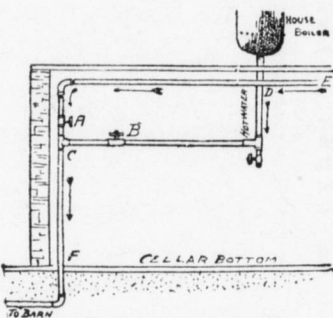


THE FARMING WORLD

WATER HEATING DEVICE.

Where Hot Water Is Wanted in the Barn. This Clever Little Scheme Works Very Well.

The subjoined diagram illustrates how easily water can be warmed in a small way, where both house and barn are furnished with running water and moderate plumbing arrangements. The pipe marked e, f, running through the house cellar, furnishes water to the house and barn. By means of two short pipes, c, d, the pipe from the



hot water boiler in the house is connected with the pipe, e, f, which as before stated supplies the barn with cold water.

Then all that is necessary to fill the barn tub with warm water is to open the valve b, and shut valve a, thus letting the warm water from the house boiler into the pipe which goes to the barn and shutting off the flow of cold. This clever little scheme has worked successfully on an up-to-date farm in Amherst, Mass., and has furnished warm water to four cows and two or three horses for several winters. The only objection is that the good housewife sometimes objects to having her supply of hot water exhausted two or three times a day.—Orange Judd Farmer.

TWISTED STOMACH WORM.

Parasite That is Causing Considerable Trouble Among Lambs at the Present Time.

A press bulletin just issued by D. A. W. Biting, of the Purdue university experiment station, says that the past wet season has been very favorable to the development of animal parasites and the effects are now being realized in the very great loss of lambs due to twisted stomach worms. The symptoms are dullness, loss of appetite, increased thirst; diarrhoea may or may not be present; some show an accumulation of fluid between the jaws; grinding of teeth; stiffness of back and hind parts; lagging behind the flock. In acute cases there may be evidences of pain, as colic, eating unusual material and much bloating. Some die suddenly without showing much evidence of disease, but most linger a week or two. Old sheep are not much affected. The worm—one-half inch long and thread-like—is found in the fourth stomach. If a lamb is killed and the stomach be opened at once, these worms will be found of a pinkish color, but if the lamb dies and the stomach be not opened for a couple of hours, the worms will be white and matted together, resembling fibers of food.

The treatment is as follows: Take one part of coal tar creosote and 100 parts of water and mix well. With a two-ounce hard rubber syringe having a short bit of rubber tubing on the end, administer one syringeful to each lamb. Use care not to hold the head too high or to force the dose too rapidly, so as to cause strangulating. With such an arrangement a whole flock may be easily treated. One to three treatments given a few days apart may be necessary. It is also a good policy to turn the lambs off the regular pasture into the corn field. They will do little damage to the corn, and in eating the lower blades and grass get food free from all contamination. Yarding and giving dry feed may also be resorted to. The main object is to get the sheep off the infected pasture.

Irrigation by Pumping.
In our western country and even in some localities in the central west, considerable irrigation has been done by means of pumps. Some declare that irrigation by means of pumps can never amount to much. But we know that this practice is as old as civilization, and this mode of irrigation has been employed in some parts of the world successfully for centuries. There are many places in our western states where from five to 15 acres of land are irrigated by pumps driven by windmills. Doubtless the future will see the further utilization of the pump, whether driven by wind or by other force.—Farmers' Review.

Long Horns Passing Away.
The famous Texas steer, about which so much has been written in history, and which until quite recent times has figured in the development of the great southwest, is fast becoming extinct. The Texas steer, and its companion, the cowboy, are both "passing," and will be known soon only in fiction and history. The "longhorns" are vanishing before the onward movement of the blooded stock of the north and east. Gerónimo, a famous long-horned animal from Texas, when 35 years old, had a pair of horns measuring nine and one-half feet from tip to tip.—Rural World.

SUCCESS IN FARMING.

It Depends on the Way the Business Is Conducted and How Small Things Are Done.

Success in farming depends on the way the business is conducted, and on how well the small things are done. One of the principal causes of failure in farming is going on in a haphazard kind of way, paying no attention to the small things and keeping no accounts of the outgo or income. The few shingles that are off the barn don't interfere any, only when it rains, and rainy days are the only times they have to do these odd jobs, being so busy other times with big jobs. There may be a weak place in the barn floor and some day an animal will step through. It's only a short piece of work to repair it and will be attended to some day, but that day never comes.

