


The High Food Value of Pure Gelatine

Gelatine does not take the place of milk, eggs or meat, but served with these foods it multiplies their power to build tissue. Delicious easily-prepared Jellies tempt the appetites, and build up the tissues of growing children and convalescents. Jellies can be served as desserts, salads, meat-loafs, or dairy-dishes

..."PURITY"...

**One Month's Good Wages Put in Florida** oyster culture WHERE United States Govt. surveyed at approximate cost of $10,000, will pay estimated income $200 per month until end of world. FULL information containing 12,000 words, sworn statements, Govt. quotations, for 10c in silver or stamps. Oyster Growers' Co-Op. Assn., St. Petersburg, Fla.


### Eagle in Danger of Extinction.

The white-headed eagle, United States national emblem and symbol of power, is threatened with extinction. Far from being the "bird of freedom," he is the victim of persecution—and in the land of his exaltation! For Alaska fixed a bounty of 50 cents upon his head, and in two years 5,600 eagles were brought low. The charge against him is eating fish and game, principally dead fish, and such prey as he obtains by right of might.


## SHE TELLS HOW SHE KEEPS HUSBAND WELL AND STRONG

### He Works on Railroad, Exposed to Weather. Never Has Cold.

### WAS OFTEN SICK, BUT NOT ANY MORE

"My family uses Hypo-Cod and I know what it will do. Our two children have been built up to find robust health with it. I have been strengthened wonderfully with it myself and my husband keeps in splendid health ever since he built himself up with it. Before he started using this tonic he was always having coughs and colds. He works outdoors and is exposed to wet, changeable weather, and really it seemed natural that he should be half-sick about all the time. He got to looking so bad, however, last winter that we were afraid he was going to have the 'Flu,' and so he took Hypo-Cod. It built him up so strong and well and knocked out the cough and cold he had so completely that he never has such troubles any more. He looks better and feels better than in a long time, he says, and it surely did build him up quick," declared Mrs. Mary Freeman, 1834 Florida Ave., Washington, D. C.

No man can do his work well if half sick. No man can ward off disease if his system is weakened and rundown. Therefore every wise wife and every mother should watch the men folks. It is as important that they be healthy and work smoothly all the year round as it is for any piece of machinery to be watched, oiled up occasionally and otherwise cared for.

Earle's Hypo-Cod is a more modern and powerful combination of well-known medicinal elements. It does its work a little quicker. It agrees with a weak stomach better and is easier to take. It is not a cure. It is a tonic. Build yourself up with it just at this season of the year and feel better, work better and keep the whole family feeling that way. Read the formula on a bottle tonight at your druggist. Take home a bottle.

Earle's Hypo-Cod is sold by all good druggists.—Adv.


### A Texas Iconoclast.

Our guess is that when the bride promises to love, honor and obey she is just as earnest as when she kisses the bridegroom's folks.—Dallas News.


**Dr. Peery's "Dead Shot"** is powerful but safe. One dose is enough to expel Worms or Tapeworm. No castor oil necessary.—Adv.


No law can do much to protect the foolish; no, nor protect the wise from the foolish.


**Chronic Constipation** is as dangerous as disagreeable. Garfield Tea cures it.—Adv.


As well eat the devil as the broth he is boiled in.


## HELP THAT ACHING BACK!

Is your back giving out? Are you tortured with backache and stabbing pains? Does any exertion leave you "all played out?" Feel you just can't keep going? Likely your kidneys are to blame. Overwork, colds, hurry and worry tend to weaken the kidneys. Backache is often the first warning. Headache and dizziness may come, too, and annoying kidney irregularities. Help the kidneys with *Doan's Kidney Pills*—the remedy recommended by thousands. *Ask your neighbor!*

### A Virginia Case



I. W. Musick, Rodefer St., Abingdon, Va., says: "There was a dull ache across my back and loins. This came as a result of disordered kidneys and for several days at a time I was too weak and ill to do my work. A friend advised me to try Doan's Kidney Pills. Since using them I have enjoyed excellent health."

Get Doan's at Any Store, 60c a Box

DOAN'S KIDNEY PILLS

FOSTER-MILBURN CO., BUFFALO, N. Y.



PARKER'S HAIR BALSAM

Removes Dandruff—Stops Hair Falling. Restores Color and Beauty to Gray and Faded Hair. 60c. and $1.00 at Druggists. Hiscox Chem. Wks. Patchogue, N. Y.

