy from his work.

# FARM STOCK

### SAVES EFFORT MOVING HOGS

#### "Live-Pork Wagon" is Extremely Useful in Handling Swine—Inexpensive and Easily Made.

This drawing shows the plan of my "live-pork wagon." That it is handy and useful is demonstrated by the big demand there is for it among my neighbors, writes C. H. Patridge of Valley county, Nebraska, in Farmers Mail and Breeze. I made it out of an old buggy that had been discarded. The floor of the crate is made of two 1 by 5-inch boards 5 feet long. The



"Live-Pork Wagon."

standards are 2 by 2's and wagon bed straps are used for braces, just as in a wagon bed. The top and front end are made of 1 by 2-inch strips. The end gate is made of rough lumber with heavy strips to prevent breaking when loading heavy hogs. Two heavy strap hinges are fastened at the bottom, being bolted on to give strength. Two catches at the top hold the gate up when closed. Once a hog is half way in you can grab up the end of the gate and in he goes.

The bottom should not be more than 10 inches above the ground. The front axle may be used as it comes from the buggy, the crate being narrow and set back far enough to permit turning. A drop axle is used for the rear wheels. This wagon hauls Duroc-Jerseys better than any other breed of hogs.

# KEEPING HOG LOTS SANITARY

#### Ounce of Prevention is Worth More Than Pound of Cure—Provide Clean, Wholesome Food.

Never wait until your hogs begin getting sick before you begin to clean up and improve the sanitary condition of their quarters. In this matter an ounce of prevention is worth more than a pound of cure. The plan should be to prevent by cleanliness, good sanitation and plenty of pure, fresh water, your hogs from getting sick, and it can be done by the proper kind of treatment.

Give your hogs plenty of clean pastures where there are no longer hog disease germs in the soil, and provide clean, wholesome food; scald, disinfect and clean the troughs and swill barrels while the hogs have good health, and don't wait until they are sick to begin it. This should be done frequently during warm weather especially.

And above all things, don't compel your hogs to lie in their own filth, or any other filth for that matter, for it breeds disease. Clean quarters, clean food, clean water, pure air are the best preventives against hog cholera.

# CATTLE KILLED BY LIGHTNING

#### Ground Wires Attached to Fences Will Afford Protection During Sudden Electrical Storms.

During the season of severe thunder showers many cattle are killed by lightning. Why not reduce the risk? Briefly, here is what one interested party recommends as a step toward protecting animals in pasture during sudden electrical storms:

Ground pasture fences at least every 20 rods.

Use No. 9 wire. Staple it down the post across the strands of fence wire. Extend the wire into the ground about three feet, and allow it to project a few inches above the top of the post.

# LIVE STOCK NOTES

- Keep young pigs inside during a rainstorm.
- Keep the best ewe lambs to re-enforce the flock.
- Lambs will begin to eat grain at about two weeks old.
- Protect your farm from hog cholera by keeping it clean.
- Do not allow any check in the growth of young pigs.
- A pig will always keep its bed clean if it has any choice at all.
- The 300-pound pig at eight months is masterwork of the feeder.
- How about an alfalfa pasture with shade and fresh water for your hogs?
- The sanitary concrete hog wallow has found a permanent place on many farms.
- The essential point in using pure-bred draft mares on the farm is intelligent management.
- It is a good thing to allow all the exercise and fresh air possible to the mares that are with foal.
- There will be no cases of thumps among the pigs if they are kept busy and in the open.
- Indigestible feeds, such as bran and coabmeal, should be kept away from the pig's trough.
- Keeping the shifting winds off the pigs in their nests is shutting the profits inside the hog house.
- The fall pigs will require more attention than their spring brothers and sisters, but they are worth it.

# Cold Douches.

President Wilson tells of a famous Princeton professor who supplied the pupil one Sunday in the hamlet of Penn's Neck.

He preached his finest sermon and trilled the congregation in the little country church as it had never been thrilled before. At the close of the service he was feeling particularly well satisfied with himself when the leading elder approached and asked him:

"Well, doctor, what's the damage?"

Sweden has smelted iron for more than 20 centuries, and some of the ancient furnaces still are in existence.

