

### Back Lame and Achy?

There's little peace when your kidneys are weak and while at first there may be nothing more serious than dull backache, sharp, stabbing pains, headaches, dizzy spells and kidney irregularities, you must act quickly to avoid the more serious trouble, dropsy, gravel, heart disease, Bright's disease. Use Doan's Kidney Pills, the remedy that is a world-wide recommendation everywhere by grateful users.

### An Arkansas Case

"I have a picture of a man who says: 'About four years ago I was troubled by disordered kidneys and a dull, steady ache in my back. The trouble got so bad I couldn't lift anything or even get up in bed. On a friend's advice I took Doan's Kidney Pills and the pain went right away. My back hasn't troubled me to any extent since.'"

Get Doan's at Any Store, 60c a Box  
**DOAN'S KIDNEY PILLS**  
FOSTER-MILBURN CO., BUFFALO, N. Y.

### WIZARD BRAND

## PHOSPHATE FERTILIZER

DON'T BUY YOUR FERTILIZER TILL YOU KNOW ALL ABOUT WIZARD BRAND—WRITE TODAY FOR CIRCULAR AND PRICES.

THE PULVERIZED MANURE CO., 715 STOCK YARDS, KANSAS CITY, MO.

### An Independent Business is waiting for YOU

If you can intelligently represent a Kor-Ker Tire Treatment

Seals Punctures. Stops Slow Leaks. Keeps tires at normal inflation. Preserves rubber. Nationally advertised. There is a big liberal profit for you. Close friends and you. No competition. Write for details. Car owners prefer Kor-Ker to any other tire treatment.

ALCENO MFG CO. NEWARK, N. J.

## Cuticura Soap

### Ideal For Baby's Skin

Instinct of the Profession. According to his mother, William, just turned four, is a prospective physician. The following conversation recently occurred between them:

"Mumver, may I be two doctors?"  
"I don't see how you could be, son."  
"May I have two automobiles?"  
"Maybe so."  
"May I have a knife?"  
"What do you want with a knife, son?"  
"I want to cut into folks to see if they are sick."—Indianapolis News.

### Catarrhal Deafness Cannot Be Cured

By local applications as they cannot reach the diseased portion of the ear. There is only one way to cure Catarrhal Deafness, and that is by a constitutional remedy. HALL'S CATARRH MEDICINE acts through the blood on the mucous surfaces of the system. Catarrhal Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube is inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed, deafness is the result. Unless the inflammation can be removed and this tube restored to its normal condition, hearing may be destroyed forever. Many cases of Deafness are caused by Catarrh, which is an inflamed condition of the mucous surfaces.

ONE HUNDRED DOLLARS for any case of Catarrhal Deafness that cannot be cured by HALL'S CATARRH MEDICINE.

All Druggists Sell. Circulars free.  
F. J. Cheney & Co., Toledo, Ohio.

### Inner Requirements.

"Mister, have yer got any ol' dudger don't want?"  
"No; but I've an old automobile you may have."  
"Thanks, but I got enough trouble supplyin' my own innards without beggin' gasoline from door to door."—Boston Transcript.

### RECIPE FOR GRAY HAIR.

To half pint of water add 1 oz. Bay Rum, a small box of Barbo Compound, and 1/2 oz. of glycerine. Any druggist can put this up or you can mix it at home at very little cost. Full directions for making and use come in each box of Barbo Compound. It will gradually darken streaked, faded gray hair, and make it soft and glossy. It will not color the scalp, is not sticky or greasy, and does not rub off. Adv.

### Lucrative.

"Papa, why are they always digging up New York?"  
"Because there's money in it."—Litt.

### THAT GRIM WHITE SPECTRE,

Pneumonia, follows on the heels of a neglected cough or cold. Delay no longer. Take Mansfield's Cough Balsam. Price 50c and \$1.00.—Adv.

It doesn't pay to hunko a woman whose only asset is a gift of gab.

