

THE FEEDING AND CARE OF BABY CHICKS, BY A MAN WHO KNOWS HOW

The Feeding and Care of the Baby Chicks is a Very Important Phase of Poultry Farming, and Upon These Depends in No Small Measure the Success of One Engaged in the Industry.

Editor takesman: Feeding baby chicks is a very important phase of poultry farming. Upon the feeding and care of young chicks depends in no small measure whether they develop into fine, well matured stock or become culls and weaklings. Of course, no amount of skill in feeding young chickens can overcome inherited constitutional weakness. Such chicks, if there are any in the brood, should be culled out at once. If the chicks are from healthy, vigorous hens that have never been seriously sick, and are absolutely free from white diarrhoea, it is quite probable that chicks from such hens will be worth feeding high priced grain

and will repay the time and attention given them. Probably no other creature relishes or requires, for best development, such a large variety of food as a chicken does. It takes many varieties of raw materials to develop the bones, muscles, feathers and flesh of the chicken. If any essential ingredient in the feed is lacking, the chick may be lacking in that particular quality which the omitted food is calculated to develop. Hence it is very essential to feed a very well balanced ration to growing chicks.

The first food which may be given from 48 to 60 hours after the chicks hatch should be water and fine grit if the chicks are being raised artificially, or if the chicks are being brooded with hens the grain and grit may be given at the same time. For many years, I have used, as the first grain feed for young chicks, chick rolled oats. On our farm they are fed this in small quantities five times a day for the first three or four days, and at the end of this time, chick feed (any good commercial brand) is gradually added to the ration of chicken rolled oats until in about five or six days the major portion of the ration is commercial chick feed and at the end of about 15 days the rolled oats may be omitted entirely. I do not pretend to say that this is the only safe way to start feeding young chicks, but I have used it for years with excellent results, and I see no reason whatever for changing it.

Young chicks (or in fact any kind of fowls) should be kept active. Activity is absolutely essential to health. Therefore, the periods of feeding young chicks should be arranged so that they will be kept busy and active all day. By feeding little and often this can be accomplished. Baby chicks should be fed five times a day to start with, and as they grow older the feedings may be reduced in number until the regular schedule of three feedings a day is adopted. In order to keep the feedings during the day should be somewhat small. I mean by that that at no time during the day should they be permitted to completely satisfy their hunger. Only at night should they be allowed to fill their crops full.

It may be that some people have poor success in raising young chicks because of overfeeding. But I am a firm believer in the practice of letting the chicks fill their crops at night. I can not recall losing a single chick from the cause of heavy feeding. Of course, this practice may not be successful with everyone, but I have found it very successful.

I do not believe in the practice of giving a mash of any description to chicks under the age of five days. It has been determined by experiment that in some cases feeding heavily on mash right at the start sometimes causes leg weakness. There is nothing so fine as a tissue and muscle builder as cracked grains for young chicks. It is the vital part of their ration. The commercial chick feeds are being so scientifically put up that



A typical and modern Western Oregon Poultry House

no one can make a mistake in feeding any of the best brands of good goods. Years ago, I always mixed my own chick feeds. But with the advent of guaranteed commercial chick feeds, I stopped that practice and have been using the latter, always with excellent results.

A good commercial chick mash should be added to the grain ration about the fifth or sixth day. Chicks never develop so rapidly when fed only on cracked grains. And since a somewhat rapid development is desirable, ground grain must be fed. Everything considered, it is a better practice to feed the mash dry to young chicks. It should be before them constantly after they are five or six days old, unless, of course, they have a tendency to consume so much at one time that it causes them to become sluggish, in which case the hoppers should be shut a part of the day. Young chicks should never be permitted to become inactive during the day.

There is a difference—feeding hen raised chicks and those brooded artificially. The chicks raised under hovers should be fed in short cut straw, which should cover the floor of the brooder house to a depth of about three-quarters of an inch or a little less to start with. The depth of the litter should be gradually increased as the chicks grow older. It is best, however, for the first three or four days to feed the artificially raised chicks on smooth, clean boards on top of the litter. By this means, every chick will get its share of food. The amount to feed can also be better gauged if the chicks are fed on boards for the first few days.