# Didn't Work Both Ways.

The timid man was about to pay for his luncheon of "ham and egg" when the following conversation took place:

"Pardon me, sir, but our rules forbid us to receive bent or battered coins from customers."

"But I received that very coin here yesterday by way of change."

"Very likely, sir. We have no rule against giving bent or battered coins to customers."

Salt Lake City stands third in the United States in amount per capita expended on its public schools.

Every time some people bury the hatchet they dig up a hammer.

# SAFETY IN USE OF ASBESTOS

#### Material Chiefly Valuable for Protection Against Fire, But Has Many Other Good Qualities.

Asbestos is a potential lifesaver. We do not all realize, perhaps, that the fireproof theater curtain is made of asbestos, which is rock matter, but nevertheless almost as soft and pliable as cotton or woolen fabric.

Asbestos has, of course, many other uses. Its incombustibility and its fibrous structure make it one of the most useful minerals for many and various structural purposes.

It is used in making lumber, roofing, plaster and stucco.

Houses that are built largely of asbestos afford their occupants not only complete protection from fire because it is a "non-conductor," but assure them also the comfort of freedom from extreme heat and cold.

The asbestos-producing industry of the United States is growing. For many years we have been the greatest manufacturers and users of asbestos drawing our raw material from Canada, but we are now getting some excellent fiber in our own country.

Swift Uppercut.

"I see you have your arm in a sling," said the inquisitive passenger. "Broken, isn't it?"

"Yes, sir," responded the other passenger.

"Meet with an accident?"

"No, I broke it while trying to get myself on the back of my seat."

"Great Scott! What for?"

"For minding my own business."—Ram's Horn.

He Let It Go.

Fault Finder in front of dairy restaurant—I notice the word dairy on your new sign is spelled dairy.

Proprietor—I knew it. I was going to have it changed, but the painter convinced me his way of spelling the word was more suggestive.

Fault Finder—More suggestive?

Proprietor—Yes; he said it conveyed the idea of putting things down—Judge.

Just So.

"I saw a professor of music remove 30 yards of ribbon, 14 pounds and 7 ounces from a hat."

"Enough material to trim a niece!" commented the party of the feminine part.—Louisville Courier-Journal.

If a man desires to operate in a harmless form of avian endeavor, he might as well breed pouter pigeons.

# OH! MY BACK

A stubborn backache is cause to suspect kidney trouble. When the kidneys are inflamed and swollen, stooping brings a sharp twinge in the small of the back, that almost takes the breath away. Soon there may be other symptoms; scanty, painful or too frequent urination, headaches, dizziness, or rheumatic pains. Don't wait for these troubles to become serious—use Doan's Kidney Pills at once. You'll find no better recommended remedy.

An Illinois Case

Mrs. G. A. Wilson, 706 Washington St., Waukegan, Ill., says: "I had been ailing for quite awhile from backache and kidney trouble. My back ached so severely and the kidney secretions passed too freely. I was nervous and dizzy, and I got tired and then again, cold chills came over me. I was in a bad way until I took Doan's Kidney Pills. They cured me. Well, I have felt like a different woman since."

Get Doan's Kidney Pills at Foster-Milburn Co., Buffalo, N. Y.

# Don't Poison Baby.

Forty years ago almost every mother thought her child must have PAREGORIC or laudanum to make it sleep. These drugs will produce sleep, and a FEW DROPS TOO MANY will produce the SLEEP FROM WHICH THERE IS NO WAKING. Many are the children who have been killed or whose health has been ruined by paregoric, laudanum and morphine, each of which is a narcotic product of opium. Druggists are prohibited from selling either of the narcotics named to children at all, or to anybody without labelling them "poison." The definition of "narcotic" is: "A medicine which relieves pain and produces sleep, but which in poisonous doses produces stupor, coma, convulsions and death." The taint and smell of medicines containing opium are disguised, and sold under the names of "Drops," "Cordials," "Soothing Syrup," etc. You should not permit any medicine to be given to your children without your or your physician's knowledge of what it is composed. CASTORIA DOES NOT CONTAIN NARCOTICS, if it bears the signature of Chas. H. Fletcher.