Fires Cured in 6 to 14 Days  
Druggists refund money if PAIN EXTINGUISHER fails to cure itching, blind, bleeding, protruding piles. First application gives relief. 60c.

It's love that makes the postman go around with a lot of silly letters.

Millions of particular women now use and recommend Red Cross Ball Blue. All grocers. Adv.

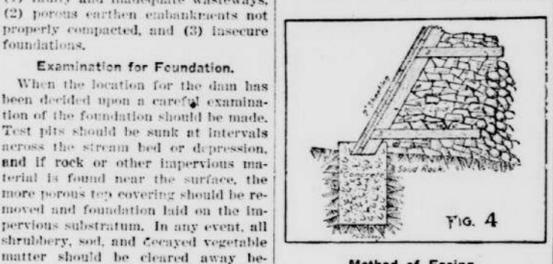
### MURINE Granulated Eyelids.

Sore Eyes, Eyes Inflamed by Sun, Dust and Wind Quickly Cured by Murine. Try it in your Eyes and in Baby's Eyes. No Smearing. Just Eyes Comfort.

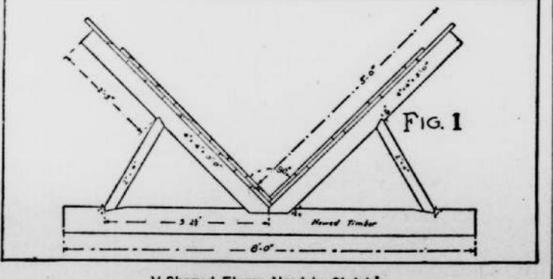
Write Now Remedy At Your Druggist's or by Air Mail, in Tube Size. For Book of the Eye—Free. Ask Murine Eye Remedy Co., Chicago.

## HOW TO CONSTRUCT RESERVOIRS

(Prepared by the United States Department of Agriculture.)  
Reservoirs built in the beds of streams or other depressions are used mainly for irrigation purposes. The dam may be of earth, loose rock, timber, concrete, or masonry, or combinations of two or more of these. However, since on the large majority of sites earth is the most abundant and cheapest material available, it has been used chiefly. The percentage of failure of dams of this type has been large. The main causes have been (1) faulty and inadequate wasteways, (2) porous earthen embankments not properly compacted, and (3) insecure foundations.



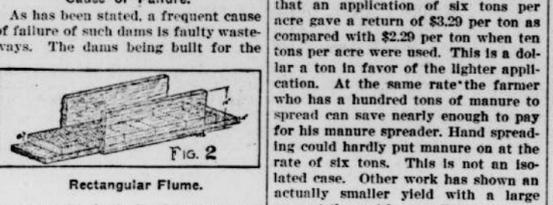
also more compact and water-tight than those built by ordinary methods. Unsuitable to Retain Water. Dams built of loose rock without any cementing material usually have sufficient weight to withstand water pressure but the ease with which water can percolate through such structures renders them unsuitable to retain water. This defect is overcome in various ways of which two will be



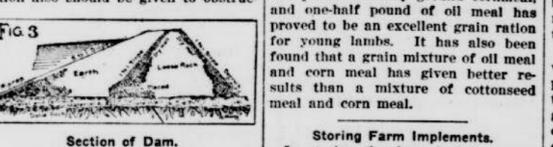
described here briefly. The usual way of making loose rock dams water-tight is to place earth in front in the manner indicated in Fig. 3. The same care should be taken in placing this earth as has been recommended for earthen dams proper and the cut-off wall of concrete placed along the upper toe of the rock slope usually is a necessary part of such combination structures. Another way of making loose rock dams water-tight is to line the front face with timber in some such way as that shown in Fig. 4.