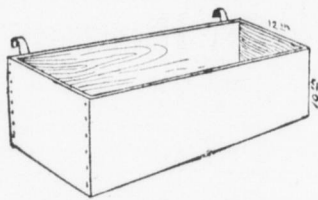
If one is to make a success at farming he must pay strict attention to all these odd jobs. He cannot be an agent for everything that comes along, go with a threshing machine all the fall, or draw all the milk to the creamery for his neighbors. If practicable for best results, he must have his plowing done in the fall for spring crops; never keep two hired men when only one is needed. A great many farmers keep one hired man the year round, when his services five or six months would be all that is necessary. The manner in which the implements are used on some farms bring a great loss to the owner. They should be carefully sheltered at all times when not in use, and given a coat of paint when required. Keep posted on the markets of the future and sell accordingly.

In growing crops aim to raise what the markets demand. All markets are not alike and a close observation of the demands of the customer, as well as the seasons when certain kinds of farm produce is preferred will give the farmer an advantage which will enable him to secure better prices. Remember, it is the buyer who is to be satisfied. If in marketing poultry the consumer prefers fowls with yellow legs, it is to the producer's interest to grow such. The best breed for his purpose is that which he finds will give the buyer the greatest satisfaction, and what is true of poultry also is true of a great many other products of the farm.—V. M. Couch, in Farmers' Voice.

BOX FOR SEED CORN.

Excellent Contrivance for Those Who Save the Seed While Gathering the Year's Crop.

To save seed corn while gathering the corn I use a box 12 inches wide, ten inches deep and 28 inches long, suspended from rear end gate of wagon box by strong hooks. To make the hooks, take strap iron 1 1/2 inches wide and extend it from the upper



outside edge of the box around under the box near each end and up above the inside edge sufficient to form hooks; then put long bolts through to keep from spreading. If made right it will bear a man's weight. I have used the same box over 15 years. I prefer to save seed corn while gathering, as I then see and handle every ear.—E. L. Christy in Epitomist.

PERTINENT FARM NOTES.

The United States raises four-fifths of the world's corn, over 2,900,000,000 bushels annually. There is a wide divergence of opinion as to the outcome of the United States' rice crop for 1902. Estimates of yield range from 3,600,000 to 4,600,000 sacks.

Where a locality becomes addicted to the habit of growing one crop year after year, the average soil deteriorates unless fertilizers are applied, if the crop is sold from the farm.

A well arranged system of rotation contributes greatly to maintaining the uniform fertility of the soil, and is also one of the readiest means by which to get rid of insect pests. Illinois, for the last 25 years, has averaged over a quarter of a billion bushels of corn annually. An increase of one bushel of corn to the acre means to Illinois farmers \$4,000,000.

The results of co-operative fertilizer tests on meadows conducted in England in 1900, showed that the most profitable proportions of commercial fertilizers were 150 pounds of nitrate of soda, 200 pounds of super phosphate and 300 pounds of kanit per acre.

Feeding Carrots and Turnips.
Carrots in reasonable amounts are excellent feed for milk cows and have no tendency whatever to dry them off. Frozen cabbage leaves are not fit food for cows or any other animals, but they will have no tendency to produce blindness. A great many people feed turnips and think them excellent for cows. They have a tendency to taint the milk, especially if fed just before or just at milking time. If fed immediately after milking this tendency is reduced to a minimum. The fresh tops of turnips and beets make a very good relish for cows, but afford very little nutriment. They should be fed sparingly and after cows have partially appeased their appetites and not just before milking.

On the Verge of Bright's Disease.—A Quick Cure that Lasted.

CASE NO. 36,611.—C. E. Boies, dealer in grain and feed, 505 South Water Street, Akron, O., made the following statement in 1896, he said: "Ever since the Civil War I have had attacks of kidney and bladder troubles, decidedly worse during the last two or three years. Although I consulted physicians, some of whom told me I was verging on Bright's disease, and I was continually using standard remedies, the excruciating aching just across the kidneys, which radiated to the shoulder blades, still existed. As might be expected when my kidneys were in a disturbed condition, there was a distressing and inconvenient difficulty with the action of the kidney secretions. A box of Doan's Kidney Pills, procured at Lamparter & Co.'s drug store, brought such a decided change within a week that I continued the treatment. The last attack, and which was particularly aggravated, disappeared."

