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- \$4.00 to \$5.00 Actual Values:**
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SANITARY WATERING SYSTEMS
ARE EASY TO MAKE

Barrel May Be Used as Storage Tank to Provide Ample Supply at All Times; Small Engine Saves Labor of Pumping

Galvanized Rain Gutter Makes an Ideal Drinking Trough, Which Is Kept Clean Without Difficulty

By H. Armstrong Roberts
Practical Poultryman.

The providing of fresh water for poultry is a matter that is often neglected, and the results of such neglect are quickly evident in decreased egg yields and often in disease among the flocks. In this article Mr. Roberts shows how the poultryman may install an automatic system that will insure a constant and sanitary supply of water.

A CHICKEN would rather drink from a fountain of clean, pure water, yet that is no reason why she should be allowed to do so, any more than she should be permitted to eat tainted animal food, which any fowl will devour with great relish. Clean water in large quantities, easy of access, is one of the essentials to success with poultry, and the providing of it is one of the most laborious tasks in a commercial plant, unless there is some means of distributing it by mechanical power or gravity. The way in which a fowl drinks would seem to indicate that she consumes but few drops of water in a day, yet in reality she drinks close to a half-pint, especially during the heavy laying season, for the egg itself is something like sixty per cent. water. Thus we find that in a house of five hundred layers the actual daily water consumption is more than thirty gallons, or almost a barrel. Five these were to be carried by hand, five gallons a day, six trips to the well or from the well or other source of supply would be necessary. But this merely allows for actual consumption, with no surplus for cooling or sanitary purposes—a highly important consideration.

Water Should Be Kept Clean
Every time a fowl drinks she invariably washes her neck in the water. This may leave in the water only a few grains of dirt or mash feed, but in the course of a day the quantity of foreign matter carried into a drinking fountain is surprising. Moreover, unless the fountains are very carefully arranged, a certain amount of litter will also be scratched or dusted into the water. Where the birds are strong and healthy, they can throw off a fair amount of this contamination. As it is almost impossible to insure absolutely pure water in a fountain or open trough, it is advisable to have such fountains of large capacity, in order that the degree of pollution may be lessened and the dangers reduced to a minimum.

It is a simple and economical to provide five times the quantity of water actually consumed, than to attempt to keep fountains fresh and sanitary by scrubbing or changing them. For this reason, and because it seems to be human nature to forget to give adequate attention to drinking facilities, great pains should be taken to make the water system as near automatic and germproof as possible. With a little common mechanical ability and a few tools, this can be done at moderate expense.

If a poultry farm has access to a municipal water supply, or if there is a storage tank on the premises, the work of equipping the buildings with an automatic system is accomplished, since it is then a simple matter to install underground pipes connecting each house with the main supply. Where this convenience is not available, a small gasoline engine of about one horsepower, with a pumpjack erected over an ordinary forcepump, may be installed at a cost not exceeding \$50, and will prove entirely satisfactory. If this engine is to be operated by hand, a few minutes every day.

Instead of an overhead storage tank, a barrel of any kind, if suitably constructed, will serve to carry the water. The barrel may be stationed in the various buildings at a trifling cost, and give sufficient pressure for a unit-form supply. The barrel should be fastened on end with the head intact, and a neat hole bored in it for the feed pipe. In this way the interior of the barrel is protected from direct currents of outside air, consequently the water will not freeze to any extent in cold weather, at least not enough to retard its flow in a temperature above 10 degrees Fahrenheit.

Rain Gutter as Drinking Trough
An ordinary galvanized sheet iron rain gutter, or eave trough, makes an ideal contrivance for placing the water before the birds, and one that is kept clean most easily. It should be about fifteen feet long in a house of five hundred layers. This trough is fastened to the front wall of the building with hangers manufactured for the purpose. The rolled or rounded edge of the trough should face the side of the house, and the trough with a slight drain toward the end farther from the barrel. The tin-smith will solder a plate at each end of the trough, and also fit and raise a drain pipe farther from the barrel with an overflow pipe and a drain. Both of these may be of tubing half an inch in diameter, fitted so that they discharge outside the building.

