

AGRICULTURE

Back to Nature in Rearing Poultry—Many Think Chicks Hatched Hens Are Superior to Incubator Kind—Four Important Factors—Stock Must Be Good, and Young Ones Must Be Well Fed and Protected.

(Prof. F. H. Stoneburn in N. Y. Sun.)
Chicks hatched and reared by hen power are, in the opinion of many experienced poultry growers, possessed of greater vitality and physical vigor than those produced by artificial methods. That this opinion is well founded has not been demonstrated. However, it is true that naturally reared chicks are usually good ones, and it is always good policy to raise a few of them in a small way one may well use this system exclusively, especially if no fall or winter chicks are required.

Hens have been rearing their broods for centuries, much longer than man has been building brooders. They instinctively give their babies the best of care and when the attendant does not satisfy the results will usually be entirely satisfied.

On the majority of large poultry farms the artificial brooder is mainly relied upon, but there are many establishments of considerable size where hen brooding is followed exclusively. The detail work of caring for several hundred hens and their families is tremendous, but when a system of management is carefully worked out and all necessities provided the task is greatly simplified. Right here the attendant has an opportunity to make use of his knowledge and experience and, to use an old expression, "make his head save his heels." He can anticipate trouble and avoid it. He can keep the broods comfortable and protect them so that the losses which invariably accompany careless management.

To be successful in raising chicks, the natural method several factors demand consideration. The chicks themselves must be of good quality; they must be kept comfortable; they must be protected; they must be properly fed.

Regarding the first consideration, little need be said in addition to what has already appeared in previous articles in this series. Weaklings are not only valueless, but they are an actual source of loss. Even if they survive until they reach maturity they are the first to contract disease which most appear, and usually pass layers, and if by any chance they are permitted to get into the breeding flock they merely produce more weaklings, thus causing endless trouble. It is always part of wisdom to promptly kill all inferior chicks at hatching time, and take a small loss then, rather than to provide a large one later.

It is to provide comfortable conditions for the growing youngsters. Under this head we may group several important things. First is the matter of space. The broods should be kept in a well-ventilated, dry, and comfortable place. The broods must be protected from the elements. The broods must be protected from the elements. The broods must be protected from the elements.

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During the daytime the hens will faithfully guard their young, sounding alarm when any danger threatens. For this reason it is always good policy to permit the hens to range with their broods, or at least give them a large open run adjoining the coop, from which they can keep an eye on the chicks. Then provide a number of shelters under which the youngsters can hide when warned and few of them will be killed by crows or hawks. A good patch of corn makes excellent cover, and it takes a lively bird of prey to pick up a chick in it.

Lice and mites do great damage, stunting the growth of their victims if not actually killing them. The various kinds of poultry lice are not entirely new, but the use of any good insect or lice killing powder. This treatment has little effect on the blood sucking mites, since these make their headquarters in cracks in the floor or walls of the coops and visit the chicks only for the purpose of securing food. Keep the coops clean, use plenty of white wash or liquid lime, and keep the floor and walls of the coops and visit the chicks only for the purpose of securing food.

In certain sections of the country the gap worm does a great amount of damage. This parasite is not easily handled, since its life history is not entirely known. Apparently it is carried by the common earth worm, and is found in greatest numbers in fields where chickens have been grown for several successive years.

If this trouble maker appears it is a good plan to temporarily abandon the infected area and rear the chicks in an uninfected land. In many cases this scheme cannot be adopted because of limitations of space, and it then becomes necessary to use other methods. The plan usually recommended is to apply a liberal amount of lime to the surface of the land, plough or spade deeply, and grow a heavy crop of green manure, which will smother the gap worms and prevent their coming back.

Many of the most destructive chick diseases are due to the presence of specific disease germs and moulds. This indicates the necessity of disinfecting the coops, occasionally keeping buildings and runs clean and in sanitary condition. This applies also to the various dishes used in feeding and watering. Spray water used in feeding occasionally with any good disinfectant costs but a trifle, and the practice may prevent contagious disease from so easily entering a foothold in the flock and escape heavy loss.

The bodies of all chicks that die, regardless of the cause should be buried. Then they will never aid in spreading disease. Much loss is caused each season by preventable accidents. Chicks are drowned in deep pans, holes, or basins. Swinging water collects after each shower. Drains and doors claim their victims. Loose boards fall and crush the youngsters. The floors of coops kept in damp places are flooded during heavy rains and the chicks drowned or chilled. Coop doors are so high from the ground that the small chicks cannot get out. They are left outside to perish. V-shaped openings in fencing or between the strips on the sides of feed troughs cause deaths by hangings.