For best development, chicks need more ash, or mineral matter, than can be supplied by the use of grain alone. In the natural state, where fowls roamed over large areas of land, it is probable that they obtained this supply of mineral matter from the soil. But it is quite necessary to supply this material to the chicks raised on limited range. The best way to supply this is by the use of a good grade of granulated bone meal. However, if a person uses commercial chick feeds, this material is usually made a part of the ingredients composing the mash.

The necessity for charcoal in the ration, and its health promoting tendency, are too well known to need discussion here.

The vice of toe picking should be carefully watched. When chicks are brooded in large flocks, this sometimes becomes a serious factor to contend with. This is a trait caused, mainly, by too close confinement. If the chicks are constantly kept active, there will be less danger of this pernicious habit making its appearance. Keep the chicks busy, keep them interested, never permit them to become idle. Toe picking is a condition that, as stated above, results from too close confinement, and chiefly from idleness. At any rate it is certainly advisable to keep a very close watch for any signs of toe picking.

To sum up the subject of feed-

ing baby chicks, it may be said that there are many systems employed today. All systems, however, should aim to promote health, vigor, growth and activity in the brood. If you have a good system of feeding baby chicks and it has given you excellent results

in the past, stick to it. The system which produces the best results in each particular case is the method which should be followed, at all times. —PHIL MARQUAM, Estacada, Ore., March 4, 1921.

5000 BABY CHICKS A WEEK WITH 43 INCUBATORS RUNNING

That is What Is Being Accomplished at the Inwood White Leghorn Farm Near Corvallis, by a Young Man Who Has Built From the Ground Up in a Very Short Time.

As evidence that there is money in the poultry business in this valley and to show the rapid growth and development of the poultry business on some of the nearby poultry farms, the writer wishes to quote from a recent letter from the Inwood White Leghorn farm, C. E. Armstrong proprietor, located near Corvallis, Oregon: "We now have 43 incubators in operation. There are 16 400-egg capacity Cyphers, 22 600-egg hatching machines of my own manufacture, three 500-egg Jubilees, one 1500-egg Queen and one 60-egg Buckeye, and of them all, our own home-made machines are giving the best or as good satisfaction, one of them having an 86 1/2 per cent hatching record. "We are turning out 5000 baby chicks per week and orders and inquiries are being received for them daily. "We are building a house to accommodate 1500 pullets and

will trapnest them. Will also have 20 colony houses to accommodate 100 pullets each, and by the end of April we will have 5000 pullets on the place. "My pen of 'Royals' consist of 19 White Leghorn hens with trapnest records of 240 to 268 eggs in a year, and they are mated to cockerels from a 304-egg Hollywood hen. A thousand dollars would not buy this pen. We should get some great records from some of the chicks from this pen and mating."

Mr. Armstrong has been very successful in the poultry business and while yet a young man has built up one of the largest and most modernly equipped plants and poultry farms in the valley and on limited capital. This is only one of the several successful and money making poultry plants established in western Oregon, and there is room and a demand for many more of them.

BEES AND FRUIT; TWO INDUSTRIES THAT MUST DEPEND UPON EACH OTHER

Marion County Should Have a Bee Inspector, For Which The County Court Has Been Petitioned, Under a Law That is On the Statute Books of Oregon.

(The following article was submitted to The Statesman for the Salem slogan edition on Bees, published February 24; but was accidentally omitted.)

Most observant persons have noted the interdependence of many fruit bearing plants and the honey bee. Long ago, Chas. Darwin discovered that many varieties of clover depend entirely on the visits of bees for the fertilization of their flowers. It has long been known in this country that bees are indispensable in the fertilization of orchard fruits. So well is this fact recognized that in California growers of almonds, apricots, prunes, and other fruits gladly pay the owners of bees a liberal rent per colony for the use of bees during the blossoming season. The interdependence of honey bees and fruit plants being such as it is, it is apparent that as the orchard area is increased in any given section, it becomes wise and profitable to increase the bee interests in the same proportion. The commercial orchard interests have developed so rapidly in Marion county during the past few years that such plantings (including small fruits) amount to about thirty thousand acres at the present time. For a number of seasons the bee business has not kept pace with the orchard business in Marion county.