Genial Castoria always bears the signature of *Chas. H. Fletcher*

# Warners Safe Remedies

Warners Safe Remedies have proven their worth as superior medicines by more than thirty-five years' world-wide use. They have given remarkable results in the treatment of numberless severe and almost helpless cases.

The words of praise from the many who have been benefited by their use prove their great value.

Warners' Safe Remedies are carefully prepared and absolutely pure.

Each for a Purpose

- Warners' Safe Laxer and Liver Remedy, 50c and \$1.25
- Warners' Safe Rheumatism Remedy, \$1.25
- Warners' Safe Diabetes Remedy, 50c and \$1.25
- Warners' Safe Nerve, 50c and \$1.25
- Warners' Safe Pills, (Cathartics) 25c

At all druggists, or sent direct postpaid on receipt of price. Free Sample of any one Remedy sent. Give name of this paper when writing.

WARNERS' SAFE REMEDIES CO., Rochester, N. Y.

# YARB DOCTAH WAS TO BLAME

#### Second Mistake That Medical Adviser of Negress Had on Record Against Him.

Guy Hoerner, South Philadelphia apothecary, was urbanely dispensing a postal card to a "flapper" when an Amazonian negress in a calico wrapper of morning-glory pattern entered and bulked herself against the counter.

"I wants a 'description' filled foh half-a-dozen five-ounce quinine pills," she announced.

"Why, woman, that pill would paralyze an ox; what's the matter with you?" asked the astonished chemist.

"Nothin' do matter wil me, she answered. "It's foh mah daughter, and she's someth' heft. Gladys, she takes aftah me. Mah husband's bench-kneed and insignificant."

"But, quinine comes in grains, not ounces."

"Well," was the scornful rejoinder, "it's jest another mistake of dat fool yarb doctah. Last yeah, when she had got a misery in her stomach he got her to swallow a spoonful of bird shot; said her lights was riz and she had to weight 'em down."

# 5 Women Avoid Operations

For years we have been stating in the newspapers of the country that a great many women have escaped serious operations by taking Lydia E. Pinkham's Vegetable Compound, and it is true.

We are permitted to publish in this announcement extracts from the letters of five women. All have been recently received unsolicited. Could any evidence be more convincing?

1. Hopewell, Mo.—"I had pains in both sides and such a soreness I could scarcely straighten up at times. My back ached and I was so nervous I could not sleep, and I thought I never would be any better until I submitted to an operation, but I commenced taking Lydia E. Pinkham's Vegetable Compound and soon felt like a new woman."—Mrs. HAYWARD BOWERS, Hodgdon, Mo.
2. Shelbyville, Ky.—"I suffered from a severe female trouble. My right side hurt me badly—it was finally decided that I must be operated upon. When my husband learned this he got a little of Lydia E. Pinkham's Vegetable Compound for me, and after taking it a few days I got better and continued to improve until I am now well."—Mrs. MOLLIE SMITH, R.F.D., Shelbyville, Ky.
3. Hanover, Pa.—"The doctor advised a severe operation, but my husband got me Lydia E. Pinkham's Vegetable Compound and I experienced great relief in a short time. Now I feel like a new person and can do a hard day's work and not mind it."—Mrs. ADA WILLY, 303 Walnut St., Hanover, Pa.
4. Decatur, Ill.—"I was sick in bed and three of the best physicians said I would have to be taken to the hospital for an operation as I had something growing in my left side. I refused to submit to the operation and took Lydia E. Pinkham's Vegetable Compound—and it worked a miracle in my case, and I tell other women what it has done for me."—Mrs. LUCIA A. GRISWOLD, 2437 East William Street, Decatur, Ill.
5. Cleveland, Ohio.—"I was very irregular and for several years my side pained me so that I expected to have to undergo an operation. Doctors said they knew of nothing that would help me. I took Lydia E. Pinkham's Vegetable Compound and I became regular and free from pain. I am thankful for such a good medicine and will always give it the highest praise."—Mrs. C. H. GRIFFITH, 1858 Constant St., Cleveland, O.

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To Use Cuticura on Skin-Tortured Babies. Trial Free.