It is scarcely necessary to point out methods through which loss from these various causes may be prevented. If one understands the danger he will not permit such faulty conditions to exist. The fourth factor mentioned food supply is too important to discuss in the limited amount of space available for this article. It will be treated at length in a later article in this series.

There is a widespread opinion that hen chicks are more robust than those hatched in incubators. This is not true, but it is a fact which is being demonstrated on unnumbered city and village lots. But the intensive system of raising the plan which must necessarily be adopted by the majority of town dwellers, demands more work and closer attention to detail on the part of the attendant. A very few chicks can be reared without trouble in a small way, but each season, but when the number is increased to the point where the ground is denuded of grass, becomes polluted by the accumulated droppings and infected with disease germs and poultry parasites, trouble appears.

As a general proposition, then, where a large amount of poultry is grown, it pays to give the young stock the greatest possible freedom and so avoid the dangers of overcrowding. When chicks are on a large range they enjoy natural conditions, find much food which they can pick up for themselves, and are free from the constant worry of confinement. This means less development, less disease and usually less dying.

The practice of "doubling up" broods and giving each hen more chicks than she can have and care for is also the cause of much loss. Early in the season the broods should be small, so that all the chicks may find shelter and warmth beneath the hen. As the season advances and the warm weather comes on, the broods may be made larger, since there is less danger of chilling. About fifteen chicks is a good average number to be introduced to hens like Plymouth Rocks or Orpingtons.

Finally, chick comfort depends to a very large extent upon the characteristics of the mother. Nervous, cross, flighty hens are undesirable. Quiet, gentle individuals, which never tread upon or bore their chicks, are always ready to protect them when they become chilled or tired, will bring through to maturity a large proportion of the babies entrusted to their care.

Protection from heat and cold, sun and storm has been touched upon. But, unfortunately, this is not all. We must guard against enemies of all kinds—parasites, disease and accidents.

Among the common enemies are hawks, crows, owls, rats, cats, skunks and weasels. These all enjoy an opportunity to do harm.

When cutting new cakes, dip your knife in cold water before cutting each slice.

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GROWING POTATOES BY ELECTRICITY

POSSIBILITY NOW
Recent Experiments May Mean Much to New Brunswick in Time

OTHER THINGS NEEDED
Those Interested in Agriculture Say Better Education of Farmers and the Use of More Fertilizers Come First—Good Opportunity, However, if Scheme is Generally Adopted Following Successful Experiments in Sweden and Great Britain.

Farming with the aid of electricity to run the machinery is new but it is itself old-fashioned compared with the idea of making electricity the work of the sun in the growth of the crop. Yet that is being seriously put forward by hard-headed men in Ontario where electricity has been used for the work of the sun in the growth of the crop. Yet that is being seriously put forward by hard-headed men in Ontario where electricity has been used for the work of the sun in the growth of the crop.

That the agricultural possibilities of the maritime provinces have attracted widespread attention is proven by the presence here of Porter Wallace Post, agricultural expert of the Baltimore & Ohio railway who was sent down here to report more particularly on fruit and potato growing facilities. Mr. Post was for years a member of the West Virginia University staff and is an recognized authority on agricultural topics. His brother, Clarence P. Post, is well-known as a writer for the Saturday Evening Post.

Mr. Post made a particular study of the Annapolis district and after his visit, he will be understood, report favorably on the possibility of opening up a larger trade between the maritime provinces and the central States of more interest to New Brunswick perhaps was his investigation of the potato trade and he is a firm believer that the potato here can be successfully sent into the Southern States where the sweet potato is grown.

The results of this experiment were found to be startling. In the matter of wheat the electrified area produced 33% more than the non-electrified area. In the matter of corn the electrified area produced 25% more than the non-electrified area. In the matter of oats the electrified area produced 20% more than the non-electrified area. In the matter of barley the electrified area produced 15% more than the non-electrified area. In the matter of clover the electrified area produced 10% more than the non-electrified area. In the matter of alfalfa the electrified area produced 5% more than the non-electrified area. In the matter of timothy the electrified area produced 5% more than the non-electrified area. In the matter of hay the electrified area produced 5% more than the non-electrified area. In the matter of straw the electrified area produced 5% more than the non-electrified area. In the matter of grain the electrified area produced 5% more than the non-electrified area. 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