The drain, of course, should lead from the lowest point in the trough, and be rounded nicely so that an ordinary cork may be used as a plug or stopper. This arrangement of facilities washing out the trough, and, if the overflow pipe is properly located, there need be no fear of the trough overflowing to the floor of the building. About three inches above the edges of the gutter, allowing just enough space for the fowls to raise and lower their heads in drinking, it is advisable to fit a ten-inch board of the entire length of the trough. This will prevent the birds from jumping into it or fouling the water. This board should be hinged as shown in the accompanying sketch, so that it may be raised for cleaning. Directly over the end of the trough bore a hole in the lowest practical point in the barrel and fit it with a wooden faucet or tap. The water supply is then under control and may be allowed either to trickle or to run in a steady stream.

In winter, when there is likelihood of the water in the trough freezing over night, it may be drained off at closing-up time, and the spigot wrapped with a piece of woolen cloth. Unfrozen water in the trough, if extremely low, the trough will not freeze in the daytime, inasmuch as the fowls are continually drinking it; and the spigot

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Clip the coupon—**COME EARLY**—and present with **15c**.

DEATH IS HURRYING WHEELS OF THE LAW

Behind the wheels of the more or less ponderous machinery of the law which have set in motion to obtain the release from the penitentiary of Hans Solbrig, is the Grim Guardian of Eternity. The shadow of a heinous presence is making W. L. Loeser, attorney for Solbrig, hurry.

Solbrig was sentenced fifteen months ago, to serve from three to ten years

in connection with the death of an inmate at the State asylum and when he was taken away, his counsel pleaded that he was anything but a well man. Mr. Loeser visited Solbrig in his cell yesterday and there learned of the swift ravages of the "white plague" that has Solbrig in its grip. The attorney wanted some information to present to the Pardon Board at its next session. This will be in September.

"How serious is Solbrig's condition?" inquired Mr. Loeser of the prison physician, as they were passing out of the corridor.

"Well," casually replied the doctor, "he might live until September."

Building Permits To-day—Building permits issued to-day include the following: Dr. C. E. Jausse, single story garage, rear of 1323 North Sixth street; 250; Shein and Kiwansky, remodeling 941 North Seventh street, \$250.

Lewis Kast Shoemaker Dead—Lewis Kast Shoemaker, for whom the Dauphin county court only one week

ago had been asked to appoint a guardian to handle his estate, died at the State insane asylum to-day. **Commissioners to Meet Monday**—The County Commissioners will meet Monday at the Suburban Country Club near Rutherford on Monday with a view to investigating its possibilities as a temporary house of detention. The midweek meeting of the commissioners will be held Monday instead of Wednesday as on Tuesday morning the board will go to Stroudsburg to attend the annual State convention of county commissioners.

Holler Has Paid In \$13,981.24—With the payment yesterday to County Treasurer A. H. Bailey of the \$4,468.47 of the 1914 excess fees, Prothonotary Harry F. Holler has paid into Dauphin county all told for 1914 and 1915, \$13,981.24. In addition to excess fees, Mr. Holler has paid in by quarters the following sums in fines, costs and jury fees first quarter, \$3,989.70; second, 2,119.95; third, \$1,193.87; fourth, \$2,102.24.



It Pays to KNOW

To make money with poultry, you have got to know how to hatch, feed and care for them. Guess-work is expensive and unnecessary.

The International Correspondence Schools will give you the exact information that you need. Their course in Poultry Farming is sensible, comprehensive and practical. It will help you to get the last dollar out of your flock.

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The I. C. S. will be glad to send you free, a handsome 56-page book that tells how you can get the special training that you need to make poultry-keeping profitable. They will show you the best way to hatch, how to feed and raise poultry, how to build poultry houses, how to establish and operate a money-making poultry farm, and how to breed stock that will win prizes.

