HOW TO REDUCE LOSSES AMONG CHICKS BY PREVENTING DISEASE

Critical Period Is During the First Two or Three Weeks

When and What to Feed Are the Most Important Con-

By A. C. SMITH Head of Dept. of Poultry Husband-, University of Minnesota.

The subject of heavy losses among chicks has been the great problem for years among poultry raisers. It has been deeply investigated, with the result that experts now know pretty well what to do to insure the raising of a large percentage of the young.

What and when to feed the young seems to have been proven to be the most important problem to solve. Of course, there are other causes of disease among chicks, such as exposure to cold, bad ventilation, lack of exercise at the proper age, but if the feeding problem is solved the poultryman can figure he has won a big battle.

The following article handles the subject in a broad and instructive manner.



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"The I. C. S. Poultry Farming Course taught me many things that would have taken years to find out; any one who finishes this Course can start right in and make a success of poultry raising," says C. L. Swartz, Detroit, Mich.

"In fifteen years of poultry keeping I have not had such a successful season as I had last winter and I have only the I. C. S. to thank for my success," says J. B. Gallagher, 418 Broad St., Bethlehem, Pa. "I thought I knew how to keep poultry, but every lesson taught me new points. I consider the Course the best investment of my life."

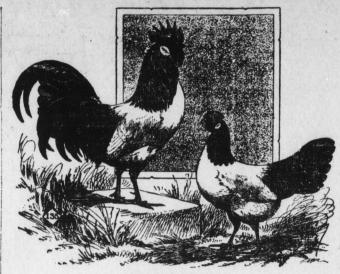
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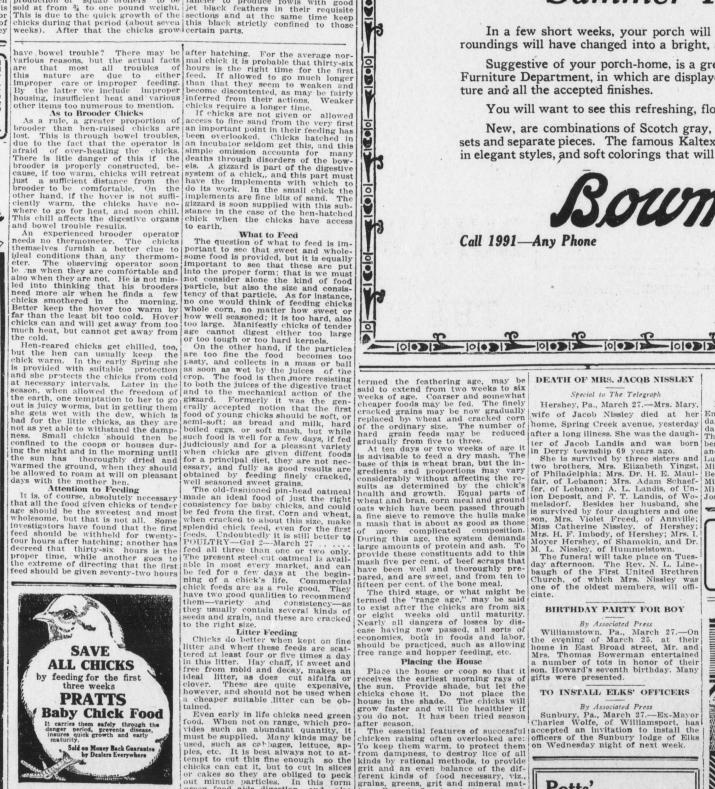
COPYRIGHT, 1915. **LAKENVELDERS** By Louis Paul Graham

The great loss of chick life has been studied long and diligently, and because the loss was not prevented, the students came to the conclusion that there must be some mysterious reason for these big losses, which nave sounded the death-knell of many large undertakings of this character.

No one in these days disputes the germ theory of disease, but germs or no germs, chicks that hatch strong and normally should be and can be raised if properly fed and cared for. Eight or nine-tenths of the losses and still deal with facts as they are, most of the losses by disease occur while the chick is still young, before it becomes three weeks old persone it is compared to the proper feeding.

To avoid the technical side of the case and still deal with facts as they are, most of the losses by disease occur while the chick is still young, before it becomes three weeks old persone it is compared to the proper feeding.

To avoid the technical side of the case and still deal with facts as they are, most of the losses by disease occur while the chick is still young, before it becomes three weeks old persone it is successfully in small yards. It is not in any sense a table fowl, though, like all the lighter bodied with the production of "squab broilers" to be sold at from ¾ to one pound weight. This is due to the quick growth of the agreat majority. Why should they reach maturity and at that time they reach matur



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litter and when these feeds are scattered at least four or five times a day in this litter. Hay chaff, if sweet and free from mold and decay, makes an ideal litter, as does cut afalfa or clover. These are quite expensive, however, and should not be used when a cheaper suitable litter can be obtained.

Even early in life chicks need green food. When not on range, which provides such an abundant quantity, it must be supplied. Many kinds may be used, such as cabbages, lettuce, apples, etc. It is best always not to attempt to cut this fine enough so the chicks can eat it, but to cut in slices or cakes so they are obliged to peek out minute particles. In this form green food aids digestion and also keeps the chicks busy.

Second Stage of Chick's Life
The second stage, or what may be

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Natural vs. Artificial Methods

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Artificial Methods

The rapid development of artificial methods of raising chicks has' only been possible through the improved appliances for brooding tested out by long experience.

The natural method of raising the young would be all but impossible on the mammoth commercial poultry farms of to-day. How man is usurping the dutles of the unreliable hen with his latest devices and inventions and the advantages of the artificial methods will be told in an exceptionally interesting article next week.

Look for it appearing exclusively in the Telegraph next Saturday evening.

ENGAGEMENT ANNOUNCED

Special to The Telegraph
Marietta, Pa., March 27.—Mr. and
Mrs. W. F. Tull announce the engagement of their daughter, Miss Verna
Pauline, to Warren V. Zellers, of Lancaster

in elegant styles, and soft colorings that will not fade.

By Associated Press
Sunbury, Pa., March 27.—Ex-Mayor
Charles Wolfe, of Williamsport, has
accepted an invitation to install the
officers of the Sunbury lodge of Elks
on Wednesday night of next week.

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You will want to see this refreshing, flower-decked, mid-summer scene.

New, are combinations of Scotch gray, French gray, and green with white, in sets and separate pieces. The famous Kaltex line (similar to illustration) is featured

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> Special to The Telegraph Pa., March 27 .- Mrs. Louis Enola, Pa., March 27.—The Ensor, of South Enola, gave a birtheday surprise party in honor of her daughter June's fifth birthday on Thursday afternoon. The howe was beautifully decorated for the ockasion and refreshments were served to Miss Lulu Maguire, Miss Margaret Curling, Miss Therma Bender, Miss Evely Bender, Miss Elsie Campbell, Miss Midred Lutz, Miss Jeanette Lyons, Miss June Ensor, Russel Melhart and Joseph Ensor.
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> Williamstown, Pa., March 27.—The Rev. Mr. Payer tendered a farewell reception at the Evangelical parsonage Tuesday eventually the Payer tendered a farewell reception at the Evangelical parsonage Tuesday eventually parsonage Tuesday eventually parsonage Tuesday eventual

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Special to The Telegraph Williamstown, Pa., March 27.-The

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