Three Years After.

Mr. Boies says in 1899: "In the spring of 1896 I made a public statement of my experience with Doan's Kidney Pills. This remedy cured me of a terrible aching in the kidneys, in the small of my back, in the muscles of the shoulder blades, and in the limbs. During the years that have gone by I can conscientiously say there have been no recurrences of my old trouble. My confidence in Doan's Kidney Pills is stronger than ever, not only from my personal experience but from the experience of many others in Akron which have come to my notice."

A FREE TRIAL of this great kidney medicine which cured Mr. Boies will be mailed on application to any part of the United States. Address: Foster-Milburn Co., Buffalo, N. Y. For sale by all druggists, price 50 cents per box.

Mr. McCall—Good evening, Bobby, is your sister at home? Bobby—I don't know, I heard her tell me she expected a proposal to-night, an' if you ain't the feller I guess she ain't home.—Philadelphia Press.

Lionel Arden.
One of the new novels of exceptional merit, built along historical lines, is "Lionel Arden" by Malcolm DeSargant. Like many of the novels of the time it takes its name from that of the hero. The scene is England and the time that of Henry VIII., and through to Queen Elizabeth. The hero, Lionel, is the son of Lord Arden, who is killed in a duel with Lord Haven, and his death is quickly avenged by the young son. The story follows the entrance of the hero into English court life, and contains some brilliant descriptions of the gayeties and festivities of those times. One of the principal characters is Lady Jane Grey, who is, in fact, the real heroine. This is the only novel that has ever brought to the sympathy and admiration of story readers that woman of purity and exquisite womanliness. Published by G. W. Dillingham Company, New York. Price, \$1.50.

"See here," protested the charitable man, "you touched me for a quarter last week, and here you are again." "Well, Gee whizz!" exclaimed the beggar, "ain't you earned anything since?"—Philadelphia Press.

Hundreds of lives saved every year by having Dr. Thomas' Electric Oil in the house just when it is needed. Cures croup, heals burns, cuts, wounds of every sort.

Money and time are the heaviest burdens of life, and the unhappiest of all mortals are those who have more of either than they know how to use.—Johnson.

No matter how long you have had the cough; if it hasn't already developed into consumption, Dr. Wood's Norway Pine Syrup will cure it.

Vanity is the daughter of selfishness.—Chicago Daily News.

Fortify Feeble Lungs Against Winter with Hale's Honey and Horchard and Tar, Pike's Toothache Drops Cure in one minute.

Some men are known by the friends they fail to make.—Chicago Daily News.

Piso's Cure cannot be too highly spoken of as a cough cure.—J. W. O'Brien, 322 Third Ave., N. Y., Minneapolis, Minn., Jan. 6, 1900.

Education is mitigated ignorance.—Chicago Daily News.

June Tint Butter Color makes top of the market butter.

Look out for the man that let's you do all the talking.—Aitchison Globe.

A CHARITY FIB.

The Young Idea Was to Set the Sensitive Person Perfectly at Ease About His Nose.

Notwithstanding the man knew how he had come by his red nose, he was extremely sensitive about it, and any reference to it was resented promptly and with emphasis. One day he was calling on some ladies when the small boy of the family was present. The youngster was strangely attracted by the radiant nose, and kept watch on it from the moment the visitor entered the room until he had a chance to speak to his mother, relates the New York Herald.

"Is it wrong to tell a story, mamma?" he asked, so that everybody could hear.

"Of course it is," she replied, with a proper degree of horror.

"But isn't it right to tell one just sometimes?" he persisted.

"Well," she hesitated, "possibly if one is told to spare the feelings of some person it might be excused."

"And why does my little man ask such a question?" inquired the gentleman very coaxingly.

"Because," responded the boy, "I wanted to say your nose wasn't a bit red, if somebody else wasn't going to say it pretty soon."

Later when the culprit was going to punishment he asked his mother if she wouldn't have licked him just the same if he had told the truth.

Moral—Don't monkey with morals.

Not So Very Crazy.

