



How to Raise Poultry
By Dr. L. D. LeGear, V. S.
St. Louis, Mo.
Dr. LeGear is graduate of the Olin Veterinary College, 1922. Thirty-six years of veterinary practice on diseases of live stock and poultry. Highest authority on poultry and stock raising. Nationally known poultry breeder. Needs and lecturer.

ARTICLE VI AS YOU FEED SO SHALL THEY LAY

Records Show Egg Production Often Doubled or Tripled by the Addition of One Simple Element to the Feed—Extra Profits from Correct Feeding More Than Offset the Slight Additional Cost.

From somewhere way back in my third reader days, I recall the story of a miser who tried to feed his horse shavings. It would save the price of hay, he reasoned, and if the change was made gradually the beast would never know the difference. Maybe the horse was fooled, but nature most certainly was not. Long before the diet got to be all shavings the poor old horse gave up the ghost.

As I observe the way a great many people feed their chickens, I am often reminded of that story. I don't mean they are stingy, but their lack of knowledge about feeding is just as great. They are expecting the impossible and wonder greatly why they are so consistently disappointed.

The first thing that must be thoroughly understood is that from the hen's point of view egg laying is a secondary matter. She eats first of all to build up and maintain her own body. If, after enough has been eaten for that purpose, she can be persuaded to eat still more of the right kind of food correctly proportioned, she will lay eggs. That's all there is to theory of scientific poultry feeding.

The next essential fact to be mastered is that different kinds of feeds produce widely different results. Grains furnish, for the most part, substances called carbohydrates which are transformed into fat for the fowl's body and albumen or egg whites. Other substances, known as proteins, build up the muscles of the bird and furnish yolks for eggs. Proteins are usually fed in the form of meat scraps, milk, or tankage. There are some proteins in grains but not enough for the hen's body and eggs too.

For the egg shells and bones of the fowl, minerals are required, calcium carbonate being the principal one. For that purpose, crushed oyster shell or limestone is kept before the fowls at all times.

A certain amount of green feed is also required. It helps prevent digestive disorders and contains the two valuable vitamins, A and D, so essential to the proper assimilation of other food. Without vitamin D, for example, the minerals in the feed can not be made over into bone and egg shell.

Once it is clearly understood that each different kind of feed has its own individual job to do, the very term, "balanced ration," ceases to sound quite so much like a foreign language. It becomes plain that the ration must consist of just so much material containing carbohydrates and a proportionate amount containing proteins.

An example of what I consider a well balanced ration is the one given below, which I have used successfully for a number of years. For the sake of those not familiar with this method of feeding, I shall explain that mash is customarily put in hoppers and kept constantly before the hens at all times. The grains are preferably fed by hand with the feedings far enough apart so the hens will eat plenty of mash in between times. The grains are called scratch feeds, by the way, because they are usually buried in deep litter. That makes the hens have to scratch it out, thus getting much needed exercise.

A Balanced Poultry Ration

Scratch Feed

100 lbs. yellow corn.

100 lbs. wheat or heavy oats.

Mash Feed

100 lbs. wheat bran.

100 lbs. middlings.

100 lbs. yellow corn meal.

50 lbs. ground oats.

100 lbs. meat scraps.

5 lbs. common salt.

Plenty of seasonable green stuff should accompany this ration. Grit, charcoal and oyster shell should be kept before the hens at all times. And water! Yes, of course. Eggs are 65 per cent water and a plentiful supply of fresh, clean water should always be on hand to supply that requirement. It is also essential for the health of the flock.

The feeding of a balanced ration will work wonders. There are plenty of examples of flocks that were fed all grain rations with only fair results, but which doubled or even tripled their output as soon as a good mash with the necessary protein element was added. It is not enough, however, just to feed a 50-50 mash and scratch feed ration all the time.

The successful poultry man will study his flock. He will know whether they are being forced, and producing beyond their normal capacity, or whether they are getting too fat and lazy so they are not laying as much as they should. If the former, he will cut down on the grain and increase the mash to make birds consume more protein.

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by Dr. L. D. LeGear, V. S.)

NOTICE TO BIDDERS

Notice is hereby given that the Common Council of the City of Coquille, Coos County, Oregon, will receive sealed bids for laying and constructing sewers on Coulter Street from 10th Street to 7th Street; on 11th Street from Holly Avenue to Heath Street; on Heath Street from 11th Street to 8th Street; on 8th Street from Heath Street to Coulter Street and on 7th Street from the center of Block 4, Nosler's Addition to center line of Henry Street, in the City of Coquille, Coos County, Oregon.