**HINDERCORNS** Removes Corns, Callouses, etc., stops all pain, ensures comfort to the feet, makes walking easy. 15c. by mail or at Druggists. Hiscox Chemical Works. Patchogue, N. Y.



Sore Loose **Bleeding Gums**

known as Pyorrhea or Riggs disease, relieved by our home remedy. Many grateful testimonials received. Money refunded if not promptly benefitted. Literature on request. Price $2.00 per bottle. Sent postpaid on receipt of price by Robt. Rose Pyorrhea Remedy, Inc., 517 Bst. Nat. Bank Bldg., Washington, D.C.


W. N. U., BALTIMORE, NO. 2-1921.

# SHOWS LATEST IN BARN BUILDING

## Design Embodies All Labor Saving Conveniences.

## COMFORT FOR HERD INSURED

### Building Has Twenty Stalls and Four Stock Pens, and Is Supplemented by Two Hollow Tile Silos.

By WILLIAM A. RADFORD.

Mr. William A. Radford will answer questions and give advice FREE OF COST on all subjects pertaining to the subject of building work on the farm, for the readers of this paper. On account of his wide experience as Editor, Author and Manufacturer, he is, without doubt, the highest authority on all these subjects. Address all inquiries to William A. Radford, No. 1827 Prairie avenue, Chicago, Ill., and only inclose two-cent stamp for reply.

During the winter months the farmer has plenty of time to shape his plans for the coming spring. He has many problems to sift over, many preparations to make, and of these none is more important than his future building plans. Perhaps he did not have enough storage space last fall to handle the unusually large crop of corn and other grains, or enough housing room for his large herd of animals. His dairy herd has increased in size, and he must find more room to house it. To him the dairy barn is the most important building of the group, and it behooves him to give it special attention and study.

He has found during the busy season, when help was so scarce, that labor-saving appliances and equipment in the dairy barn would have saved many weary hours of worry and also added to his profits. These items should also take up some of his thought.

If after a few months' study he decides to build a barn like the one shown here he is not liable to make any mistakes. For it embodies the convenience that will help to increase the productivity of the cow has been installed. Some will argue this is tremendously expensive. When the ultimate return is considered, this equipment turns out to be the most economical.

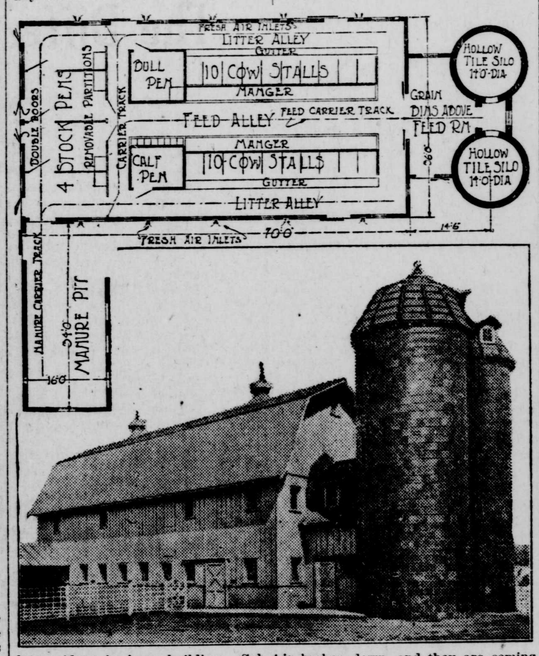
A feed carrier track is located over this feed alley and enables the hired man to haul the grain via carriers to each stall with great speed and ease. Similarly, in back of each stall over the litter alleys, are litter carrier tracks to carry the manure to the adjoining manure pit. Thus the old back-breaking wheelbarrow method has been relegated to the growing dump pile of antiquities. At the end of the cow stall are calf and bull pens, also fitted with modern barn fixtures.

Between these pens and a row of four stock pens is a cross aisle also provided with a carrier system. These stock pens have removable partitions which allow the farmer to increase the size at will. Immediately to the rear of these pens are large double sliding doors.

The rear aisle of the barn leads into the adjoining shed which covers the manure pit. The carrier track leads to the pit. This shed is 34 feet long and 16 feet wide.

Another of the important features of this building is the ventilating system. This consists of foul-air flues, installed at various intervals around the barn to draw off the foul air. Modern ventilators on the roof provide a continual source of fresh air which is essential for healthy animals and profitable production. Lightning rods placed at intervals along the roof protect the barn against the fire menace.

