

# ROAD AND FARM IMPROVEMENT

## COMPRESSED AIR SERVICE.

Suggestion for Securing Running Water in the Farm House.

A farmer of Milton, Ind., thinks that he has invented a novel and superior form of compressed air water service system. As water in wells is often found within slight distance from the surface, from 12 to 30 feet, he would dig the well of good size and immerse an air-tight reservoir directly in the water. This would fill by merely opening a valve, and the water he would force out by pumping air into the reservoir. The air pump could be located anywhere and con-

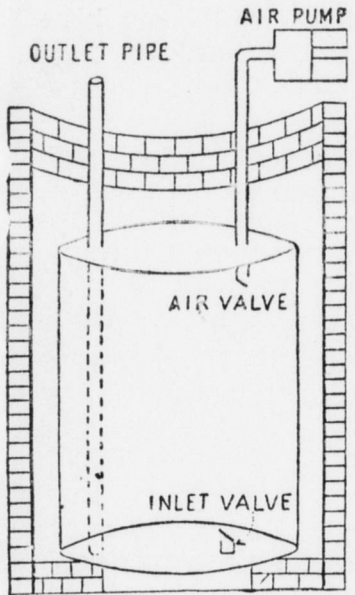


Diagram of Well and Tank.

ected by small pipe. Wind or gaso- ne would work the pumps. He pre- sents a diagram of the idea. Doubtless this would work quite well, remarks Breeders' Gazette. In order to have a continuous flow of water there should be two of these reservoirs, and if above them there was a separate reservoir for com- pressed air, all the better, since the windmill would not always operate. The main difficulties are two: it is costly to open a large well and most modern wells are drilled ones, and air is not a real easy thing to pump with a windmill, since a slow motion is ery wasteful in operating an air pump. As a matter of fact, a great deal of thought and experiment has been expended on this and similar problems, and thus far little use seems to have been made of the idea.

## DRAGGING ROADS.

Points Which Must Be Remembered to Do Good Work.

The following points are to be borne in mind in dragging a road: Make a light drag, which is hauled over the road at an angle so that a small amount of earth is pushed to the center of the road. Drive the team at a walk. Ride on the drag; do not walk. Begin at one side of the road, returning on the opposite side. Drag the road as soon after every rain as possible, but not when the mud is in such a condition as to stick to the drag. Do not drag a dry road. Drag whenever possible at all seasons of the year. If a road is dragged immediately before a cold spell it will freeze in a smooth condition. The width of traveled way to be maintained by the drag should be from 18 to 20 feet; first drag a little more than the width of a single wheel track, then gradually increase until the desired width is obtained. Always drag a little earth toward the center of the road until it is raised from ten to twelve inches above the edge of the traveled way. Remember that constant attention is necessary to maintain an earth road in its best condition.—Wisconsin Geological and Natural History Survey.

## FARM NOTES.

Nail a leather strap to the side of the wagon box to hold an ax and always keep one there. The best tools are the cheapest, the best stock is the most profitable and the highest fertilization and cultivation will bring the largest crops. The meadows and pastures, as well as the growing wheat, are often benefited by rolling well in the spring after the frost is out of the ground. By cleaning up the farm you will increase its value, and when it is cleaned and cleared it will cultivate more easily and cheaply and give larger returns. When you have finished plowing clean the dirt from your plow and grease all the wearing parts with axle grease. Smeat it on with a rag and be sure to leave no spots untouched. Cure indigestion. Cure indigestion in poultry by feeding green stuff and bulky food generally. This is easy to do in the spring. This is better than medicine. If the sick bird has no appetite keep food away from it till the appetite returns and a little longer. Indigestion is frequently mistaken for cholera, as the symptoms are sim- ilar.

## CORN GROWING.

Stir the Soil and Kill the Weeds in Between the Rows.

