### HOME AND FARM MAGAZINE SECTION

# Profitable Business of Poultry Raising in America

Proper breeding, hatching and brooding of chicks are most im-portant, but the best flock ever produced may be ruined by un-intelligent feeding during the first month. What, how and when to feed baby chicks is the theme of the following timely and practical contribution.

W HEN a chick emerges from the shell it is an insignificant litmmm the creature, weak and helpless, of little value. But when we remember that the little chicks are our future laying or market birds, that their future usefulness is largely determined by the care they receive in early life, we realize how important it is that they be properly fed and managed to the end that they may be able to do their best work for us at maturity.

It pays to "fuss" with the chicks. The old adage "as the twig is bent the tree is inclined" applies with great force here. We can give the youngsters a husky start which means profitable maturity, or we can stunt them and thus prevent them from ever being of much account.

The feeds and feeding methods used during the brooding period are most important. It is not necessary for the chick-grower to possess a profound knowledge of chemistry in order to successfully mix his chick ration, but he should use a reasonable amount of common sense, study the problem and adopt those tested methods which best fit into his general plan of poultry plant management.

#### The Old-Time Plan.

Some one may say that it is possible to raise mighty good chicks on absurdly simple rations and point to the mixture of commeal and water which is so commonly used as the grit. staple chick food in the country districts.

But circumstances alter cases. On the general farm where such feeding incthods are most in vogue, the chicks are usually batched rather late in the Spring after insect life has become abundant and there is plenty of fresh, tender green stuff. As a rule the chicks are cared for by heus and are given their liberty, wanhens and are given their liberty, wan-dering at will about the farm build-ings and grounds, finding a great amount of food of many kinds. Un-der such conditions it is possible to raise very good chicks on cornneal "dough." The writer has done this. But when chicks are reared in large numbers, especially where the yarding system is used, they are pre-vented from finding much food and the attendant must supply virtually

the attendant must supply virtually everything they need. If there is any failure here, if the ration is incom-plete or one-sided, proper growth and even development will hardly follow

Growing chicks need plenty of food, since scanty feeding is respon-sible for slow growth. Their ration should include grains in variety, mineral matter, animal food and suc-culent greens. Due regard should be culent greens. Due regard should be given the proper proportions of each relass of ingredients, the idea being to supply materials for building mus-cle, bone and feathers. Further, the ration should be palatable and in such physical form that the young-sters can eat it readily and digest it quickly and thoroughly. Each of these points has a decided bearing upon results. upon results.

and by-products. This mash mixand fed dry or dampened with water or milk.

It is an acknowledged fact that more rapid growth can be secured through the use of the moist mash through the use of the moist mash, but there is greater danger of bring-ing on digestive disturbances than when the dry mash system of feed-ing is used. Broller growers who force their chicks and sell them at an early age, use the moist mash quite generally, but in the case of those who carry their birds to ma-turity the dry mash system is gener-ally preferred. Either will prove en-tirely satisfactory if properly used. tirely satisfactory if properly used. Fortunately, for the convenience

Fortunately, for the convenience of poultry producers, there are a number of very satisfactory proprie-tary chick feeds on the market. These include cracked grain mix-tures, mash mixtures and growing feeds. The former may be had for both baby chicks and those which are martially grown the difference are partially grown, the difference being in the degree of fineness. In many cases these feeds can be

being in the degree of fineness. In many cases these feeds can be purchased at a lower cost than sim-liar home-mixed feeds of the same kind can be made, especially where small quantities are used. When small quantities are used. When buying the poultryman should not be influenced solely by price. Baby chicks eat so little that a few cents' difference on each bag of feed is of triffing moment. Quality should be the first consideration at all times. Avoid those feeds which contain heated or moldy grain, weed seeds and other trash, or are loaded with grit. Use such as are properly

Ration No. 1.

5	L.Onus	×
	Cracked wheat	5
1	Pinhead oats	5
Ű	Pinhead oats 1	ļ
ľ	Cracked peas Broken rice Millet seed	1
1	Broken rice	3
i	Millet seed	3
	Mash mixture (finely ground, thor	÷
1	Mash mixture (finely ground, thor oughly mixed)-	

51								3	Ľ.	Q	u	ng
ì	Cornmeal	( <del>4</del> )	ar.	•	10	.,		a.	×	÷		• 22
4	Wheat bran							ч.			÷	• 2
ç.	Wheat middlings			1	1		2	Q		2	2	
í	Ground oats, sifted Gluten feed	1			1			1	i.	à	1	
	Gluten feed					5		ų,			ŝ	
L	Tine heat or figh con											