One of these reasons is that many of our orchardists do not yet fully appreciate the value of the bee in the orchard.

Another and more serious reason is that during the past two years there have been many outbreaks of a virulent and often fatal contagious disease in the apiaries of Marion county. This disease, which is highly contagious, is known as American foulbrood. Another quite distinct disease is known as European foulbrood, but is not thought to exist to any serious degree in this section. American foulbrood is decidedly the most serious pest that the apiarist in this section has to deal with, and its ravages in this county during the past two seasons have been very serious. In several sections where this disease has not been understood and intelligently handled it has made a clean sweep of the bee business.

The county court of Marion county has been petitioned to provide for bee inspection during the coming season, and is very important that all apiarists should clearly understand the situation and be ready to lend every aid to the inspector in rendering this work thorough and effective. Every bee keeper in the county, no matter if he has only one colony, should take an interest in this matter and if he suspects the presence of disease should report the case to the inspector. The outward indications of the dis-

ease are manifest in a gradual weakening of the colony, which may have its origin during any period of honey flow. The means of eradicating this disease are mainly sanitary, and, while quite simple, require thoroughness in every detail.

(The Marion county court has under consideration the petition mentioned in the above article. It has been suggested by some interested parties that S. H. Van Trump, fruit inspector, might be given also the appointment and the powers of county bee inspector without additional salary, and the writer understands that Mr. Van Trump would be willing to act in that manner and under those conditions; if he were acceptable to the bee interests; though he does not wish to be forced into any controversy, inherited or to be brought on in the future. The matter is becoming urgent, and the growing importance of the bee industry demands that action be not long delayed.)

Abundant Health is assured when there is good blood in the veins. Hood's Sarsaparilla is the medicine to make good blood. Begin taking it now. It is just what the system needs at this time and will do you great good. Sharpens the appetite, steadies the nerves.

Mrs. Elizabeth Smith Passes Away at Her Home

Mrs. Elizabeth Smith, 67 years old, wife of Martin E. Smith, died at her home east of Salem early yesterday. The funeral service will be held at the Catholic church at Sublimity Monday at 10 o'clock a. m. and interment will be in the Catholic cemetery at that place.

Besides her husband, Mrs. Smith leaves three sons and six daughters. The sons are George A. Smith and Frank C. Smith of Stayton and Martin Smith of Hillsboro. The daughters are Mrs. Ella Boedigher and Mrs. Barbara Gehlen of Stayton, Mrs. Josephine Harr of Mt. Angel, Mrs. Emma Dorrler of Shaw, and Mrs. Jeanette Dorrler and Mrs. Doris Zellinski of Salem. The funeral will be in charge of the Terwilliger Funeral home.

Fritz (to his mother putting up his school lunch) — That cheese you put in my sandwich yesterday was fine. Give me lots of it today.

Mother—I am sorry, son, but it's all gone. Fritz—Oh, what a pity! Teacher said if I came back with any more like that she would not let me in the school building.—Elmira Telegram.

4,000 OFFICERS IS ARMY NEED

Opportunity Now Open To Young Men With Military Experience

WHITE HAS STATEMENT

Successful Competitors To Receive Appointments For Life

Four thousand more officers are needed by the United States army, according to a letter received by George A. White, adjutant general of the state, who was asked by the government authorities to bring the need to the attention of all who might be interested in taking the army examination.

The vacancies are in first and second lieutenantcies and examinations of all eligible young men are to be held April 25, at which time 2585 new lieutenants will be selected, the letter states. Those eligible to qualify are reserve corps officers, all members of the national guard and graduates of certain technical colleges which have the approval of the war department.

While Oregon is assigned no definite quota, a large number of the vacancies will be filled by Oregon men, Mr. White stated, judging by the outcome of the country-wide competitive examination held last summer in which nearly a hundred Oregon men were successful in gaining permanent commissions in the regular army.