**Packing Materials.** In building a reservoir embankment of earth many farmers and not a few engineers fail to understand the difference between an embankment capable of withstanding a load such as is placed upon it by the passage of a locomotive and one compact and stable enough to hold water. In highway and railroad fills little, if any, attention is paid to packing materials, but in the case of earth fills to retain water, packing is necessary. Experience has shown that one of the best ways to pack ordinary dirt which does not contain too much clay is to dump it into water and let nature do the packing. When this method is not feasible the earth should be placed on the embankment in thin layers and each layer moistened and rolled or otherwise compacted. In some cases the earth can be moistened before it is removed from its natural site.

**Cause of Failure.** As has been stated, a frequent cause of failure of such dams is faulty wasteways. The dams being built for the most part in the beds of streams and in the direct line of flood water, are subjected at times to high water which may carry floating driftwood or other debris. The overflow dam is designed to withstand such severe tests, but the dam considered here is not of this type. It is intended only to impound water to a certain safe height and to by-pass all surplus waters through the wasteway. This throws a heavy burden upon this structure in times of flood, and it should be of such strength and capacity as to perform its part without danger to the dam. In making provision for a wasteway it should be borne in mind that a flood may occur when the reservoir is full, so that the entire flow of the stream must pass through the wasteway. Consideration also should be given to obstructions to the flow of water caused by driftwood and clogging by fish screens. Such features of this type of reservoir as inlet and outlet pipes, slope protection and the like have been discussed in Farmers' Bulletin No. 828, Commonly Used Method.



In the early days of mining in California, someone evolved the idea of washing down the gold-bearing sand by means of powerful streams of water directed against the banks and hillsides. This practice has been improved and extended and now is a commonly used method of building earthen embankments and of loosening and transferring earthy material for other purposes. In making use of this method an ample supply of water is necessary. What is called the "cutting stream" is under high pressure from 60 to 100 pounds per square inch. The pressure may be obtained by gravity fall or by pumping, and the water is conveyed to the material to be excavated in a pressure pipe of suitable diameter. The end of the pressure pipe terminates in a giant from which a stream is directed against the bank of dirt. A large stream of water, but under little or no pressure,



then is added to the former stream to carry the material loosened by the giant into a flume or pipe in which it is transported to the dam. Figs. 1 and 2 show two forms of wooden flume used for this purpose. The grade on which they are laid should be as steep as practicable, and never less than about five per cent. Under favorable conditions material can be placed in a dam by this process at a lower cost per cubic yard than by the use of teams and scrapers or teams and wagons. Such embankments are

**Storing Farm Implements.** In storing the farm implements in the tool shed it will pay to arrange them in such order as will save time and effort next spring by making those first needed easily accessible.

**Avoid Frozen Silage.** There is some danger connected with the feeding of frozen silage. Cattle eating large quantities of such feed may become bloated or develop serious digestive troubles.

**Manure Supplies Fertility.** Stable manure supplies fertility, the elements nitrogen, phosphorus and potassium. But it supplies also organic material which has a physical effect upon the soil.

**The Chicken House.** If your chicken faces north board up the openings and transfer them to the south side and make them big enough to allow the sunshine to flood the floor.

**Keep Best Breeders.** Do your own weeding of the flocks and herds. Keep the best breeders for yourself.

**Importance of Skim Milk.** The demand for conservation of the more staple foods has given skim milk an importance as a human food that has not been recognized heretofore.

## IMPORTANT CROPS FOR HUMAN FOOD SUPPLY



HARVESTING PEANUTS IN THE SOUTH.

(Prepared by the United States Department of Agriculture.)  
Corn heads the list of crops commonly grown in this country in food value per acre of production. A 35-bushel crop of this cereal produces nearly 150 pounds of protein, or flesh-building material, and more than 3,000,000 units of energy. Wherever the conditions are favorable for extending the acreage of this crop it is evident that considerable addition can be made to the supply of human food by doing so. Millers should give special attention to the preparation of cornmeal of good quality, and housewives should use increased quantities of this nutritious and palatable product as a substitute for other bread cereals. It is more practicable to increase the use of cornmeal in this country than it is abroad, for our people are familiar with corn as a food, while most European peoples are not. We know how to prepare appetizing dishes from it, while they do not.