Fortified with a dairy barn of this type, a farmer can consider himself very fortunate. It will be an invaluable asset because it accomplishes two important results, increased milk production and increased satisfaction among the hired help, which obviously increases their efficiency.




latest ideas in barn building. Substantially built, efficiently designed and completely equipped with the most modern dairy barn equipment, it is a structure that will reflect credit on any up-to-date progressive farm establishment.

Built with the well-known gambrel type of roof, this dairy barn is frame, set on a stout concrete foundation. By the use of the plank frame type of construction, ample storage space has been provided in the large hay-mow above.

One of the attractive features of this barn is the splendid silo supplement provided in the form of two large vitrified tile silos. They are 14 feet in diameter and connected with the feed room. This feed room is splendidly arranged for the storage of feed and conveniently close to the stalls so that extra work and hauling are eliminated. Bins for grain have been built in the upper part of the feed room.

Leading from this feed room is the main central feed alley, on either side of which are the cow stalls, ten on each side. They are equipped with the most modern, sanitary and humane stall partitions, stanchions, mangers and drinking cups. Every

### A Metaphorical Orgy.

A newspaper published in India by native editors recently committed this really extraordinary piece of writing:

"The Hindus and Mohammedans are the two eyes of India, but have long been engaged in a tug of war. On account of this cleavage both have suffered, but now the wall of separation is broken down, and they are coming together like sugar and milk, the bitter feelings between them having been pulled out like a thorn. They are advised to give up biting each other for the future."

Or else our contemporary, says Punch, will have exhausted its stock of metaphors.

### Cockroaches at a Premium.

A Pittsburgh physician is paying 5 cents each for good specimens of cockroaches. They must be alive and kicking. They will be sent to the University of Prague, where they will undergo a close examination. Their bodies will be closely searched for the germs of cancer. A scientist of that institution has a suspicion that these creatures carry the germs of cancer or their bodies and distribute them for human consumption as they stroll over portions of food left unprotected.

### In Transit.

"Were you nervous when you went up in the airship?" "Not exactly nervous," answered Senator Sorghum; "but I'll admit I was glad I wasn't expected to get out on the rear platform and make a speech."

## BEGGARS' GUILD IN HANKOW

### Mendicants Have Strong Organization and Run Affairs in a Business-like Manner.

In Hankow, China, even the most petty trades have their strong guild organizations, which regulate competition and settle disputes. The beggars have their organizations and once on a visit to Hankow I was fortunate enough to meet the head beggar of that city, a very capable man who had performed wonders in organizing and disciplining the crew who lived on Hankow's lean charity. He had apportioned the beggars between the different streets and had even arranged the exact amount each householder was to give to each beggar monthly. If a beggar violated any of the regulations set down to govern his conduct, complaint was made, not to the city officials but to the head beggar, who, out of the wealth of his experience, would attend to the offender with wisdom and dispatch. Some months after my visit Hankow was captured, first by the republican forces and later by the Manchus. For a long time the city was without its usual complement of officials, judges, policemen, etc. During this hiatus the beggars were kept in hand by the guild. The richer guilds employed men to take the place of the regular police, and the absence of political authority was little noticed, because it had never played a very important part in the lives of the residents.—Christian Science Monitor.

### Artificial Eyes.

Today there are probably more artificial eyes in the world than there have ever been before, yet so excellent is the workmanship used in their manufacture that they can very seldom be detected. The artificial eye, however, will not serve the wearer forever. There are certain orbital fluids which destroy the enamel, thus involving considerable expense for renewal. In view of this, celluloid is often used instead of glass, and lasts longer. The minutest details are carefully reproduced even in the veins on the eyeball and the broken color of a hazel iris.

# DAIRY FACTS

## HIGH COST OF PRODUCTION

### Illinois Experiment Station Secured Reliable Figures From 680 Dairy Farms.

There are various estimates on milk production costs and they are likely to be different under different circumstances. Moreover, there is considerable variation in milk quality, also, as it ranges from barely three per cent butterfat test to nearly five per cent. However, none of the figures available show that the producer of milk is "profiteering."