All bids must be in accordance with the maps, data, plans, estimates and specifications of the City Engineer, filed in the office of the City Recorder on the 6th day of May, 1929, and pursuant to the provisions of Ordinance No. 327, adopted by the Common Council on the 3rd day of June, 1929, and the statutes of the State of Oregon, therein referred to, all of which are hereby referred to and made a part of this notice. Said sewer construction is to be at the cost and expense of the property to be benefited thereby. Bids may be submitted for either the whole work necessary to complete the proposed sewers or for such sub-division thereof as will not conflict materially with the completion of the remaining portions. Forms of bids for contract and bond may be had upon application to the City Recorder. The Common Council reserves the right to reject any and all bids, with or without cause. A certified check in the sum of 5 per cent of the amount bid must be submitted with such bid, to be forfeited to the City of Coquille, in the event the bidder refuses to sign the contract and execute a bond as provided for in said ordinance. Said bond to be in the sum of 50 per cent of the total amount of the contract. The work must be completed within 60 days from the awarding of the contract, or within such further time as the Council may allow. Bids must be filed on or before the hour of 5 o'clock P. M. on the 17th day of June, 1929. All bids must be made for a lump sum, accompanied by unit prices, for the purpose of estimating additions or deductions made during the course of the work.

2112

F. G. Leslie,
City Recorder.

NOTICE TO BIDDERS

Notice is hereby given that the Common Council of the City of Coquille, Coos County, Oregon, will receive sealed bids for the improvement of Coulter Street from 10th to 7th Street; Heath Street from 11th to 8th Street; 11th from Holly Avenue to Heath Street; 10th Street from end of present pavement on Henry Street to Heath Street; 8th Street from Coulter Street to Heath Street; 7th Street from a point 49 feet West of Northwest corner of Block 33, Elliott's Addition to a point opposite Southwest corner of Block 4, Nosler's Addition, City of Coquille, Coos County, Oregon.

All bids must be in accordance with the maps, data, plans, estimates and specifications of the City Engineer, filed in the office of the City Recorder on the 15th day of April, 1929, and pursuant to the provisions of Ordinance No. 326, adopted by the Common Council on the 3rd day of June, 1929, and the statutes of the State of Oregon, therein referred to, all of which are hereby referred to and made a part of this notice. Said improvement is to be made at the cost and expense of the property benefited thereby. Bids may be submitted for either the whole work necessary to complete the proposed improvement or for such sub-division thereof as will not conflict materially with the completion of the remaining portions. Forms of bids for contract and bond may be had upon application to the City Recorder. The Common Council reserves the right to reject any and all bids, with or without cause. A certified check in the sum of 5 per cent of the amount bid must be submitted with such bid, to be forfeited to the City of Coquille, in the event the bidder refuses to sign the contract and execute a bond as provided for in said Ordinance, said bond to be in the sum of 50 per cent of the total amount of the contract. The work must be completed within 90 days from the date of awarding the contract, or within such further time as the Council may allow. Bids must be filed on or before the hour of 5 o'clock P. M. on the 17th day of June, 1929; all bids must be for a lump sum, accompanied by unit prices for the purpose of estimating additions or deductions made during the course of the work.

2112

F. G. Leslie,
City Recorder.

FORECLOSURE SALE

NOTICE IS HEREBY GIVEN: That under and by virtue of an Execution and Order of Sale issued out of the Circuit Court of the State of Oregon for the County of Coos on the 3rd day of June, 1929, in a certain cause in said Court pending wherein Jessie May Geaney is Plaintiff, and James Gaffney, Lora L. Carver and John A. Carver, her husband, R. C. Lively, F. H. Edmonds, Robert Buzzard and Juanita Sloum Buzzard, his wife, are Defendants, Case No. 8011, of said Court and commanding me to sell the hereinafter described real property to satisfy the sum of \$1086.89, with interest at 8 per cent from May 29, 1929, an Attorney fee of \$200.00 and costs and disbursements \$26.85, together with accruing costs, I WILL ON SATURDAY, THE 8th DAY OF JULY, 1929, at the hour of 10 o'clock in the forenoon of said day at the front door of the County Court House in the City of Coquille, Coos County, Oregon, offer for sale and sell at public auction, to the highest and best bidder for cash in hand, all the right, title and interest of the said

Defendants in and to the following described real property, to-wit:

Lots 18 and 19 in Block 44 in the town of North Bend, Coos County, Oregon, according to the plat thereof on file and of record in the office of the County Clerk of Coos County, Oregon.

Said sale being made subject to redemption in the manner provided by law.

Dated at Coquille, Oregon, this 4th day of June, 1929.