I have made it a somewhat firm and fast rule not to plant corn until the soil is good and warm, writes a Miss Yari correspondent of Orange Judd Farmer. This gives immediate and rapid germination, bringing the corn up at once, and in that way saves the injuries that often result from too early planting, by mice and insects working on the seed. It is my judgment that the early planting has more to commend it to the corn grower than late planting, yet as stated above this is a matter wholly to be regulated by the individual operator.

I have secured my very best stands by getting the planter just deep enough to cover the corn well. If the ground is real dry, deeper planting is advisable, three or even four inches not being considered too deep. Now for the cultivation. There is a maxim in the commercial world that well bought is half sold. So it may be said, if the corn grower does his duty to the corn plant before it appears above ground, his battle is half won. I like to cultivate, so to speak, at least twice before the corn comes up. By so doing I accomplish some of the many purposes of cultivation. You kill the sprouted weed seeds, aerate the soil, hasten the warming up of the seedbed and increase your chances for a good stand.

I like to go over the land twice and leave it in fine shape for the first going over with the six-shovel cultivator. Twice over with the smoothing harrow will do this very nicely. Now remove the large shovel next to the row and put on the long, narrow bull tongue and with a quiet, slow-walking team you can get right up to the little plants and give the little corn a regular hoeing. You can also go deep this time, without effecting root prun- ing, a thing to be studiously avoided ever after.

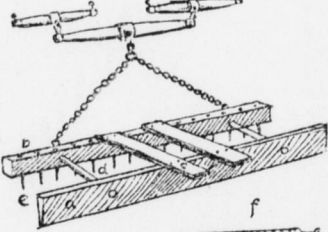
I like to cultivate four or five times, depending upon the season, and the rapidity of the growth of the plants. While I am an ardent and an un- wavering advocate of shallow cultivation, yet I know from my own experience that there are times when you must cultivate deep. When the season has been wet and you have been kept out of the field until the weeds are numerous and lusty, you must plow deep, for you will need dirt and much dirt to cover these weeds, and deep plowing is the only way to get the dirt. Ordinarily, I practice shallow cultivation, for I believe it to be better for the crop and I know it is much easier on the teams. Especially do I like level cultivation the last time going over the field.

Some of the very best yields I have ever had, I have got on the land immediately after harvesting the corn and sowed to timothy with no other preparation of the seedbed than two harrowings with a smoothing harrow, securing a splendid stand of grass on an ideal bottom or surface. I merely speak of this so as to give the reader some idea as to how level I try to leave the land at the last cultivation. If you ridge your land and a drought follows, the ground is just right to dry out and injure the crop. Keep weeds down, for remember that they consume the soil moisture as well as plant food. They are no respecter of persons and they will have their share of these things though the corn plant languish and die. There is an idea held by some that the excrement of weeds is highly poisonous to the corn plant, and for this, if for no other reason, they should not be allowed to grow.

## NEW ROAD DRAG.

One Which is Said to Be Superior to Split Log Drag.

The Home and Farm gives a new plan for a road drag: This road drag is superior to any drag that I have ever seen. The front piece consists of a four by four oak strip, ten feet long, through which are driven ordi-



Improved Road Drag.

nary harrow teeth about three inches apart. This is attached to the rear piece, a, which is a two by six oak timber ten feet long faced with three inches of one-quarter-inch metal on the bottom, e, which projects one inch. These pieces are kept apart by wooden blocks, d, upon the bolts, f, and by the top strips, c, each two by six. This makes a fine level road as it harrows it and scrapes it at the same time.

## Lima Beans.

Lima beans need a long season. By this the pole Lima is meant. There are bush Limas which grow more quickly, but they are not productive. It does not need many kinds of pole Limas to supply a family and the beans are delicious. The yield which may be obtained by good treatment is surprising. They may be started early in a cold frame by planting on inverted sods, but this is not always a convenient way of doing. The cold frame is needed for other purposes and it is expensive to provide one for this use alone.

## LANDLORD KNEW HIS CAPACITY.

Would Need to Lay in Supplies for Student Guest.