In Illinois the state experiment station secured accurate figures on milk production costs from 680 dairy farms with a total of 18,902 cows. Those figures showed the cost of all items entering into the production of 100 pounds of milk as follows:

| | |
|---|---|
| Grain, 44 pounds at $55 per ton | $1.21 |
| Silage, 188 pounds at $6 per ton | .56 |
| Hay, 50 pounds at $30 per ton | .75 |
| Other roughage, 39 pounds, at $10 per ton | .19 |
| Labor, 2½ hours at 30 cents per hours | .75 |
| Total cost per 100 pounds | $3.46 |

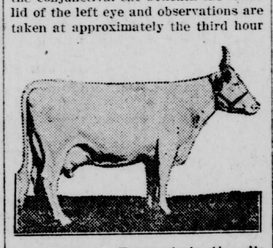
The cost is 3.46 cents per pound, or, taking 2.15 pounds per quart, 7.44 cents per quart.

## EYE TEST FOR TUBERCULOSIS

### Used as Check Upon Older Methods, as It Happens Occasionally Reactors Escape.

The eye test for detecting tuberculosis in cattle has the approval of the scientists of the bureau of animal industry, United States Department of Agriculture. The ophthalmic or eye test is used as a check upon the older methods, as it happens occasionally that an animal that will not react to the subcutaneous injection or intradermal test will react to the eye test.

Two tuberculin tablets are placed in the conjunctival sac beneath the lower lid of the left eye and observations are taken at approximately the third hour



Eye Test for Tuberculosis Has Its Best Use on Dairy Farm, Where Conditions Are Best Suited.

following and at frequent intervals up to 24 hours. Reaction to the test is indicated by discharge and swelling.

The bureau of animal industry is not prepared to accept the evidence of the eye test alone where cattle are intended for interstate shipment. The test, however, furnishes an additional safeguard when used with the older method.

The eye test is not well adapted for use upon range cattle or cattle in transit, because of the possibility for dust setting up an irritation not related to tuberculosis. It has its best use on the dairy farm, where conditions are such as to give sure results.

The experts have observed that in herds which are frequently tested by the subcutaneous method it is advisable to apply the intradermal and the eye test. The combined test sometimes detect reactors which have escaped detection by other means.

## CRUSHED GRAIN IS FAVORED

### Any Aid Given Cow in Digestion of Food Will Show in Increased Flow of Milk.

There is no animal harder worked than the dairy cow giving a large flow of milk, and any aid given her in digestion will show decided increase in milk and in her condition. Some grains are easy of mastication and digestion, but the usual ration of the corn belt is comprised mainly of wheat, corn, oats, rye and barley. All of these grains will show up in the feces if fed whole and unless the cattle are followed by hogs it is entirely lost.

Crushing grain is better than grinding it fine, for the digestibility may be decreased due to failure to mix properly with the saliva. Beware of dairy feeds too finely ground, for they may contain filler and cannot be properly digested.

## BEETS ARE EXCELLENT FEED

### Because of Labor In Harvesting and Cost of Handling Are Not as Cheap as Silage.

Sugar beets are an excellent feed for dairy cows, but because of the labor in harvesting and the expense of handling, are not as economical as corn silage. They have a larger amount of nutriment than mangels or rutabagas, but it is generally held that the latter will yield somewhat more per acre and are less difficult to handle. Sugar beets are not hard on the kidneys, but if fed in too large quantities there is a tendency to scour the animals. This is due to the high sugar content of the beet.

### Precautions Necessary.

Cooler weather should not mean less care in the handling of milk and cream. Even though the weather is cooler, summer precautions are necessary if a first-grade product is to be delivered.

### More Than Mere Shelter.

The modern dairy barn is more than a means of shelter for the cows.

### Alfalfa Always Desired.

Alfalfa is always to be desired on the menu of the dairy cow.

# POULTRY

## MITES CAUSE OF SCALY LEG

### Application of Crude Petroleum to Legs With Brush or Dipping Is Best Treatment.

Two species of itch mites attack fowls, one of which is the cause of scaly leg. While this mite commonly remains on the feet, burrowing through the scales and causing their enlargement, it also attacks the comb and the neck. A crust of loose tissue is formed above the burrows, and intense itching results from this mining habit. When scaly leg is left untreated the feet of the birds often become badly distorted, and in some cases the fowl can scarcely walk or get to the perch. Sometimes terminal joints of the toes are lost.

As the mites are transferred from one bird to another, scaly-leg fowls should be treated promptly and should not be introduced among clean birds. Investigations made under the supervision of the United States Department of Agriculture show that carbolineum or crude petroleum used on the roosts doubtless will aid in preventing the spread of the scaly-leg mite from one fowl to another. Applying crude petroleum to the legs with a brush or dipping the legs into this oil is very effective. One application usually is sufficient, but if the scales are not largely shed off after a lapse of 30 days the treatment should be repeated. Kerosene oil is applied by some farmers in the same way, but is less effective than crude oil. In using either, care should be taken not to get the oil on the upper part of the leg or on the feathers. A less severe but more laborious treatment consists of soaking the feet in warm soapsuds until the scales are loosened and then greasing the feet and legs with sulphur and lard, or lard containing 6 per cent crude carbolic acid.