W. W. Gage,
2116 Sheriff of Coos County, Oregon

Notice of Sale of Government Timber

General Land Office, May 11, 1929, Washington, D. C. Notice is hereby given that subject to the conditions and limitations of the acts of June 9, 1916 (39 Stat. 218), February 26, 1919 (40 Stat. 1179), June 4, 1920 (41 Stat. 758), and departmental regulations of April 14, 1924 (50 L. D. 376), the timber on the following lands will be sold July 22, 1929, at 10 o'clock A. M., at public auction at the United States land office at Roseburg, Oregon, to the highest bidder at not less than the appraised value as shown by this notice, sale to be subject to the approval of the Secretary of the Interior. The purchase price, with an additional sum of one-fifth of one percent thereof, being commissions allowed, must be deposited at time of sale, money to be returned if sale is not approved, otherwise patent will issue for the timber, which must be removed within ten months. Bids will be received from citizens of the United States, associations of such citizens and corporations organized under the laws of the United States or any State, territory or district thereof only. Upon application of a qualified purchaser the timber on any legal subdivision will be offered separately before being included in any offer of a larger unit. T. 16 S., R. 1 W., Sec. 17, SW 1/4 SE 1/4 red fir 525 M., T. 19 S., R. 2 W., Sec. 29, NE 1/4 SE 1/4 red fir 1170 M., SE 1/4 SE 1/4 red fir 1010 M., hemlock 50 M., cedar 40 M., T. 23 S., R. 3 W., Sec. 9, Lot 3 red fir 1240 M., T. 18 S., R. 5 W., Sec. 15, NW 1/4 NW 1/4 red fir 440 M., T. 19 S., R. 5 W., Sec. 21, NE 1/4 NE 1/4 red fir 700 M., T. 18 S., R. 6 W., Sec. 11, NW 1/4 SE 1/4 red fir 475 M., T. 28 S., R. 3 W., Sec. 11, NE 1/4 SE 1/4 yellow fir 3100 M., hemlock 30 M., none of the timber on the sections to be sold for less than \$1.50 per M for the red fir and red cedar, \$1 per M for the hemlock and \$2.50 per M for the yellow fir. T. 20 S., R. 1 W., Sec. 5, Lot 3 red fir 1200 M., NE 1/4 SW 1/4 red fir 1500 M., T. 20 S., R. 4 W., Sec. 9, NW 1/4 NE 1/4 red fir 385 M., SE 1/4 NW 1/4 red fir 900 M., T. 18 S., R. 6 W., Sec. 17, NE 1/4 NW 1/4 red fir 400 M., red cedar 15 M., T. 1 S., R. 5 E., Sec. 11, NE 1/4 SE 1/4 yellow fir 2650 M., hemlock 550 M., red cedar 30 M., SE 1/4 SE 1/4 yellow fir 4765 M., hemlock 95 M., SW 1/4 SE 1/4 yellow fir 2750 M., hemlock 200 M., none of the timber on these sections to be sold for less than \$1.75 per M for the red fir, \$1.50 per M for the red cedar and hemlock and \$2.50 per M for the yellow fir. T. 22 S., R. 2 W., Sec. 27, NE 1/4 NE 1/4 yellow fir 430 M., red fir 1400 M., red cedar 60 M., hemlock 150 M., red cedar poles 5 M., NW 1/4 NE 1/4 yellow fir 550 M., red fir 1720 M., red cedar 20 M., T. 26 S., R. 12 W., Sec. 33, NW 1/4 SW 1/4 red fir 2580 M., SW 1/4 SW 1/4 red fir 3030 M., T. 9 S., R. 2 E., Sec. 25, NE 1/4 NE 1/4 red fir 1480 M., SE 1/4 NE 1/4 red fir 1240 M., none of the timber on these sections to be sold for less than \$2 per M for the red and yellow fir and \$1 per M for the red cedar and hemlock. T. 3 N., R. 3 W., Sec. 25, NE 1/4 NW 1/4 yellow fir 1200 M., red cedar 30 M., none of the timber on this section to be sold for less than \$1.50 per M for the yellow fir and \$1 per M for the red cedar. T. 27 S., R. 12 W., Sec. 23, NE 1/4 NW 1/4 red fir 750 M., NW 1/4 NW 1/4 red fir 1,000 M., SE 1/4 NW 1/4 red fir 1300 M., SW 1/4 NW 1/4 red fir 1400 M., NE 1/4 SW 1/4 red fir 1,000 M., NW 1/4 SW 1/4 red fir 1200 M., SE 1/4 SW 1/4 red fir 1400 M., SW 1/4 SW 1/4 red fir 2,000 M., Sec. 27, NE 1/4 NE 1/4 red fir 2600 M., white fir 100 M., NW 1/4 SE 1/4 red fir 1,000 M., white fir 100 M., yellow fir 1200 M., SE 1/4 NE 1/4 red fir 1800 M., white fir 150 M., SW 1/4 NE 1/4 red fir 1200 M., white fir 250 M., yellow fir 2,000 M., SE 1/4 NW 1/4 white fir 200 M., yellow fir 2100 M., hemlock 100 M., NE 1/4 SE 1/4 red fir 1900 M., white fir 150 M., NW 1/4 SE 1/4 red fir 1200 M., white fir 250 M., yellow fir 800 M., hemlock 100 M., SE 1/4 yellow fir 2200 M., hemlock 100 M., SW 1/4 SE 1/4 white fir 100 M., yellow fir 2400 M., NE 1/4 SW 1/4 white fir 450 M., yellow fir 1475 M., hemlock 75 M., SE 1/4 SW 1/4 white fir 600 M., yellow fir 1100 M., none of the timber on these sections to be sold for less than \$2 per M for the red and yellow fir, 50 cents per M for the hemlock and \$1 per M for the white fir. T. 4 S., R. 6 E., Sec. 31, Lot 3 yellow fir 1450 M., red cedar 10 M., white pine 15 M., hemlock 75 M., lot 6 yellow fir 675 M., red cedar 15 M., white pine 20 M., hemlock 40 M., Lot 7 yellow fir 1260 M., red cedar 10 M., NE 1/4 SE 1/4 yellow fir 1540 M., red cedar 10 M., white pine 25 M., NW 1/4 SE 1/4 yellow fir 1150 M., white pine 25 M., hemlock 50 M., NE 1/4 SW 1/4 yellow fir 1570 M., red cedar 25 M., white pine 10 M., hemlock 40 M., none of the timber on this section to be sold for less than \$1.50 per M for the red cedar, yellow fir and white pine and 50 cents per M for the hemlock. T. 27 S., R. 11 W., Sec. 21, SE 1/4 NW 1/4 yellow fir 500 M., NW 1/4 SW 1/4 yellow fir 2,000 M., red fir 1,000 M., hemlock 75 M., red cedar 25 M., SW 1/4 SW 1/4 yellow fir 2450 M., red cedar 75 M., white fir 100 M., none of the timber on this section to be sold for less than \$2 per M for the red and yellow fir, \$1.50 per M for the red cedar and 50 cents per M for the hemlock and white fir. Thos. C. Havell, Acting Commissioner. 2015

