



Make Your Hens Pay Better—

Perhaps, Mr. Henman, you go "by the book" and think because you do, you're getting about all there is in poultry. Well! here's a point worth your further consideration. The expert knowledge which you've gathered from the published experiences of others *will not you many more good dollars* if you'll follow "The Dr. Hess Idea" for the care of hens, and mix in the morning mash which you give them a small daily portion of

DR. HESS Poultry PAN-A-CE-A

Dr. Hess Poultry Pan-a-ce-a makes more of the hen's food digest. That means less food lost through non-assimilation—more food converted through the proper channels into meaty eggs. Hens getting Dr. Hess Poultry Pan-a-ce-a stop robbing at the trough and begin paying in the basket. It makes healthy fowls and good profits a certainty. It carries young chicks safely past the many dangers of early chickenhood. It makes market birds and old fowls fat rapidly and it prevents such common poultry troubles as roup, cholera, gapes, etc. Ask your dealer for Dr. Hess Poultry Pan-a-ce-a. Remember "The Dr. Hess Idea—a poor ration well digested, is better than the best ration poorly digested." A penny's worth of Dr. Hess Poultry Pan-a-ce-a feeds thirty fowls one day. Sold on a written guarantee.

1½ lbs. 35c; 5 lbs. 85c; 12 lbs. \$1.75; 25 lb. pail \$3.50. Duty paid.

DR. HESS & CLARK, Ashland, Ohio, U. S. A.

Send 2c for Dr. Hess 48-page Poultry Book, free

DR. HESS STOCK FOOD acts on the digestive organs of horse, cow, steer, hog or sheep, to keep them healthy and active. Thus its use means increased appetite; more ration assimilated; more

milk in the pail and more flesh on the steer. It is a guaranteed preparation which no up-to-date farmer can afford to be without. Keeps farm stock in thriving condition—relieves minor stock ailments.

100 lbs. \$7.00. 25 lb. pail \$2.00. Duty paid.
Smaller quantities at a slight advance.
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When Writing Advertisers Mention this Paper.

QUESTIONS AND ANSWERS Miscellaneous.

THE FRANCHISE.

V. W. is a young man 22 years of age. Was born in New York State. Has lived ten years in Elgin Co., Ont., with women relatives, and worked their place for them simply as one of the family. Never was naturalized. Has he legally a vote on (a) Dominion elections; (b) Provincial elections; (c) Municipal elections?

Ontario.
Ans.—No.

SKIM MILK.

A creamery is doing business in this section, and charging 4 cents per lb. for manufacturing the butter. Our milk is measured at the weigh scales, so many inches, according to the amount in the can. When we get our skim milk, we are less three-sixteenths inch on every inch of milk in the can, for cream, and to compensate the man for dealing out the skim milk. He gets the surplus milk for dealing each man his skim milk. We are paid by test. What I want to know is this: Can the company legally hold back part of my skim milk to compensate the man for dealing it out, after charging 4 cents per lb. of butter? Don't you think each man is entitled to his own amount of milk, less the cream?

2. Don't you think the man should be paid out of the manufacturing expenses for dealing out the skim milk, each man getting what rightfully belongs to him?

3. What amount of skim milk would there be on 100 lbs. of milk, testing 4.2?

Ontario. A. B. C.
Ans.—1 and 2. These are matters for regulation by agreement between all the parties interested, or by the rules of the company, if the man furnishing the milk is a member of it.

3. This depends altogether upon how rich a cream is skimmed.

INSTALLING A HYDRAULIC RAM.

I have a powerful spring about 100 rods from my buildings, in good shape to put in a ram. Between the spring and the buildings there is an elevation of land, and the ram would have to force the water about sixty rods, and it would come sailing the rest of the way itself. I was thinking of ramming the water 60 rods to a tank on this elevation, and let it come down to the house and barn itself, as it would have a good force. I would like to get your ideas where I could get the best ram; how much would it cost? What would it cost for 1-inch galvanized piping for 100 rods, and how many feet deep would be necessary to put it in? I think three feet would do, for the land is a sandy loam, and never freezes.

Huron Co., Ont.

Ans.—As far as we can judge from statement of conditions, the plan proposed should work. We presume you have a fall from the spring. As little as 18 inches fall from spring to ram is sufficient to run one of these machines, but the slope must not be steeper than one to five or six. A supply or drive pipe carries the water from spring to ram, the principle of which is that of using a large volume of water to raise a fraction of this same water to the desired height. When sufficient water has flowed through to close the impetus valve, this causes the column of water in the drive pipe to force open the discharge valve leading into the air chamber compressing the air by means of a portion of the water driven in. When it comes to rest, the impetus valve falls of its own weight, and the water in the drive pipe again flows at full velocity. These steps being continually repeated, a steady supply of water is forced by the compressed air into the discharge pipe leading to where the water is wanted. The proportion of water that a machine will raise depends upon the ratio of head to height of discharge. We do not observe any advertisements of hydraulic rams in our columns, an oversight which manufacturers should rectify. We believe the prices range from about \$10 to \$50, depending upon the size. We do not know where the "best ram" is made, if there be any "best". A London, Ont., hardware house quotes 1-inch galvanized piping at \$6.35 per 100 feet. The cost of installation will depend on the men and rate of wages in the locality.