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THE TOLCHESTER COMPANY
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POULTRY NOTES

STATE POULTRY SPECIALIST SENDS OUT INTERESTING ARTICLE ON SUBJECT OF COD LIVER OIL AS PERTAINING TO POULTRY

BY POLK T. BRAMBLE
(Proprietor Bramble Poultry Farm)

The Maryland State University Poultry Department has sent out the following article regarding the subject of Cod Liver Oil, which should be of interest to all our readers. It is as follows:

There has been much talking and waiting about cod-liver oil and its value in poultry feeding. Through wide-spread publicity and advertising, many poultry raisers have commenced to use cod-liver oil with little knowledge of its properties or value. The increased demand also resulted in inferior grade oils being offered on the market, which in some instances, had little value. Thus, even now, the matter of using cod-liver oil is in many cases almost "overdone," or in other words is carried further than returns justify.

What is there in cod-liver oil that makes it valuable as a poultry feed Fresh cod-liver oil of good quality contains certain vitamines (nutriton factors or elements which help to produce healthy bodies) which are necessary in a ration to secure the best results.

Thev vitamines of importance in cod-liver oil are known as Vitamin A and Vitamin D. Vitamin A is present in many other things which should enter into a good ration. Yellow corn, green feeds and milk all contain Vitamin A. A deficiency or lack of Vitamin A causes in poultry an eye disease, somewhat resembling the eye form of roup. It may also cause ulcerated mouths of the birds, and may cause hens to lay eggs of low hatching qualities, resulting in poor hatches, and weak chicks.

A ration containing all yellow corn, and a liberal daily allowance of green food, will take care of the Vitamin A requirements of chickens of all ages under ordinary conditions. Therefore the use of cod-liver oil to supply Vitamin A is uneconomical in Maryland, since green food and yellow corn will satisfactorily supply this vitamin.

Vitamin D is quite different from Vitamin A in the function it performs. Vitamin D deficiency causes a softening of the bones because of insufficient or improper utilization of minerals. Leg weakness is one of the first symptoms of Vitamin D deficiency, followed by unsatisfactory growth, physical deformities, and finally death. Since Vitamin D is closely associated with minerals in the diet, special steps should be taken to supply minerals in sufficient quantity. Bone meal, milk, oyster shell, limestone, and green food all supply necessary minerals. Therefore, every flock of birds should have ground bone, oyster shell, and crushed limestone in small hoppers at all times. However this is not all that is required. These materials only furnish the minerals but do not aid the fowl in assimilating them. This assimilation role under natural conditions is supplied by nature in the form of sunshine.

Therefore, where the proper minerals are supplied and natural sunshine is available, Vitamin D requirements are taken care of satisfactorily.

However, hens confined to houses which let in little sunshine, or chicks in a brooder with little sunshine, may suffer Vitamin D dificiency and trouble may develop. Where conditions are such that hens or chicks must be kept confined to the house, as in winter, sunshine must be available or a satisfactory substitute must be supplied. This is why laying and brooder houses should have sufficient open or window space to admit a good supply of direct sunlight not passing through glass. Ordinary glass does not allow the ultra-violet rays of the sunshine to pass through it, and the action of Vitamin D is associated with the ultra-violet rays. Glass substitutes which allow the ultra-violet rays to pass through them may be used.

Sunshine is the cheapest source of Vitamin D. Let the birds get into the direct sunshine as much as weather conditions will permit.

When breeding hens or laying pullets must be confined to the house because of weather conditions a satisfactory substitute for sunshine may be necessary.

The best known substitute for sunshine is cod-liver oil of good quality.

The monetary value of any cod-liver oil is measured only in terms of its vitamin content. For this reason poultrymen should insist on knowing the vitamin content of any cod-liver oil before purchasing it.

There is a great difference in the vitamin content of various cod-liver oils on the market, and this fact should be appreciated by poultrymen.

Wise buyers will purchase only oils of guaranteed vitamin content or the U. S. P. grades. These grades are somewhat higher in price than some oils on the market, but the guarantee of vitamin content is worth a difference.

Cod-liver oil may not retain its properties when mixed with feed a long time in advance of its use. Exposure to air for a considerable length of time has been shown to impair its value. For this reason it is not advisable to use cod-liver oil which has been mixed with feed for a long time and expect the best results from it.

CHICKS. For winter broilers which must be confined a great part of the time to the house, because of weather conditions, it is advisable to use cod-liver oil. Two per cent. of cod-liver oil in the ration is sufficient, as borne out by experiments. The oil may be mixed with either grain or mash at the rate of 2 pints per 100 pounds of feed.

Chicks hatched in March or later do not need cod-liver oil, if plenty of sunshine is provided. The same principles apply to turkeys and other poultry. Get the chicks out on the ground as early as possible.

LAYERS. Laying stock which must be confined to houses should be fed 2% cod-liver oil in the ration. Let them outside in the sunshine if possible, and 1% cod-liver oil will be sufficient. If they have an outside run regularly each sunny day, no cod-liver oil is necessary. Sunshine is the cheapest source of Vitamin D.

BREEDERS. Breeders should have access to an out-door run every day the weather will permit. Where breeders must be confined for a long period because of weather conditions 2% cod-liver oil should be fed to improve hatchability of eggs and livability of chicks, resulting from improved nutrition of the parent stock.

There is a definite place for the use of cod-liver oil in Maryland with profit. This place is from October to March for both young and old poultry which are confined regularly to houses. When sunshine is available turn the birds outside if possible.

