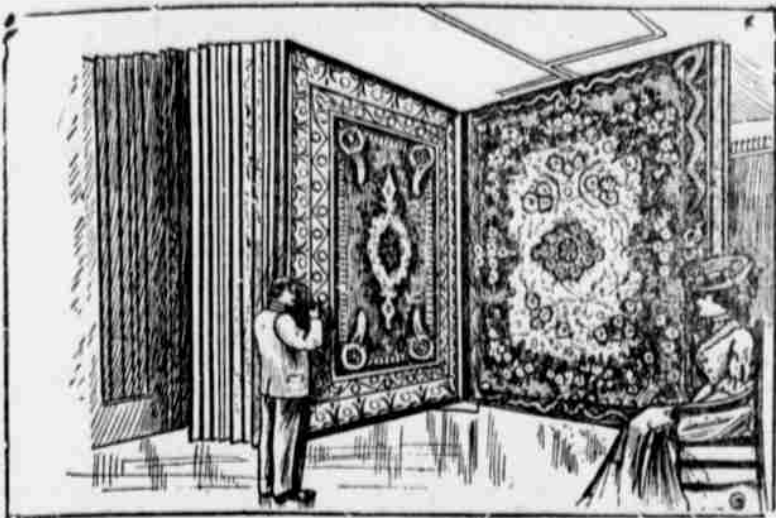


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### How to Make Poultry Raising Profitable

The improvement of the egg industry has recently received much attention. The bureau of chemistry of the United States department of agriculture has a staff of chemists and bacteriologists working in the food research laboratory at Omaha on various problems connected with the egg business. The bureau of animal industry has several scientists investigating other phases of the subject. This bureau also has a field experiment station at Frankfort, Kan., and is carrying on an extensive educational campaign for better eggs. The Kansas experiment station is making extensive researches on the improvement of the quality of eggs, on the sources of infection and their relative importance. The Massachusetts institute of technology has received a bequest of \$5000 for investigating problems.

With so many efforts bent toward doing away with the great losses incident to the egg industry, we may be confident that the practical application of the results of scientific research will soon replace our wasteful methods of handling eggs. The following discussion sets forth the subject in its present stage of development, and must prove helpful to all who put in practice the various suggestions.

The enormous losses connected with the egg industry are mainly due to three causes: 1, incubation; 2, decomposition; 3, breakage. The losses due to incubation can easily be prevented by having the hatching done as early as possible, and then keeping the males from the females. In this manner millions of dollars could be annually saved. It is almost incredible that our farmers should sustain the tremendous losses caused by

blood rings during the hot summer months, when it is so ridiculously easy to prevent them. Nevertheless such is the fact.

Many farmers seem to think that the hens don't lay so well when they are not with the roosters. There is absolutely no foundation to this belief as has been repeatedly demonstrated at the experiment stations. With the hot weather prevalent during the summer, only three days are necessary for the development of the embryo chicken to such an extent as to make the egg unfit for consumption. Nor is this all. The losses due to fertilization are manifold and far-reaching, because fertilization of the eggs also causes loss through decomposition.

The developing chicken within the egg takes material out of the shell to build up its body, therefore making the shell extremely weak and brittle. Such eggs break very easily and soil other eggs in the package with their contents. In a few hours the consequence is that more or less of the eggs spoil.

There are other factors besides mating which cause an infection by microbes during egg formation. In birds the oviduct, where the white and the shell are formed around the yolk, opens directly into the cloaca or bowels. The cloaca, being full of fecal matter, contains millions of bacteria. It is not surprising that some of these bacteria should make their way from the bowels into the oviduct, where they may get into the egg.

In general it may be said that intestinal troubles, especially constipation, favor the introduction of bacteria into the oviduct and therefore decrease the keeping quality of the eggs. Excessive fatness of the laying hens, greatly favors disorders of the egg producing and the digestive organs. This shows the importance of balanced rations and lots of range in the production not only of many but also of good eggs. The healthier the chickens the more eggs they will lay and the better will these eggs be.

