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To supplement these waste cabbage leaves and mangels may be given, for hens enjoy a little succulence as well as do dairy cows. Waste clover or alfalfa leaves are always welcomed and are relished either dry or steamed. One hundred hens will eat from a peck to a bushel of these leaves in a day. To nothing on the farm can surplus milk be fed to better advantage and a little of this daily, along with the table scraps, will go far toward taking the place of a great scrap, of which the farmer is proud, but which is unproductive. The abundance of bird gifts to the farmer need bill by assisting in more complete digestion.

Care saves the feed, for with good care and housing, even the cheapest feeds may give better results than higher priced grains when poor care is given.

**S**TRONG fertile eggs are desired during the hatching season, and in order to insure that the eggs be strong and fertile, it is necessary that the birds be carefully attended from the time of the start of incubation. Healthy, vigorous birds with abundance of vitality that will spend the winter in storing up reserve energy will produce eggs that will hatch well. Eggs, are only secured through the use of careful selection, supplemented by careful wintering. Clean, dry quarters with plenty of ventilation and sunlight are essential for the health of the birds. Good water and air drainage are also necessary. Dirt floors are probably the best if the soil is suitable, but covered with sawdust or cypress shavings is better. Small flocks usually give better satisfaction than large ones for breeding purposes. Fresh air and sunshine are most important with breeding stock. That is, the birds should have a lot of open space, a good view, cloth floor or combination of grass and cloth, seem to give the best results. Openings should always be placed so that the sun may reach every part of the house and the birds during the day and provide an abundance of ventilation without draft in all kinds of weather. "Sunshine is the best disinfectant and fresh air the best tonic."

The house should be so comfortable that stock will not care to go out during the day, but provision should be made that breeding stock may go out of doors whenever they desire. This ensures the taking of sufficient exercise. A sheltered run outside with plenty of litter in the house for them to scratch in will encourage egg pro-

Less protein is required in the feed

of breeders' stock than in that of laying stock, but otherwise the feed should be about the same. A larger proportion of whole grain and a lesser amount of beet scrap or other animal products than in the Green's foods should be given in abundance and make up one of the best. A hundred birds will consume a ton of mangels in a winter. A little clover hay in the litter is preferred. Birds will pick the leaves off, prove it is good, and then go to the ration. Milk, and preferably sour milk, is the greatest of all poultry foods. Better egg production, higher hatchability, and less susceptibility to stronger chicks may be secured if it is fed. Remove from the breeding pen any birds that show signs of stuntedness or weakness. Quality in eggs means more and better chicks, less labor and more profit.

By Michael K. Boyer.

**S**ELF-RELIANCE is an important factor in the poultry business. There are a great many people in this world who, while they can accurately carry out the orders of others, are unable to help themselves in cases of emergency. They have no self-reliance. The moment that a problem confronts them they must seek advice. Such men rarely ever succeed in business. Poultry culture not only needs a large bump of self-reliance, but it calls for men and women who can plan the work and help themselves. There are men born to be slaves, just as there are men born to be masters.

Problems arise almost daily which call for careful thinking and experimenting, and at times they tax a man's ability, often upsetting his generally good nature. The first duty is to endeavor to get at the bottom of the trouble, and try to ascertain the cause. A little careful work will often accomplish this. Make every effort to solve the enigma. Then if unsuccessful, it is time to consult some one

It is necessary that good poultry books be carefully read and studied, and that before entering upon the work, a good working knowledge be obtained. But books can only teach the rudiments; it remains for personal application to work out the problems. The business calls for brain work. It not only suffices to read and study, but actual work must be done—practice makes perfect—and then time, money and patience will be saved.

As a rule, the beginner starts with certain breeds, and before he has time to thoroughly become acquainted with it, he forms a new attachment. The booming, tempting arguments given by some new arrival so enthralls him that he makes a change, and this changing he keeps up until he has come to his senses, ultimately realizing that success can come only by sticking to one breed and one system. He should work out the problems and stick to the work.

The beginner, too, needs to investigate the breeds, and the effects of certain food for his stock and his climate. Breeds that are profitable in some places are unprofitable in others. The same holds true for the different flocks are ideal, and others are a failure. All this must be carefully studied and experimented with. The same advice would apply to the mechanical part. The directions for running incinerators might be effective in one place, but not at points along the coast. Certain breeds and ideas in housing might be all right in one part of the country and all wrong in another. And so one could continue to enumerate. The point is for the beginner to first book himself with the idea that he can learn from the experts; and then only give instruction to his locality, his conditions, his finances, and his previous experience.



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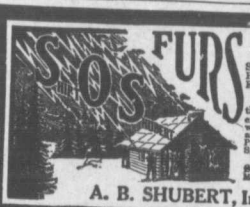


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