The other itch mite, commonly called the depluming mite, is a very small creature which burrows into the skin near the base of the feathers. The intense itching sometimes causes the fowls to pull their feathers until they are almost naked. Dipping of all fowls of an infested flock in a tub of water containing about two ounces of flowers of sulphur and one-half ounce of laundry soap to each gallon



Continuous Selection for Health and Vigor Will Insure Flock That Will Produce Fertile Eggs and Strong Chicks Capable of Making Quick Growth.

of water will give complete control. The fowls should be completely submerged and the feathers ruffled so all parts of the body will be reached by the liquid. Care should be taken to keep the dip stirred during treatment so as to keep the sulphur in suspension. In case a flock has lice as well as the depluming mite, three-fourths ounce or one heaping tablespoonful of sodium fluorid should be added to each gallon of water in the foregoing mixture.

## GREEN FEED DURING WINTER

### Sprouted Oats, Alfalfa Meal and Clover Hay Are Excellent—Hang Up Cabbages.

Good kinds of green feeds for hens in winter, recommended by the United States Department of Agriculture, are sprouted oats, alfalfa meal, chopped alfalfa and clover hay, cabbages and mangel beets. Cabbages may be hung up in the poultry house; the beets are usually split and stuck on a nail on the side wall of the pen about a foot above the floor to keep the feed clean. Keep oyster shells, grit, charcoal, and plenty of clean drinking water before the hens all the time.

### Standard-Bred Most Valuable.

Eggs and market poultry produced by a flock of standard-bred chickens are more uniform in size, shape and quality, and are consequently worth more on the market.

### Feed for Molting Fowls.

There is little danger of molting birds becoming overfat and for that reason it is safe to feed corn in as large proportion as the fowls care for it.

### Green Feed Is Essential.

Do not forget the necessity of providing green feed in some form to the hens during the winter season. It is essential to the health of all poultry.

### Keep But One Variety.

Beginners are urged to keep but one variety of a breed of fowls. There is no best breed of poultry. Select the breed that suits your purpose best.

### One Bad Egg Harmful.

If you can guarantee the freshness of your eggs, you can hold your trade. Remember that one bad egg in a lot may lose your customer.

### Inherited Quality.

The ability to lay a good many eggs is an inherited quality and more attention will be paid to breeding for this quality in the future.

# Farm Live Stock

## CURING HORSE'S BAD HABITS

### In Case of Chronic Balker Course of Training Will Be Needed to Overcome Fault.

Horses that have been properly handled and trained are not balky, neither do they have bad habits. When horses with bad habits are encountered a careful study of each case should be made in order to ascertain the cause, and, if possible, to remove it.

The most common cause of balkiness among horses is punishment to make them do something that they cannot do or that they do not understand how to do. Another common cause is the forcing of horses to draw heavy loads without allowing them to stop occasionally to rest and regain their breath. The use of the whip or spur in such instances should be avoided, as the pain inflicted will be very likely to provoke further and more stubborn rebellion. If a horse balks the hearing of the harness should be examined to see if it is hurting him. If a heavy load is being drawn and the horse is not allowed to rest and regain his breath and strength he may become sulky and refuse to pull. Give him a short rest, and while he is resting rub his nose, pick up a front foot and tap the hoof a few times, or adjust the harness, and he may forget his grievance. Take the lines and give the command to go ahead, turning slightly to the right or left to start. If the horse does not start it is either a case of overload or a chronic balker. If the load is so heavy it cannot be drawn, unload. If the horse is a chronic balker a course of training will be necessary to overcome the habit.

In older horses where the habit of balking is fixed the horse should be trained to obey all commands with promptness without being hitched to the wagon. First put on the double trip ropes and use them until the horse stops and stands when he hears "whoa." Next put on the guy line, which should be managed by an assistant, while you drive and attend the trip ropes. The guy line is a rope fastened around the horse's neck and a half hitch over the lower jaw. It is very severe and should not be used to excess. If the horse shows any tendency to balk, give the command "whoa" before he stops of his own accord. When ready to start, the assistant should take a position in front of the horse and smartly jerk him forward with the guy line at the same time you give the command "get up." Repeat the process of stopping and starting until the horse shows no signs of self-will. Use the guy line, and use it severely, on the slightest intimation that the horse is going to balk. After a few of these lessons the horse may be hitched to the wagon. The trip ropes and guy line should be kept on until he is well broken of the habit.