An Emporia (Kan.) sportsman was out fishing wroth days ago, the Gazette says, and happened to be by the poor farm. One of the crazy men they keep out there saw him and began asking him questions. "What have you killed?" asked the crazy fellow. The sportsman said he had a meadow lark and two doves. "What did you pay for that?" "Sixty dollars," "How much is the dog worth?" "Twenty-five dollars." "An \$80 hunting outfit to kill 25 cents' worth of game! They keep me locked up in here because they say I'm crazy, and they let you run loose. It isn't fair," said the crazy man.

VERY LOW COLONISTS' RATES.

To the West, Northwest and Southwest. The Missouri Pacific Railway and Iron Mountain Route will sell one way Colonists' and Settlers' tickets to California and North Pacific Coast points, also to points in Missouri, Arkansas, Indian and Oklahoma and Louisiana and Texas on the first Tuesday of each month from October 21st to April 31st, at one-half the standard first-class fare, plus \$2.00. For further information see nearest Agent, or write H. C. Townsend, G. P. & T. Agent, St. Louis, Mo.

A Coincidence.

It is worthy of note that Love and Justice are both represented as being blind, and that the victim of either seldom escapes.—Woman's Home Companion.

Four Daily Trains to St. Paul-Minneapolis via Chicago & Northwestern Railway. Leave Chicago 9 a. m., 6:30 p. m. (the North-Western Limited, electric lighted throughout), 8 p. m., and 10 p. m. Fast schedules. Most complete and luxurious equipment in the West. Dining car service unequalled. For tickets, reservations and descriptive pamphlets apply to your nearest ticket agent or address W. B. Kniskern, 22 Fifth Avenue, Chicago, Ills.

A Thin-Soil Crop.

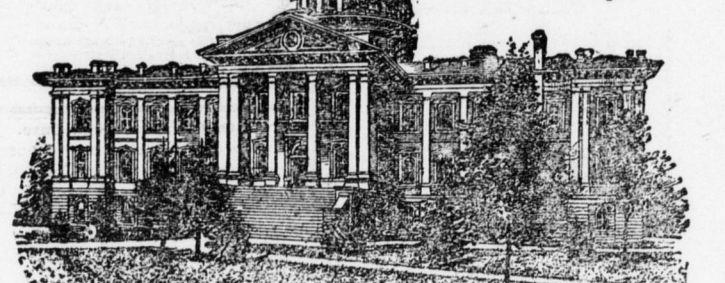
Egotism is one of the crops most easily cultivated. A peculiarity of the plant is that it makes the most rapid and permanent growth on the barrenest of mental reservations.—Los Angeles Herald.

St. Jacobs Oil.

In cases where bronchitis has become chronic from want of proper treatment in the earlier stages, there is nothing so good as Dr. August Koenig's Hamburg Breast Tea, in conjunction with which is strongly advised the use of St. Jacobs Oil as an outward application, along the front of the throat, under close up under the chin to well down to the top of the chest; the one remedy assists the other, and, as intended, they work in complete unison. The wonderful penetrating power of St. Jacobs Oil enables it to reach the adhesion of foreign matter which lines the bronchial tubes and which makes breathing more and more difficult. As these adhesions become inflamed and enlarged, St. Jacobs Oil causes such adhesions to break away, making expiration easier and more free. Dr. August Koenig's Hamburg Breast Tea, drank slowly and very hot, soothes and heals the parts, is comforting and quieting, stops the cough and relieves the breathing. This manner of treatment (and there is no other two remedies that will work together so successfully) reaches the difficulty from the outside and the inside at the same time. St. Jacobs Oil reaches the roots of the adhesion, and assists Dr. August Koenig's Hamburg Breast Tea in clearing them; then both remedies act in unison in healing and curing. The above remarks apply with equal force in cases of asthma, croup, whooping cough, enlarged tonsils, and all bronchial affections. Every family should have St. Jacobs Oil and Dr. August Koenig's Hamburg Breast Tea always in the house in order that they may be promptly used in the first stages. Often the maladies develop with wonderful rapidity, and complications take place with equal suddenness.

GOVERNOR OF OREGON

Uses Pe-ru-na in His Family For Colds and Grip.



CAPITOL BUILDING, SALEM, OREGON.