**The Sweet Potato.** Sweet potatoes stand second in energy production, but are low in protein produced per acre. The sweet potato is a southern crop, easily produced, but unfortunately a large percentage of the crop is not properly stored and as a consequence large quantities of potatoes are lost every year. However, by building storage houses and handling the potatoes as recommended in Farmers' Bulletin No. 548, the loss can be largely prevented. Growers who have good storage houses keep sweet potatoes throughout the winter for home use or for market. Our southern states should grow an abundance of this crop, the consumption of which may be made to reduce the demand for bread cereals. Where facilities for canning sweet potatoes are available a portion of the crop preserved in this manner may be made available to parts of the country where the temperature drops so low as to make the shipping of fresh sweet potatoes a precarious undertaking, and the season of their use thus may be extended throughout the year. Sweet potatoes also may be dried successfully, and recent experiments show that meal made of dried sweet potatoes may be used with wheat flour in making bread.

**The Irish Potato.** The third crop on the list is the common Irish, or white, potato. This crop can be grown in all parts of the country. Its importance does not need emphasis here. During the continuance of the present emergency special effort should be made to produce all the potatoes that are needed.

**Rye.** Rye stands next to corn in the list of cereal grains, being slightly more nutritious than wheat, but bread made from rye flour is not so acceptable to the American palate as bread made from wheat flour. It is only on sandy lands, which are better adapted to rye than wheat, and in other situations where rye is known to be a safer crop than wheat, that rye should have the preference over wheat as a farm crop intended for human food.

**Wheat.** Wheat stands second amongst the bread-making cereals in food produced per acre. Its wide climatic adaptability and the high degree of palatability of its products make it pre-eminently the bread crop of the world. In sections to which this crop is adapted it should be given precedence over all other crops except corn and potatoes (except on lands better adapted to rye than wheat), remembering, of course, the necessity of maintaining a well-balanced agriculture.

**Rice.** Rice stands very close to wheat in food produced per acre. It is probably that under present conditions a market could be found for a greatly increased output of rice. A considerable saving of valuable food could be made by marketing rice unpolished. The unpolished rice were generally available, the American people probably would consume considerably larger quantities of this valuable cereal than at present.

**The Soy Bean.** Soy beans lead all other crops in the production of digestible protein, exceeding corn in this respect by almost exactly 100 per cent. This crop deserves more attention in this country than it has yet received. There is no reasonable possibility of over-planting it. Soy-bean meal, the

residue after the oil is expressed, can be mixed with wheat flour to the extent of 30 per cent without detriment to the palatability of the product, though the effect of such bread on the digestive tract is not yet known. Dry soy beans now are being used in considerable quantity as a substitute for soy beans in canneries, with excellent results. In addition, the soy bean is an excellent forage crop for cattle and hogs. Its use for this purpose greatly reduces the necessity for the use of grain and mill products in feeding these animals. The soy bean is a legume recently introduced into this country. It requires inoculation when grown on land new to it. Many farmers have failed in their first attempts to grow this crop because they overlooked this point. It is only a question of time and attention to detail when this difficulty will be entirely overcome. Soy beans, by using suitable varieties for seed, can be grown from southern Michigan to the Gulf coast. The department of agriculture will furnish free on application full instructions concerning the culture and management of soy beans. (Farmers' Bulletin No. 372.)

**The Peanut.** Peanuts are important from the standpoint of human food available from an acre for the reason that, besides being available as a catch crop in corn, they are gaining favor as a staple crop in the sandy lands of the cotton states, especially where the cotton-boll weevil is troublesome. In many sections alternate rows of corn and peanuts give good results, particularly on semiarid lands. In the southern states, from Virginia to Florida, peanuts have long been recognized as one of the chief crops for hog-raising. The acreage for this and other purposes has increased greatly as hog raising has been introduced in the coastal-plain sections of the Southeast.