#### MARSHFIELD DRUGGISTS DESERVES PRAISE

The Lockhart-Parsons Drug Co. deserve praise from Marshfield people for introducing here the simple buckthorn bark and glycerine mixture, known as Adler-i-ka. This simple German remedy first became famous by curing appendicitis and it has now been discovered that A SINGLE DOSE relieves sour stomach, gas on the stomach and constipation instantly. It's quick action is a big surprise to people.

## S. P. IS BIG TIMBER OWNER

Has Enough to Keep Mills in the Northwest Running 29 Years.

WASHINGTON, March 5.—In addition to being interested in the largest steamship lines of the country, and the greatest oil fields, the Southern Pacific Railroad Company is disclosed in a report of the Department of Commerce and Labor to be the largest holder of standing timber in the United States.

The joint holdings of the Southern Pacific and the Weyerhaeuser interests would, according to the report, keep all the sawmills in California, Oregon and Washington going for 29 years at the present rate of output. Their timber would keep all the 46,584 sawmills in the United States going at full speed for four and a half years.

Adding the holdings of the Northern Pacific to those of the Southern Pacific and the Weyerhaeuser interests, all the sawmills on the Pacific coast could be kept going for 39 years, and all those of the United States for nearly six years.

The holdings of these three interests are shown in the report as follows: The Southern Pacific, the Weyerhaeuser Timber and Northern Pacific companies own 106, 96 and 36 billion feet of standing timber, respectively, in the Pacific Northwest.

egg formation. It can be prevented by keeping the eggs in a cool, dry place. As long as the eggs are perfectly dry the bacteria which are always present cannot get through the minute holes in the shell. But as soon as the eggs are wet many bacteria grow and move through the shell, infect the egg contents and spoil the egg.

Cold is one of the most powerful aids to the egg industry. It prevents the bacteria from penetrating the egg shell, because it checks their growth and motility. Before all, it checks the growth of the bacteria which are already present in the eggs, which it thus prevents from spoiling. It also prevents the shrinking of the eggs, because it checks the evaporation of water from the egg contents through the pores of the shell. Shrunken eggs, of course, do not bring as good a price as nice full eggs.

The cooler the farmer keeps his eggs the better will be the price they command, provided that the buyer catches them.

Clean nests make the washing unnecessary. If it should be necessary in exceptional cases, the egg should be rinsed in clean water and then dried thoroughly. The packers generally object to washed eggs, because washing removes the fine film which covers the shell, thereby facilitating the entrance of bacteria. Eggs should never be stored in hot, damp places, nor in places where strong odors are prevalent, because they absorb odors very rapidly.

Another factor which causes much loss in the egg industry is breakage. This can largely be prevented by handling the eggs carefully, packing them well, etc. The losses due to broken eggs are not limited to the broken eggs themselves, but, as pointed out above, also affect the sound eggs. This is because the contents of the broken eggs soil many of the sound eggs, thereby favoring the entrance of microbes into such eggs.

For this reason no weak-shelled eggs, checked eggs, etc., should be shipped with sound eggs. All eggs should be candled before shipment and everything that is not in good condition should be kept at home. The losses due to breakage can be greatly reduced by supplying the hens with plenty of oyster shell. Naturally a thick, strong regular shell does not allow evaporation to proceed as rapidly as a thin, weak shell.

#### RIDDLE HOME BURNS.

House Destroyed While Owner Visits With Friend.

ROSEBURG, March 6.—The home of Mrs. Clyde Catching of Riddle was totally destroyed by fire. The loss, which includes the dwelling and furnishings will probably total \$1500 upon which she carried a few hundred dollars' insurance. Mrs. Catching had just arrived here from Riddle to spend a few days visiting with Mr. and Mrs. H. J. Robinson. Three hours later she received a telephone message to the effect that her home was burning and that all efforts to extinguish the flames had failed.

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is sweeping over the town and young and old are alike affected. Foley's Honey & Tar Compound is a quick safe reliable family medicine for coughs and colds. A. S. Jones, of Lee Pharmacy, Chico, Calif., says: "Foley's Honey and Tar Compound has no equal, and I recommend it as containing no narcotics or other harmful properties." For sale by Lockhart & Parsons, The Busy Corner.

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