"Lawyer Hummel entertained us with his brilliant conversation on the Lusitania," said a tourist. "Hummel had one night in the smoking room an argument with a terribly scared German about education. 'There's nothing like our German students. You can't get away from that,' the German boasted, and his face, all slashed from corps duels, beamed with pride.

"No, you're right," said Hummel. "I once visited a German student in Heidelberg. As we conversed on dueling in the students' sitting room a waiter knocked, entered and said politely: 'The landlord of the Keg presents his compliments and wishes to know if you are thinking of stepping across this evening, sir?' 'What does he want to know that for?' the student inquired. "'Because, sir, if you don't,'" said the waiter, "it will scarcely be worth while to tap a fresh barrel to-day.'"

## NO SKIN LEFT ON BODY.

For Six Months Baby Was Expected to Die with Eczema—Now Well—Doctor Said to Use Cuticura.

"Six months after birth my little girl broke out with eczema and I had two doctors in attendance. There was not a particle of skin left on her body, the blood oozed out just anywhere, and we had to wrap her in silk and carry her on a pillow for ten weeks. She was the most terrible sight I ever saw, and for six months I looked for her to die. I used every known remedy to alleviate her suffering, for it was terrible to witness. Dr. C— gave her up. Dr. B— recommended the Cuticura Remedies. She will soon be three years old and has never had a sign of the dread trouble since. We used about eight cakes of Cuticura Soap and three boxes of Cuticura Ointment. James J. Smith, Durmid, Va., Oct. 14 and 22, 1906."

## GALLANTRY.



Wearily William—Excuse me, miss, but I see that you have had a tiff with your lover, and he has left you. Allow me to escort you home instead.

## State Pride.

There recently entered the offices of the civil service commission at Washington a dashing young dandy of perhaps 20 years of age, who announced to the official who received him that he desired to "get papers for an examination."

"From what state are you?" was the question put. The negro drew himself up proudly. "I am from the first state of the union, sir," he replied. "New York?" "No, sir; Alabama." "But," protested the official, with a smile, "Alabama is not the first state in the union." "Alphabetically speaking, sir; alphabetically speaking," said the negro.

## Not Time's Slave.

A traveler, finding that he had a couple of hours in Dublin, called a cab and told the driver to drive him around for two hours. At first all went well, but soon the driver began to whip up his horse so that they narrowly escaped several collisions.

"What's the matter?" demanded the passenger. "Why are you driving so recklessly? I'm in no hurry." "Ah, g'wan wid yez," retorted the caddy. "D'ye think I'm goin' to put in the whole day drivin' you around for two hours? Gitap!"

## DR. TALKS OF FOOD

Pres. of Board of Health.

"What shall I eat?" is the daily inquiry the physician is met with. I do not hesitate to say that in my judgment a large percentage of disease is caused by poorly selected and improperly prepared food. My personal experience with the fully-cooked food, known as Grape-Nuts, enables me to speak freely of its merits.

"From overwork, I suffered several years with malnutrition, palpitation of the heart and loss of sleep. Last summer I was led to experiment personally with the new food, which I used in conjunction with good rich cow's milk. In a short time after I commenced its use, the disagreeable symptoms disappeared, my heart's action became steady and normal, the functions of the stomach were properly carried out and I again slept as soundly and as well as in my youth.

"I look upon Grape-Nuts as a perfect food, and no one can gainsay but that it has a most prominent place in a rational, scientific system of feeding. Any one who uses this food will soon be convinced of the soundness of the principle upon which it is manufactured and may thereby know the facts as to its true worth." Read "The Road to Wellville," in pkgs. "There's a Reason."

Ever read the above letter? A new one appears from time to time. They are genuine, true, and full of human interest.