BETTERTON

Mrs. M. A. Tull spent Christmas week with her daughter, Mrs. Elzey in Baltimore.

Mr. Owen Meershan, of Philadelphia, is the guest of Howard Beachamp Owens this week.

Mrs. Thomas Wilmer and daughter, Miss Anna are spending the week in Philadelphia.

Miss Ethel Clark is visiting friends in Philadelphia for the holidays.

Mr. Leslie Crouch had a narrow escape from a serious accident when he was accidentally shot while gunning Christmas eve.

Mrs. Mary Sutton passed away at her home on Christmas Day after a long illness. Her bereaved family have the sympathy of the entire community.

Among those spending the Christmas holidays at their homes n Betterton were: Mr. and Mrs. Wm. Davis, of Phoenixville; Mr. and Mrs. Charles Gooding and children, of Wilmington; Mr. and Mrs. Stanley Biggard and children, of Philadelphia; Mr. and Mrs. Leslie Crew and son, of Philadelphia; Mr. and Mrs. G| Herbert Moore and children, of Baltimore; Misses. Grace Tull and Katherine Wheeler, of Baltimore; Margaret Crew, of Philadelphia; Messrs. Oscar and Arthur Wilmer, of Philadelphia; Walter Stone, of Philadelphia; Talbott Brice, of Baltimore; Charles Willis, Westminister; Horace Wheeler, of Baltimore; Richard Moore, of Philadelphia; and Mr. and Mrs. Howard Brice, of Philadelphia; Mr. and Mrs. George Turner, of Philadelphia; and Mr. Reese Crew of Philadelphia.

Community singing of Christmas carols was held around the lighted community Christmas tree last Friday evening. The tree has been lighted every night during the week.

The Junior League sang Christmas carols at the homes of the sick and shut-ins at six thirty Christmas eve.

The Christmas service was held at the Episcopal church at nine o'clock Christmas morning and the Christmas pageant was given at the Methodist church Sunday evening.

A very enjoyable entertained was given by the pupils of the school on Wednesday afternoon before Christmas at the end of which Santa appeared with a beautiful pack of good things for the children and a nice present for "Mr. Pete."

The December meeting of the Women's Foreign Missionary Society was held at the home of Mrs. Frank Young on Thursday afternoon.

Every one in the community is grieved to learn that Mrs. L.M. Owens is not improving in health as had been hoped for.

Mr. and Mrs. Harry Crew and John Henry spent the Christmas holidays with their son, Mr. Emmitt Crew and Mrs. Crew in Philadelphia.

STILL POND

Mrs. S. B. Parrott is spending some time with her sister, Mrs. J. N. Bennett in Chestertown, Md.

Miss Henrietta Matthews who is spending the holidays at her home here, spent several days this week with her brother and family in Baltimore, Md.

Mrs. W. Tomb, of Wyoming, Pa, spent this week with her father, Mr. C. W. Hague.

Mrs. W. Smith and Mr. and Mrs. Harry Hart, of Philadelphia, Pa., spent Christmas with Mr. and Mrs. Carl Norris and family.

Mr. and Mrs. Wm. Penn Toulson and daughter, of Vineland, and Mr. and Mrs. Julian Toulson, of Philadelphia, Pa., spent the holidays with their mother, Mrs. Susie Toulson.

A good number of teachers and scholars attended Sunday school last Sunday morning a number of gifts were exchanged and the teachers of the beginners and primary departments were given a big surprise as during the week the floors of room had been varnished and a new rug put on the foor, a much needed improvement which added to the appearance and comfort of the room.

The Devotional Service of the Epworth League will be led to-morrow evening by Mr. A. J. Hackett.

Subscription to the Transcript $1.50 per annum.

STEPHEN R. COLLINS
Attorney-At-Law
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JOHN W. BARROLL
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FOR SALE

Three year old Guernsey Bull, out of fine milk stock. Mother gave 6 to 8 gallons milk, father head of milking herd of Jonn K. Kulve, Mt. Washington, Maryland.

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A MERRY XMAS TO ALL

JOHN BARTLEY

Chestertown, Maryland

THE IDEAL REFRESHMENT

Ice Cream is the ideal refreshment for afternoon and evening parties. It is enjoyed by everyone present and it gives no trouble to the hostess. We deliver it packed so that it will remain firm and it can be served at any time. For particular occasions we make it in special molds. Let us have your order early.

GILL BROS.

Phone 290. Chestertown, Md.

Stewart-Warner Radio Wins Two Grand Prizes in Italian Contests

In Italy, land of Marconi, inventor of radio's predecessor, the wireless telegraph, an American built receiver, has twice carried off the honors in competition with every leading European and American brand. The Grand Prize at both the Gonzaga and Padova Fairs was awarded to a well-known radio, built in the United States, in a contest judged on the basis of performance and beauty.

An indication of the extreme values in radio, available to American buyers, is the fact that this receiver, manufactured by the Stewart-Warner Speedometer Corporation, of Chicago, sells in the United States for a nominal price, while many of the competitive European makes entered in the contests sell for extremely high prices.

Unquestionably the American radio fan is fortunate. In America, the land of free speech and free radio programs, a tax on radio sets is unknown. But in many countries across the Atlantic, radio listeners must pay an annual fee to their governments for the support of broadcasting.

In addition, the United States has not only outdistanced European nations with an overwhelming number of excellent broadcasting stations—but in the production of finer receiving equipment, selling at prices that, to our Continental cousins, would seem ridiculously low.

Local Dealer

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The Rexall Store

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