

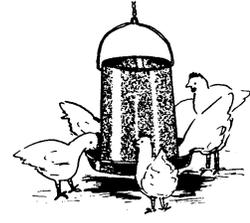


The University of Georgia

Cooperative Extension Service

College of Agricultural and Environmental Sciences / Athens, Georgia 30602-4356

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BACKYARD FLOCK TIP . . .

SEVERAL REASONS WHY YOUR HENS MAY STOP LAYING EGGS

It is not unusual for the Extension Service to get calls from backyard flock owners wanting to know why their hens have stopped laying eggs. There are a lot of reasons why this might happen and all cannot be outlined here. However, some causes are more common than others and the flock owner should consider these in seeking the solution to the problem.

Declining day length.

Hens are sensitive to day length, and particularly to the direction in which day length is changing, when it comes to laying eggs. Declining day lengths discourage egg production. It is not unusual for a flock owner to have hens go out of production in the latter part of summer and in the fall because the days are getting shorter. Commercial egg producers avoid this problem and maintain egg production year round by using artificial lighting to give hens a long day length no matter what the season. A backyard flock owner can do much the same thing if the flock roosts inside a building by keeping lights on long enough to simulate an appropriately long day length. A good rule of thumb is that the total length of light per day, both artificial and natural, should be no shorter than the longest natural day length the hens will experience. Therefore, the amount of artificial light needed will be minimal in summer and greatest in winter.

Improper nutrition.

Hens need a balanced and adequate diet to maintain egg production. Each egg contains significant amounts of protein and energy, which must first be consumed by the hen as part of its daily food intake. Too little dietary energy or an imbalance of amino acids can cause depressed egg production. Many backyard flock owners don't realize how much calcium a hen needs. The shell of each egg contains roughly 2 grams of calcium. Since the skeleton of a typical modern egg-laying breed of hen only contains about 20 grams of calcium, each egg represents 10% of the hen's total bodily calcium. While the hen's skeleton acts as a calcium reserve to supply the demands of egg

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production, this reserve is rapidly depleted in the absence of an abundant calcium source in the feed eaten by the bird. In such a situation the hen will stop laying eggs. To maintain egg production, flock owners should feed only a prepared layer ration balanced to meet a hen's nutritional requirements, or at least provide a particulate source of calcium, e.g. suitably sized ground limestone or oyster shell, that the birds can eat selectively according to their needs. The layer ration or calcium source should be available from a local feed supply store. Occasionally, a feed mixing error causes important nutrients like salt to be left out of the diet. Insufficient dietary salt will depress egg production. Conversely, in some regions, well water may have too much dissolved sodium, which also will depress egg production. If water quality is suspected to be a problem, a water mineral analysis can be obtained through your county extension office, but be sure to contact the office for instructions before drawing the water sample.

Broodiness.

Some breeds of hens are prone to become broody, meaning that they will try to incubate eggs to make them hatch. When this happens, they stop laying eggs. They are more likely to become broody if they are allowed to accumulate eggs in a nest. The problem is most prevalent during spring under natural daylight as the hens come into production due to the stimulating effects of increasing day length. To avoid this problem, it is best to pick up eggs at least once a day to prevent the hen from building a clutch. Daily egg gathering is also an important practice to preserve the safety and quality of eggs for human consumption. If the housing facilities permit, hens can be moved to different living quarters periodically to disrupt their attachment to specific nesting sites.

Molt.

After a hen has been producing eggs for several months, she becomes increasingly likely to molt. Molting and egg production are not mutually compatible, so when molting occurs, egg production ceases. The rest from egg laying allows the hen to restore its plumage condition by shedding old feathers and growing new ones. At the same time, the hen's reproductive tract is rejuvenated, allowing it to increase its rate of egg production and produce higher quality eggs when it returns to lay. Under natural day lengths, molting tends to coincide with the change in season so that hens molt in the fall after they cease egg production due to declining day lengths. In these circumstances, it is normal for all the hens in a flock to go out of production and molt more or less in synchrony. However, if artificial lighting is provided, a hen may molt at any time of year and not in synchrony with other hens. If this happens, she should return to lay in several weeks.

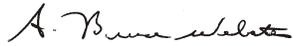
Age.

A hen can live for many years. It is not unusual for a backyard flock owner to keep several generations of birds and lose track of how old some hens are. Much as in other species, an aging hen eventually will lose its ability to be reproductively active and stop producing eggs.

Disease.

Many poultry diseases will affect egg production. Often the birds will show symptoms of illness, but sometimes they will not. If a disease is suspected, it is important to consult a poultry veterinarian without delay. A timely diagnosis may allow effective treatment for some diseases. In the case of certain virulent diseases such as highly pathogenic Avian Influenza, a speedy diagnosis may prevent losses of whole flocks in entire regions, and minimize the risk of zoonotic transmission of deadly disease from chickens to humans, e.g., bird flu. Consult your county agent

for the nearest diagnostic lab to submit birds for disease evaluation. Further information on actions to take in the case of disease can be found in the November, 2004, Backyard Flock Tip published by the University of Georgia Cooperative Extension Service entitled, "My Flock's Health is in Question: What Should I do?" Copies may be obtained from your county agent or by accessing the U G A P o u l t r y S c i e n c e D e p a r t m e n t w e b s i t e a t <http://department.caes.uga.edu/poultry/extension/exthome.htm> and clicking "Poultry Tips".



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"Your local County Extension Agent is a source of more information on this subject."