# Don't Poison Baby.

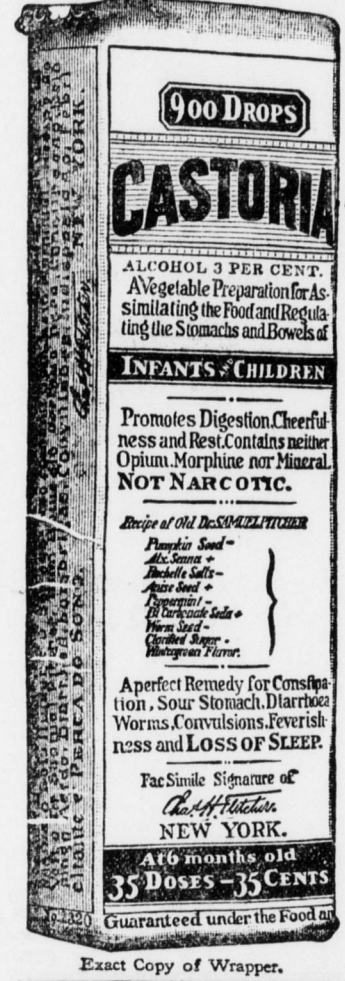
FORTY YEARS AGO almost every mother thought her child must have PAREGORIC or laudanum to make it sleep. These drugs will produce sleep, and A FEW DROPS TOO MANY will produce the SLEEP FROM WHICH THERE IS NO WAKING. Many are the children who have been killed or whose health has been ruined for life by 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 taste and smell of medicines containing opium are disguised, and sold under the names of "Drops," "Cordials," "Soothing Syrups," etc. You should not permit any medicine to be given to your children without you or your physician know of what it is composed. CASTORIA DOES NOT CONTAIN NARCOTICS, if it bears the signature of Chas. H. Fletcher.

## Letters from Prominent Physicians addressed to Chas. H. Fletcher.

Dr. J. W. Dinsdale, of Chicago, Ill., writes: "I use your Castoria and advise its use in all families where there are children." Dr. Alexander E. Mintie, of Cleveland, Ohio, says: "I have frequently prescribed your Castoria and have found it a reliable and pleasant remedy for children." Dr. J. S. Alexander, of Omaha, Neb., says: "A medicine so valuable and beneficial for children as your Castoria is, deserves the highest praise. I find it in use everywhere." Dr. J. A. McClellan, of Buffalo, N. Y., says: "I have frequently prescribed your Castoria for children and always got good results. In fact I use Castoria for my own children." Dr. J. W. Allen, of St. Louis, Mo., says: "I heartily endorse your Castoria. I have frequently prescribed it in my medical practice, and have always found it to do all that is claimed for it." Dr. C. H. Glidden, of St. Paul, Minn., says: "My experience as a practitioner with your Castoria has been highly satisfactory, and I consider it an excellent remedy for the young." Dr. H. D. Benner, of Philadelphia, Pa., says: "I have used your Castoria as a purgative in the cases of children for years past with the most happy effect, and fully endorse it as a safe remedy." Dr. J. A. Boardman, of Kansas City, Mo., says: "Your Castoria is a splendid remedy for children, known the world over. I use it in my practice and have no hesitation in recommending it for the complaints of infants and children." Dr. J. J. Mackey, of Brooklyn, N. Y., says: "I consider your Castoria an excellent preparation for children, being composed of reliable medicines and pleasant to the taste. A good remedy for all disturbances of the digestive organs."

## GENUINE CASTORIA ALWAYS Bears the Signature of

*Chas. H. Fletcher.*  
The Kind You Have Always Bought  
In Use For Over 30 Years.  
THE CENTAUR COMPANY, 314 N. 7TH STREET, NEW YORK CITY.



## The Young Idea.

"How many seed compartments are there in an apple?" he asked. No one answered. "And yet," continued the school inspector, "all of you eat many an apple in the course of a year and see the fruit every day, probably. You must learn to notice the little things in nature." The talk of the inspector impressed the children, and at recess the teacher overheard them discussing it. A little girl, getting her companions around her, gravely said: "Now, children, just suppose I am Mr. Taylor. You've got to know more about common things. If you don't you'll all grow up to be fools. Now, tell me, Minnie," she continued, looking sternly at a playmate, "how many feathers are there on a hen?"