Modern Example of Good Breeding—One of Stallions Bred by the Department of Agriculture at Buffalo, Wyo.

A horse that kicks when something touches his heels is dangerous to drive. To overcome the habit, put on the harness and the trip ropes. Take a stick and pole him all over. After he becomes submissive to the pole, tie sacks of hay to the traces and breeching, and continue the lesson until he pays no attention to them.

Fasten a long pole on either side with one end to drag on the ground, the other end to be fastened to the shaft carrier. Drive him around with these, and if he attempts to kick command "steady" and pull him to his knees. The lessons should be continued until he submits to the poles dragging between his legs and round him.

## SILAGE FOR PRODUCING BEEF

### Missouri College of Agriculture Outlines Satisfactory Plan With Young Steers.

Highly satisfactory beef can be made from two-year-old steers by feeding corn as silage, together with linseed meal and clover or alfalfa hay, instead of full feeding shelled or ear corn, according to the Missouri College of Agriculture.

One acre, yielding 40 bushels of corn, or eight tons of silage, if fed as silage, together with 1,733 pounds of linseed oil meal and 1,810 pounds of alfalfa hay would produce 756.8 pounds of beef and 11.3 pounds of pork. If, however, the corn be fed as shelled corn (full feed) and silage, together with 308.2 pounds of linseed meal and 345.2 pounds of alfalfa hay, it would produce 291.6 pounds of beef and 68.5 pounds of pork.

### Need Supplemental Feeds.

Corn and hogs go together, but the hogs go better for the addition of some supplementary feeds with the corn.

### Economical Poultry Feed.

Oats are coming to be more and more strongly considered as an economical and well balanced poultry feed.

### Disease of Fowls.

Milk products are also very good for chickens and will take the place of the meat in a ration.


**Grove's**

is the Genuine and Only

***Laxative***

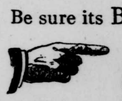
***Bromo Quinine***

***tablets***

The first and original Cold and Grip tablet, the merit of which is recognized by all civilized nations.

Be careful to avoid imitations.

Be sure its Bromo



E. W. Grove

The genuine bears this signature

30c.




**Vaseline**

Reg. U.S. Pat. Off.

PETROLEUM JELLY

For burns, cuts, sprains and all skin irritations. Relieves dryness of scalp.

REFUSE SUBSTITUTES

CHESEBROUGH MFG. CO. (CONSOLIDATED)

State Street New York

## Freed From Torture

### *Eatonic Cleared His Up-Set Stomach*

"The people who have seen me suffer tortures from neuralgia brought on by an up-set stomach now see me perfectly sound and well—absolutely due to Eatonic," writes R. Long.

Profit by Mr. Long's experience, keep your stomach in healthy condition, fresh and cool, and avoid the ailments that come from an acid condition. Eatonic brings relief by taking up and carrying out the excess acidity and gases—does it quickly. Take an Eatonic after eating and see how wonderfully it helps you. Big box costs only a trifle with your druggist's guarantee.

**Rheumacide**

GETS AT THE JOINTS FROM THE INSIDE

Have you **RHEUMATISM** Lumbago or Gout?

Take RHEUMACIDE to remove the cause and drive the poison from the system.

"RHEUMACIDE ON THE INSIDE PUTS RHEUMATISM ON THE OUTSIDE"

At All Druggists

Jas. Baily & Son, Wholesale Distributers Baltimore, Md.




For aching teeth—Pike's Toothache Drops.

**Dr. Kellogg's Asthma Remedy**

for the prompt relief of Asthma and Hay Fever. Ask your druggist for it. 25 cents and one dollar. Write for FREE SAMPLE.

Northrop & Lyman Co., Inc., Buffalo, N.Y.

**Comfort Your Skin With Cuticura Soap and Fragrant Talcum**

Soap 25c, Ointment 25 and 50c, Talcum 25c.

**SALESMEN** Wanted To Sell Our West Virginia Grown Nursery Stock. Fine canvassing outfit FREE Cash Commission Paid Weekly. WRITE for terms

THE GOLD NURSERY CO. Mason City, W. Va.

**A Bad Cough**

If neglected, often leads to serious trouble. Safeguard your health, relieve your distress and soothe your irritated throat by taking

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