## Ration No. 2.

	Scratch grain- Pour Cracked wheat	ids
•	Cracked wheat	23
•	CIACACE COIN	100
j,	Pinhead oats	2
8	Cracked peas	
1	Millet seed	n Ì
Į.	Moderately fine beef or fish scrap Mash mixture	o ()
3	Mash mixture	
	Wheat bran	1
1	Cornmeal	1 1
5	Ground oats sifted	1 2
r	Gluten feed	а 8
1	Wheat middlings	. 3
21	Fine hanf or fich suran	

cut into short lengths and fed before becoming wilted or heated. Cracked and Ground Grains. Some few poultrymen feed the grain portion of the ration in the whole and cracked forms exclusively, but the accepted practice is to sup-ply a part of it in a mixture of meals and by-products. This mash mix-

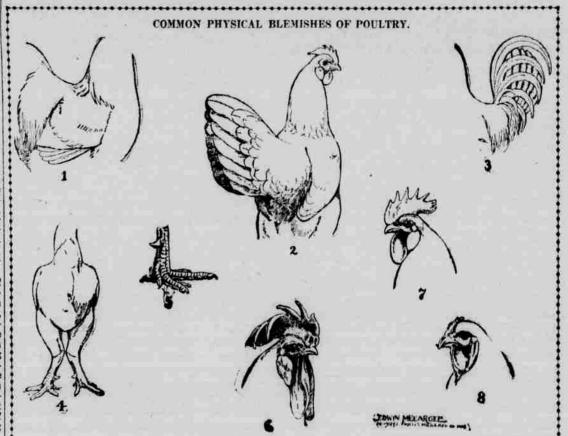
The first meal may consist of a small amount of the cracked grain mixture, oatmeal or rolled oats, or bread crumbs mixed with a small amount of hard-boiled eggs. With this give a little fine chick grit or costor shell oyster shell.

Some poultrymen feed grit alone at first, but this is somewhat dan-gerous in the case of chicks which are permitted to become hungry be-fore feeding. Under such conditions they frequently fill their crops and intestines with the shining particles and considerable mortality will follow

One should see to it that every chick in the flock has ample opportunity to partake of the first meal or two. It often happens that the stronger individuals will hustle out and eat and then if the food is re-moved the more backward ones have no opportunity to secure food until the next meal is served.

#### Feed Chicks Regularly.

After a day or two the feeding may occur at regular intervals, in quantity sufficient to give each chick a reasonable amount, always avoid-ing the danger of overfeeding. Four Obviously it is important that the or five meals daily is the rule for



Among the grains, the most valu-Among the grane, the and cats, to-able are corn, wheat and cats, to-gether with their by-products, as bran, middlings, gluten, etc. Millet, peas, rice, kafir corn and other peas, rice, grains are also useful to a certain etxent.

Bone in some form, green cut, granulated or finely ground, fur-nishes the material for building the skeleton. Finely crushed oyster shell is also commonly used, and grit is a

necessity. Beef scrap, fish scrap, meat meal, blood meal, granulated milk and skim milk are all useful animal In some sections where hearts and livers of meat animals are available at low prices, these are exten-sively used, being thoroughly boiled and chopped before feeding.

The greens are fed primarily for their tonic effect upon the digestive system, as they contain but compa, a-Fresh green grass or clover, lettively

tuce, rape, spronted wheat or dats

In the most carefully bred flocks of fowls occasional specimens will be found which are physically imperfect. Some of the more common blemishes are shown above. Certain of these do not necessarily in-jure the fowl for strictly utility use—as the "squirrel-tail"—but all are objectionable in exhibition speci-mens of most breeds and would cause the faulty specimen to be disqualified in the showroom. Careful poultrymen, particularly fanciers, refrain from using in their breeding pens all birds which show such de-fects, since in most cases these are inheritable. The defects which debar from showroom competition are shown as follows:

positive in most cases these are inheritable. The defects which debar from showroom competition are shown as follows:

Slipped wing—Wing not folded closely or held in correct position. Indicate, weakness or injury.
Wry tall—All fouls may throw their tail to one side occasionally, but when it remains in this position at all times it is due to malformation of the body.
Squirrel tall—Tail held so high that it inclines toward head, projecting beyond a perpendicular line, extending from junction of tail and back. A show disqualification in many breeds, as the Leghorn, etc. Commonly found in utility flocks.
Knock-knees—A serious deformity to be avoided in both fancy and utility fowls. More commonly observed in males, especially of the long-legged and heavy breeds.
Duck foot—The hind toe, which should extend back of the foot, carried forward.
Looped comb—Single comt lopping over instead of standing upright. A show disqualification in single-comb varieties, as out of condition, the comb returning to its normal position when health and strength are restored.
Side sprig—Small growth on side of comb. Show disqualification in all single-comb varieties.
Cross bill—A most serious blemish.
The estretable for surface and best which dealthers on the legs and toes of clock breasts. These may be detected by handling the birds.

qualified

There are also color disqualifications, varying with the breed and variety. ' fowls must know all these or his chance of winning prizes will be very small. The exhibitor of fancy