## Deafness Cannot Be Cured

by local applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. 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, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces. We will give One Hundred Dollars for any case of Deafness caused by catarrh that cannot be cured by local applications. Send for circulars, free. F. J. CHILNEY & CO., Boston, O. Sold by Druggists, 75c. Take Hall's Family Pills for constipation.

## The Little Things.

"You shouldn't," the doctor advised, "permit yourself to be worried by little things." "Good heavens," replied the patient, "I wouldn't if I could help it, but how is a man who has married a widow with six children going to get around it?"

If You Have Common Sore Eyes, if lines blur or run together, you need PETTIT'S EYE SALVE, 25c. All druggists or Howard Bros., Buffalo, N. Y.

When the Lord makes a fool, the devil gives him a tongue.—Life.

Mrs. Winslow's Soothing Syrup. For children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 25c a bottle.

Wise women get their rights without talking about them.



### W.L. DOUGLAS SHOES

\$3.00 SHOES AT ALL PRICES FOR EVERY MEMBER OF THE FAMILY. MEN, BOYS, WOMEN, MISSES AND CHILDREN. W. L. Douglas makes and sells more men's \$2.50, \$3.00 and \$3.50 shoes than any other manufacturer in the world, because they hold their shape, fit better, wear longer, and are of greater value than any other shoes in the world to-day. W. L. Douglas \$4 and \$5 Gilt Edge Shoes Cannot Be Equalled At Any Price. CAUTION: W. L. Douglas name and price is stamped on bottom. Take No Substitutes. Sold by the best shoe dealers everywhere. Shoes mailed from factory to any part of the world. W. L. DOUGLAS, Brockton, Mass.

### SICK HEADACHE

Positively cured by these Little Pills. They also relieve Distress from Dyspepsia, Indigestion and Too Hearty Eating. A perfect remedy for Dizziness, Nausea, Drunkenness, Bad Taste in the Mouth, Coal-Tortured Tongue, Pain in the Side, TORPID LIVER. They regulate the Bowels. Purely Vegetable. SMALL PILL. SMALL DOSE. SMALL PRICE. Genuine Must Bear Fac-Simile Signature. REFUSE SUBSTITUTES.

### WESTERN CANADA

Some of the choicest lands for grain growing stock raising and mixed farming in the new districts of Saskatchewan and Alberta have recently been opened for settlement under the Revised Homestead Regulations. Entry may now be made by proxy (on certain conditions), by the father, mother, son, daughter, brother or sister of an intending homesteader. Thousands of homesteads of 160 acres each are thus now easily available in these great grain-growing, stock-raising and mixed farming sections. There you will find healthful climate, good neighbors, churches for family worship, schools for your children, good laws, splendid crops and railroads convenient to market. Entry fee in each case is \$10.00. For pamphlet, "Last Best West," particulars as to routes, best time to go and where to locate, apply to H. M. WILLIAMS, Toledo, Ohio. Law Building. Toledo, Ohio.

### MALARIATONE

For Coughs, Colds and Malarial Fevers. Works While You Work and Enables You to Do Better Work. Mailed on Receipt of 25 Cents. THE MEDATONE CO. 125 E. 23rd Street, NEW YORK

### PILES

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### SOLDIERS' WIDOWS

April 19, 1898, Congress passed a law giving all widows of Civil War soldiers, having 90 days honorable service, a pension of \$12.00 per month. Write us for papers. BYINGTON & WILSON, Atty's, Washington, D. C.

### NOTARIES AND JUSTICES HANDLING PENSION

vouchers should write for cash pension offer to T. H. H. & W. H. W. BYINGTON & WILSON, Atty's, Washington, D. C. (Over 27 years' experience).

### PATENTS

Patent Attorneys. Thompson's Eye Water. If afflicted with sore eyes, use Thompson's Eye Water.