A hot bath with Cuticura Soap and gentle application of Cuticura Ointment at once relieve, permit rest and sleep and point to speedy healing of eczemas, rashes, itchings and irritations of infants and children even in severe cases.

Sample each free by mail with Book. Address postcard, Cuticura, Dept. XY, Boston. Sold everywhere.—Adv.

How to Clean Stone Window Sills In the Woman's Home Companion a Missouri woman told us follows how to clean stone steps or stone window sills:

"Get five cents' worth of the coarsest sandpaper and rub stone steps or stone window sills briskly until all marks are removed, then simply dust them with a duster or a rag. They will stay white much longer by using this method than scrubbing them with water. I always wear a pair of canvas gloves, as they protect the hands from any scratching."

On an Island.

"Where can I buy a souvenir postcard?"

"You can't buy one on this island. This island belongs to a man who positively won't allow 'em to be sold."

"Hum," said the summer visitor.

"I see I am going to like this place even more than I expected."—Louisville Courier-Journal.

Tame Description.

"I saw your husband at the ball game yesterday."

"What was he doing?"

"Why, he seemed to be an interested spectator."

"That doesn't describe my husband. He's a cyclonic rooster."

One of the best grades of Italian cheese is sold only after it has been seasoned for at least four years.

Some men are never neutral. They are either kicking or being kicked.

# To Drive Out Malaria

And Build Up The System Take The Old Standard GROVE'S TASTELESS CHILL TONIC. You know what you are taking, as the formula is printed on every label, showing it is Quinine and Iron in a tasteful form. The Quinine drives out malaria, the Iron builds up the system. 50 cents. Adv.

A Tighting Submarine.

"I hear you've caught a 40-pound catfish in your gill-net."

"We did."

"Make much of a fuss?"

"Tore the net all to shreds. For a while we thought we had snared a submarine."—Kansas City Journal.

Strangely enough, there is no similarity between our mansions in the sky and our castles in the air.

Philadelphia has more divorces in proportion to population than any other city in the East.

Good resolutions are inexpensive, but they are hard to keep.



# At Less Cost—

There's more nutritive value that the system will absorb in Grape-Nuts than in either meat or bread.

A remarkable fact.

Weight for weight, a package of Grape-Nuts supplies one-third more nourishment than a roast of beef and at about half the cost. A roast of beef is about twenty per cent waste and there is a shrinkage in cooking. Grape-Nuts comes ready cooked—and not a crumb need be wasted.

Think it over!

Then there's bread—white bread lacks certain elements essential to building brain and body. Why? Because in milling white flour, four-fifths of the precious mineral content (all important for health and life) is thrown out with the brancoat of wheat, to make the flour look white and pretty.

**Grape-Nuts**

**FOOD**

not only supplies all the brain- and bone-building, nerve- and muscle-making phosphates of the wheat, but all the rich nutriment of malted barley.

Besides, Grape-Nuts is easily digested—generally in about an hour—white bread and beef require about 2 1/2 hours.

Grape-Nuts comes in germ-proof, moisture-proof packages—ready to serve with cream or milk—a delicious ration, economical and highly nourishing.

# "There's a Reason"

Sold by Grocers everywhere.

# 10c Worth of DU PONT

### Will Clear \$1.00 Worth of Land

Get rid of the stumps and grow big crops on cleared land. Now is the time to clean up your farm while products bring high prices. Blasting is quickest, cheapest and easiest with Low Freezing Du Pont Explosives. They work in cold weather.

Write for Free Handbook of Explosives No. 69F, and name of nearest dealer.

**DU PONT POWDER COMPANY**  
WILMINGTON DELAWARE

# You Look Prematurely Old

#### Because of those ugly, grizzly, gray hairs. Use "LA OROLE" HAIR DRESSING. PRICE, \$1.00.

Write to LYDIA E. PINKHAM MEDICINE CO. (CONFIDENTIAL) LYNN, MASS., for advice. Your letter will be opened, read and answered by a woman and held in strict confidence.

# PERFECT HEALTH.

#### Tutt's Pills

Remedy for sick headache, constipation.

AGENTS: E. J. Connelley, 1000 Broadway, New York, N. Y.

W. N. U., ST. LOUIS, MO. 38-1915.

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