Most Branches Represented. Nearly all branches of the service are represented, the largest number of vacancies being in the infantry, field artillery and air service. The successful competitors will receive life appointments. Second lieutenants will receive \$176.62 a month and first lieutenants, \$216.66 a month, in addition to living quarters and travel allowances.

The following outline of essential facts from the government letter of information was prepared by Mr. White for the information of prospective applicants:

Applicants in Oregon should address their applications to the officer in charge United States recruiting station, Portland, or the commanding officer, Vancouver barracks, Wash. Application blanks supplied by same officers.

Regulations governing all details of the examinations are now being distributed to all military posts and stations and applications for such information should be addressed accordingly. Do not write or write the adjutant general of the army for information.

Central Boards Appoint.

April 25 is the date of final examination. Preliminary to that date applicants will be given a preliminary examination which will consist merely of an inquiry into the physical, moral and mental qualifications of the applicant. The examinations will be conducted under the direction of the ninth corps area commander (headquarters at San Francisco) at points to be announced. Selection of the successful candidates, however, will be made by central boards convened in the war department.

The ages prescribed are from 21 to 30 years. Since eligibility for appointment is fixed by law the war department states that requests for exemptions cannot be given consideration.

Order of Merit Rule. Successful candidates will be arranged in their order of merit and will be appointed in the army in that order.

It is intended to announce the successful competitors about two months after the examinations are held, thus giving them an opportunity to complete the present

school year before taking up duties as army officers. "Each applicant is allowed to state two choices of branches of service. The branches where vacancies exist are: Infantry, cavalry, field and coast artillery, engineers, air service, signal corps, quartermaster corps, ordnance department, chemical warfare service and Philippine scouts."

BASEBALL SEASON HERE.

HOUSTON, Texas, March 5.—Philadelphia American leaguers defeated the St. Louis Nationals in an exhibition game here today. Score—

	R.	H.	E.
Batteries: Walker, Kircher, Scherdel and Clemons; Perry, Romell, Harris, Moore and Perkins, Myatt.	1	3	2
St. Louis	2	7	6

AJAX CORD TIRES



Re-Treading and Vulcanizing a Specialty Hoffman & Okerberg Tire Repair Shop Y. M. C. A. Bldg.



THE SIGN OF PERFECT SERVICE

Real Optical Service

Grinding the lenses in size and shape to suit your features; designing mountings that fit securely yet comfortably; making you see better than you ever saw before—that is a service we are proud of.

It is the attention we give to correct detail that makes our optical service appreciated.

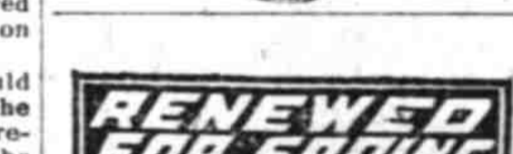
Complete Lens Grinding Factory on the Premises

SAVE YOUR EYES

MORRIS OPTICAL CO.

Eyeglass Specialists 204-211 Salem Bank of Commerce Building SALEM, OREGON

Oregon's Largest, Most Modern, Best Equipped Exclusive Optical Establishment.



RENEWED FOR SPRING

Have a Battery Specialist inspect your battery and determine its condition. NOW—and, if necessary, repair or rebuild it for the coming season.

Competent attention, given IN TIME, will make the battery give its maximum service.

R. D. BARTON

171 S. Com'l. Phone 1107 Salem, Oregon

No Buyers Risk Here

You can order here with confidence

We know how—

We're so sure that we know how that we won't accept one penny of your money unless you're satisfied.

You don't worry about the worth of the suit we make for you,

For we'll not keep your money unless you get your money's worth.

We can and do stand back of our guarantee.

SCOTCH WOOLEN MILLS STORE

426 State Street SALEM - OREGON

BABY CHICKS



"NOW ON HAND" 558 State Street

Opposite County Court House

C. N. NEEDHAM

Salem Baby Chick Specialist

Try it first—then decide! Pay nothing

Deposits nothing—Use for 30 days



Auto Strop Razor

Sharpens itself

Strops, shaves and cleans without removing the blade. 500 clean, comfortable shaves guaranteed from each dozen blades.