A Letter From the Executive Office of Oregon. Pe-ru-na is known from the Atlantic to the Pacific. Letters of congratulation and commendation testifying to the merits of Pe-ru-na as a catarrh remedy are pouring in from every State in the Union. Dr. Hartman is receiving hundreds of such letters daily. All classes write these letters, from the highest to the lowest.

The outdoor laborer, the indoor artisan, the clerk, the editor, the statesman, the preacher—all agree that Pe-ru-na is the catarrh remedy of the age. The stage and rostrum, recognizing catarrh as their greatest enemy, are especially enthusiastic in their praise and testimony.

Any man who wishes perfect health must be entirely free from catarrh. Catarrh is well-nigh universal; almost omnipresent. Pe-ru-na is the only absolute safeguard known. A cold is the beginning of catarrh. To prevent colds, to cure colds, is to cheat catarrh out of its victims. Pe-ru-na not only cures catarrh, but prevents. Every household should be supplied with this great remedy for coughs, colds and so forth. The Governor of Oregon is an ardent admirer of Pe-ru-na. He keeps it con-

tinually in the house. In a recent letter to Dr. Hartman he says: STATE OF OREGON, EXECUTIVE DEPARTMENT, SALEM, May 9, 1898. The Pe-ru-na Medicine Co., Columbus, O.

Dear Sirs—I have had occasion to use your Pe-ru-na medicine in my family for colds, and it proved to be an excellent remedy. I have not had occasion to use it for other ailments. Yours very truly, W. M. Lord.

It will be noticed that the Governor says he has not had occasion to use Pe-ru-na for other ailments. The reason for this is, most other ailments begin with a cold. Using Pe-ru-na to promptly cure colds, he protects his family against other ailments. This is exactly what every other family in the United States should do. Keep Pe-ru-na in the house. Use it for coughs, colds, la grippe, and other climatic affections of winter, and there will be no other ailments in the house. Such families should provide themselves with a copy of Dr. Hartman's free book, entitled "Winter Catarrh." Address Dr. Hartman, Columbus, Ohio.

7% INVESTMENT

The Preferred Stock of the **W. L. Douglas Shoe Co.**
Capital Stock, \$2,000,000.
\$1,000,000 Preferred Stock.
\$1,000,000 Common Stock.
Shares, \$100 each. Sold at Par.
Only Preferred Stock offered for sale.
W. L. Douglas retains all Common Stock.

WET WEATHER HATS

MADE BY THE MAKERS OF **TOWER'S FISH BRAND SLICKERS**
HAVE THE SAME POINTS OF EXCELLENCE AND GIVE COMPLETE SATISFACTION.

HAZARD GUN POWDER

"EXPERT SHOOTERS WHO KILL AT NEARLY EVERY SHOT USE HAZARD." "WITH THIS FINEST WAS BETWEEN POWDER AND SHOT, LOOSE PAPER FOR WADING CANNOT PRODUCE GOOD RESULTS."

PILES

ANAKESIS gives instant relief and POSITIVE CURE FOR PILES. For free sample address "ANAKESIS," Tribune Building, New York.

Mexican MUSTANG LINIMENT

FOR THE AILMENTS OF
FOR MAN OR BEAST HORSES COWS CALVES MAN OR BEAST MULES SHEEP and OXEN

Why Because

Syrup of Figs is the best family laxative

Its component parts are all wholesome. It acts gently without unpleasant after-effects. It is wholly free from objectionable substances.

It contains the laxative principles of plants. It contains the carminative principles of plants. It contains wholesome aromatic liquids which are agreeable and refreshing to the taste.

All are pure. All are delicately blended. All are skillfully and scientifically compounded.

Its value is due to our method of manufacture and to the originality and simplicity of the combination.

To get its beneficial effects—buy the genuine.

Manufactured by **CALIFORNIA FIG SYRUP CO.**
San Francisco, Cal. Louisville, Ky. New York, N. Y.
FOR SALE BY ALL LEADING DRUGGISTS.

Why Because

Syrup of Figs is the best family laxative

It is pure. It is gentle. It is pleasant. It is efficacious. It is not expensive. It is good for children. It is excellent for ladies. It is convenient for business men. It is perfectly safe under all circumstances. It is used by millions of families the world over. It stands highest, as a laxative, with physicians. If you use it you have the best laxative the world produces.