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Havell, Acting Commissioner. 2015

Notice of Sale of Government Timber

General Land Office, May 11, 1929, Washington, D. C. Notice is hereby given that subject to the conditions and limitations of the acts of June 9, 1916 (39 Stat. 218), February 26, 1919 (40 Stat. 1179), June 4, 1920 (41 Stat. 758), and departmental regulations of April 14, 1924 (50 L. D. 376), the timber on the following lands will be sold July 22, 1929, at 10 o'clock A. M., at public auction at the United States land office at Roseburg, Oregon, to the highest bidder at not less than the appraised value as shown by this notice, sale to be subject to the approval of the Secretary of the Interior. The purchase price, with an additional sum of one-fifth of one percent thereof, being commissions allowed, must be deposited at time of sale, money to be returned if sale is not approved, otherwise patent will issue for the timber, which must be removed within ten months. Bids will be received from citizens of the United States, associations of such citizens and corporations organized under the laws of the United States or any State, territory or district thereof only. Upon application of a qualified purchaser the timber on any legal subdivision will be offered separately before being included in any offer of a larger unit. T. 16 S., R. 1 W., Sec. 17, SW 1/4 SE 1/4 red fir 525 M., T. 19 S., R. 2 W., Sec. 29, NE 1/4 SE 1/4 red fir 1170 M., SE 1/4 SE 1/4 red fir 1010 M., hemlock 50 M., cedar 40 M., T. 23 S., R. 3 W., Sec. 9, Lot 3 red fir 1240 M., T. 18 S., R. 5 W., Sec. 15, NW 1/4 NW 1/4 red fir 440 M., T. 19 S., R. 5 W., Sec. 21, NE 1/4 NE 1/4 red fir 700 M., T. 18 S., R. 6 W., Sec. 11, NW 1/4 SE 1/4 red fir 475 M., T. 28 S., R. 3 W., Sec. 11, NE 1/4 SE 1/4 yellow fir 3100 M., hemlock 30 M., none of the timber on the sections to be sold for less than \$1.50 per M for the red fir and red cedar, \$1 per M for the hemlock and \$2.50 per M for the yellow fir. T. 20 S., R. 1 W., Sec. 5, Lot 3 red fir 1200 M., NE 1/4 SW 1/4 red fir 1500 M., T. 20 S., R. 4 W., Sec. 9, NW 1/4 NE 1/4 red fir 385 M., SE 1/4 NW 1/4 red fir 900 M., T. 18 S., R. 6 W., Sec. 17, NE 1/4 NW 1/4 red fir 400 M., red cedar 15 M., T. 1 S., R. 5 E., Sec. 11, NE 1/4 SE 1/4 yellow fir 2650 M., hemlock 550 M., red cedar 30 M., SE 1/4 SE 1/4 yellow fir 4765 M., hemlock 95 M., SW 1/4 SE 1/4 yellow fir 275