The demand for peanuts has widened greatly as a result of new methods and the product now enters into two important avenues of commerce—(1) in the form of cake or meal, after the oil is extracted, as a valuable food for live stock, and (2) as a source of valuable fat for use for cooking and other purposes. A larger acreage of this crop is to be encouraged as a means of increasing the amount of pork products in the southern states and to meet the demand for peanuts for the manufacture of peanut butter and for use in confectionaries. Recent experiments at the Texas experiment station demonstrated methods of feeding peanut meal or peanut cake to avoid the soft flesh in pork which ordinarily results from feeding the raw product. In addition to the nuts the hay is in great demand and it has a feeding value similar to that of alfalfa.

**Oats.** Because of the relatively small amount of both protein and energy in oats, it is not believed advisable to increase greatly the acreage devoted to this crop, especially where the land can be devoted to other crops.

**The Navy Bean.** The bean crop is important as a source of protein. The navy bean produces only 36 per cent as much energy but more protein per acre than corn. It can be grown also in regions poorly adapted to corn. There has been a phenomenal increase in the acreage of beans this year, probably greater than conditions warrant. There is apparently no good reason for further extension of this acreage next year.

**Cowpeas.** Although the cowpea crop is unimportant in the present connection, the fact that its seeds are highly palatable to most people and represent an important source of protein, as well as the further fact that it is widely grown in our southern states as a catch crop in corn or after winter grain, justifies reference to it here. The South devotes its energies so largely to the production of one great money crop, cotton, that any readily available source of human food should not be overlooked in that section. Special effort should be made this year to save all the cowpea seed possible.

**Buckwheat.** Buckwheat is important mainly because of the fact that it thrives on very poor land and can be planted very late in the season. The production per acre is large in comparison with that of other crops on poor land.

**Important Asset in Teams.** Size is an important asset in teams to handle heavy machinery and big loads, for power is more economically applied in large units than in small ones.

**Time to Apply Manure.** The best time to apply manure is as soon as it is made. Every day it is kept it loses something, however well it may be preserved.

**Produce Manure for Garden.** Procure all the manure possible now for next summer's garden. You can't grow good vegetables if they are starved.

**The buttermilk would be paid for by the pig with more pounds of pork.**

## Trust Me! Try Dodson's Liver Tone!

### Calomel Harms Liver and Bowels

Read my guarantee! Live your liver and bowels and get straightened up without taking sickening calomel. Don't lose a day's work!

There's no reason why a person should take sickening, salivating calomel when a few cents buys a large bottle of Dodson's Liver Tone—a perfect substitute for calomel.

It is a pleasant, vegetable liquid which will start your liver just as surely as calomel, but it doesn't make you sick and can't savorate.

Children and grown folks can take Dodson's Liver Tone, because it is perfectly harmless.

Calomel is a dangerous drug. It is mercury and attacks your bones. Take a dose of nasty calomel today and you will feel weak, sick and nauseated tomorrow. Don't lose a day's work! Take a spoonful of Dodson's Liver Tone instead and you will walk feeling great. No more bilious constipation, sluggishness, bitter coated tongue or sour stomach.

Druggist says if you don't finish Dodson's Liver Tone, because it is perfectly harmless.

Calomel is a dangerous drug. It is mercury and attacks your bones. Take a dose of nasty calomel today and you will feel weak, sick and nauseated tomorrow. Don't lose a day's work! Take a spoonful of Dodson's Liver Tone instead and you will walk feeling great. No more bilious constipation, sluggishness, bitter coated tongue or sour stomach.

Dr. Pierce's Pellets are best for biliousness and stomach. One little Pellet for a laxative, three for a cathartic.

What we call time enough always proves little enough.