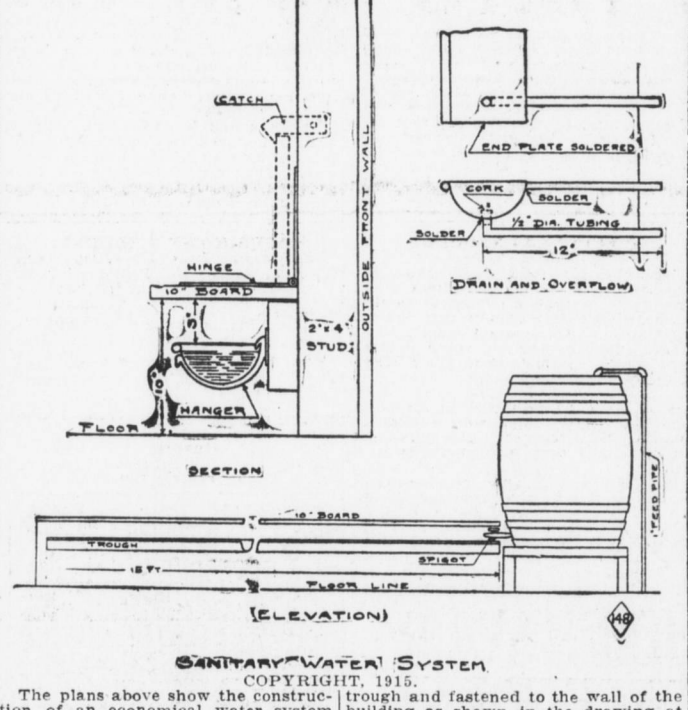
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The plans above show the construction of an economical water system that is sanitary, easy to construct and adaptable to any poultryhouse. The water is stored in the barrel, which is connected with the source of supply by a feed pipe. A hand forcepump or a pump driven by a small engine, may be used in filling the barrel. Near the bottom of the barrel is a spigot with which the flow of water is regulated. The spigot delivers the water into a trough, made from a galvanized eave-

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will not freeze because the water in the barrel is considerably warmer than the outside air.

System Proved Satisfactory
I have used a system of this kind for several years, for flocks of from 500 to 800 birds, and have never experienced a single disappointment. Occasionally some of the fowls will develop colds, or even roup, but they are promptly caught, treated, and isolated, thereby removing any danger of an epidemic. An abundant supply of water is furnished at all times, on the principle that if dirt does get in the trough it will quickly drain off. The troughs are brushed out daily, and about once a week a disinfectant is used.

For the poultryman willing to consider a little more trouble, I have contrived a similar arrangement that is absolutely impossible to contaminate. A trough is constructed exactly as before, and three inches above the center of this trough a half-inch galvanized iron pipe is run, drilled on the under side with holes 1-32 of an inch in diameter, spaced four inches apart. The pipe is connected to the barrel with a gatevalve that controls the pressure, and in this way just enough water is allowed to enter the pipe to maintain a steady drop from all the holes. When the hen reaches for a drop, capillary attraction takes place, whereupon the drop instantly increases to a tiny stream. The trough, of course, takes care of any waste, and it is covered with a wire grid so that the fowls cannot drink from it. No cleaning of any kind is required for this apparatus, since it is impossible for the birds to contaminate it. It is the nearest approach to an absolutely practical, sanitary water supply that I know of, and has but one disadvantage—it will not operate in a freezing temperature.

Summer Care of the Back Yard Flock
During the summer months the poultry kept in limited quarters requires more attention than at any other time. Lack of free range and insects and other foods which the farmer's flock secures, must be compensated for if the amateur poultryman is to secure best results. Next week Prof. A. C. Smith, head of the Department of Poultry Husbandry, University of Minnesota, will tell how to manage a back-yard flock most successfully, giving rules for care, feeding and sanitation. Watch for his article exclusively in the Telegraph next Saturday.

23 RESERVISTS ARRESTED
By Associated Press
Chicago, June 26.—Twenty-three reservists of the Serbian army alleged to be United States citizens, either native born or naturalized were held by federal officers here to-day for appearance before a United States Commissioner for examination as to a violation of the neutrality laws.

GERMAN OFFENSIVE REPULSED BY FIRE OF RUSSIAN GUNS
By Associated Press
Petrograd, June 25, via London, June 26, 3.48 A. M.—The following Russian official statement regarding the progress of hostilities was given out here to-night:

"During the course of the night of June 24 and the whole of the following day in the Shavli region an artillery duel proceeded with advance guard encounters on the front of Latskov-Popelny and along the right

bank of the Niemen River. To the west of the middle Niemen the German offensive during the night between the Kovo-Wirballen railway and the Anjala marshes was repulsed by our fire."



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RU-BER-OID contains no coal tar, asphaltum oils, wood fibre, paper, or other inflammable substances. It costs much less than either tin, slate or tile.

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