Every Auto Strop Razor set includes a fine leather strop and 12 keen-edged blades. Take it home with you or write and we will mail it.

J. F. TYLER, Druggist 157 S. Commercial St. SALEM, OREGON

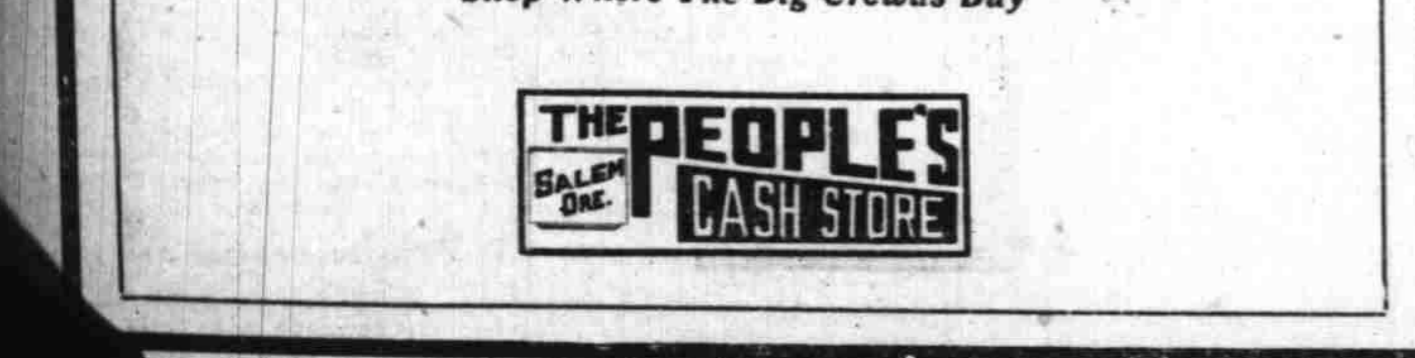
JUST AS WE EXPECTED

OUR BACK FROM MARKET SALE brought overwhelming crowds to our store. It was impossible to serve all. To those who could not be waited upon we ask an apology. We did everything humanly possible to provide for the crowds—but there's a limit to everything.

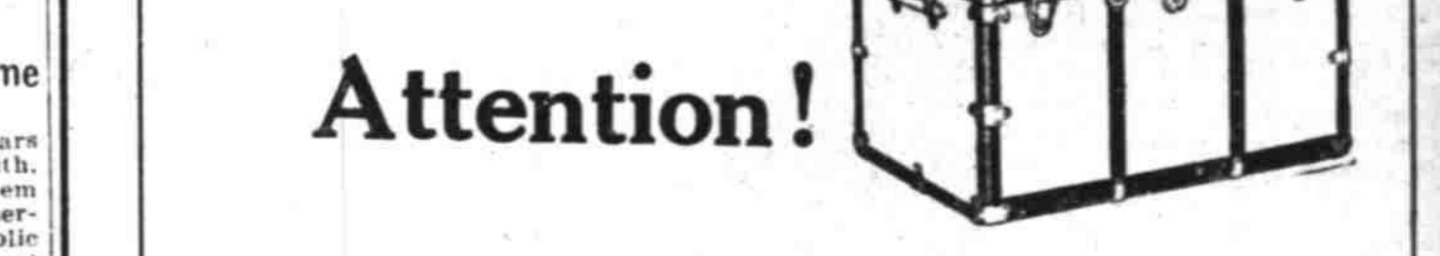
Monday Will Be Another Big Day COME EARLY SUPER SPECIALS FOR MONDAY

3 cans Borden's or Carnation Milk 25c
1 pound Cocoa in Bulk 10c

Shop Where The Big Crowds Buy



Travelers Attention!



We carry one of the largest assortments of trunks, grips, valises and hand bags. Also all sizes and styles that would please the most exacting person. We are confident that upon looking over our stock you will find the very thing that your heart desires. See our large window display then come in and let us show you the one of your choice.

W.W. Moore FURNITURE STORE More for your money at Moore's