### SORE THROAT

or Tonsillitis—gargle with warm, salt water then apply—

## VICK'S VAPORUB

W. N. U., LITTLE ROCK, NO. 3-1918.

**ALL MEN AT HOME SHOULD PREPARE FOR WAR**

The first test a man is put through either war or life insurance is an examination of his water. This is most essential because the kidneys play a most important part in causing premature old age and death. The more injurious the poisons passing through the kidneys the sooner comes decay—so says Dr. Pierce of Surgical Institute, Buffalo, N. Y., who further advises all people who are past thirty to preserve the vitality of the kidneys and free the blood from poisonous elements, such as uric acid—drink plenty of water—sweat some daily and take Anuric, double strength, before meals.

This Anuric is a late discovery of Dr. Pierce and is put up in tablet form, and can be obtained for 60c at almost any drug store. For that backache, lumbago, rheumatism, "rusty" joints, swollen feet or hands, due to uric acid in the blood, Anuric quickly dissolves the uric acid as hot water does sugar. Take a little Anuric before meals and live to be a hundred. Send 10 cents to Dr. Pierce for trial package of the tablets.—Adv.

Neighbors Everywhere Say the Same

Oklahoma City, Okla.—"My husband has used Dr. Pierce's Golden Medical Discovery for the lungs. Three bottles did him lots of good. I can freely recommend the Golden Medical Discovery. There is no doubt it is a great medicine."—MRS. J. MONTANO, Stock Yards Station, Rt. 4.

Dr. Pierce's Golden Medical Discovery, the herbal remedy, has had a fine reputation for the past 40 years, and is endorsed by many well-known residents of this section. Every day more and more people are coming to realize that this is a standard medicine, and is safe to take. It contains no alcohol. It is to be had, at all drug stores in the land, in either liquid or tablet form, (tablets 60c) or send 10c to Dr. Pierce, Invalids' Hotel, Buffalo, N. Y., and he will mail trial package of the tablets.—Adv.

## ECZEMA!

THIS isn't one of those fake free treatment offers you have seen so many times. We don't offer to give you something for nothing—we do guarantee that you can try this wonderful treatment, entirely at our risk, and this guarantee is backed by your local druggist.

This makes the offer one which you can absolutely depend upon, because the druggist with whom you have been trading would not stand behind the guarantee if he did not know it to be an honest and legitimate one.

Hunt's Salve, formerly called Hunt's Cure, has been sold under absolute money back guarantee for more than thirty years. It is especially compounded for the treatment of Eczema, Itch, Ring Worm, Tetter, and other itching skin diseases.

Thousands of letters testify to its curative properties. M. Timerlin, a reputable dry goods dealer in Durant, Oklahoma, says: "I suffered with Eczema for ten years, and spent \$1,000.00 for doctors' treatments, without result. One box of Hunt's Cure entirely cured me."

Don't fail to give Hunt's Salve a trial—price 75 cents, from your local druggist, or direct by mail if he does not handle it.

**A. B. RICHARDS MEDICINE CO., Sherman, Texas**

### As Age Advances the Liver Requires occasional slight stimulation.

## CARTER'S LITTLE LIVER PILLS.

correct  
CONSTIPATION

Genuine bears signature

Colorless or Pale Faces usually indicate the absence of iron in the blood, a condition which will be greatly helped by Carter's Iron Pills

### Overalls that last that's the kind made of

## Stifel's Indigo Cloth

For Men and Miss Stifel Indigo Kid Glove Finish Cloth For Women

Remember, it's the CLOTH in your overalls that gives the wear—Stifel Indigo has a 75 year reputation as the longest wear, fast color garment cloth. Miss Stifel Indigo is of the same quality as her big brother—the best woman's overall cloth made. Look for the BOOT trade mark—it's your guarantee of the genuine.

**J. L. STIFEL & SONS**  
Indigo Dyers and Printers  
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