

Hens May Lack Ability To Lay Hatchable Eggs

When eggs do not hatch, the fault may be the hen and not the feed. If she possesses a certain gene in her genetic make-up, she may produce eggs too low in riboflavin for the embryos to survive.

Scientists of Penn State reported this discovery during the recent Poultry Science Association meeting at Iowa State University.

Researchers A. J. G. Maw, E. G. Buss, and R. V. Boucher of Pennsylvania's Agricultural Experiment Station have found that eggs in a particular strain of chickens have only 10 per cent as much riboflavin as found in normal eggs.

Eggs from normal hens contain 200 to 400 micrograms of riboflavin—the essential nutrient for embryo survival.

Exhaustive feeding tests have shown that abnormal hens with the recessive gene cannot transfer the necessary riboflavin to their eggs. Carriers of the recessive gene cannot be spotted by looking at a flock, but lack of yellowish-green color in the white of an egg is positive identification.

This particular strain of chickens is otherwise normal

in use of riboflavin into otherwise unhatchable eggs have produced normal chicks in 96 per cent of all eggs thus treated at Penn State, Dr. Buss reports.

Hatching eggs need only 70 micrograms of riboflavin to survive—showing that the average of 200 to 400 micrograms in a normal egg is far more than needed.

Dr. Boucher is tracing the nutrient loss of the riboflavin through the blood stream of abnormal hens. He has found that the recessive gene alters the hen's metabolism (building up and tearing down of living cells in such a way as to prevent the normal increase of free riboflavin in the blood at the onset of and during egg production). This deficiency of free riboflavin in the blood of the recessive hen, while laying, accounts for the small amount of free riboflavin in the egg.

JAMES F. GEHR, Cambridge Springs, Pa., has been appointed USDA Agricultural Attache for West African nations, with headquarters in Liberia, according to a recent announcement.

Nest Cushion for Hens Effective in PSU Studies

Eighty-five to 90 per cent of the eggs laid during tests of a new fibrous nest cushion with a "roll-a-way" egg principle have been sufficiently clean to be cartoned directly, reported Dr. Glenn O. Bressler at Penn State University.

The Penn State poultry researchers said pilots studies for a 10-month period have shown that laying hens like the fibrous nest cushions equally as well as the litter-type nest.

"Our studies showed practically no difference in percentage of floor eggs, less than five per cent in each case," Bressler stated. "The nest cushion shows promise of eliminating cracked and broken eggs," he added.

At present Penn State's solar poultry house is equipped with 510 nest cushions for 2,840 layers. A bell-type mechanical egg collector has been adapted for the nest cushions.

This arrangement is being compared with hand gathering of eggs from 510 litter-type nests for a similar number of layers in a conventional house.

A conference panel of egg buyers, dealers, and a producer discussed the Pennsyl-

vania Certified Egg Program. Starting three years ago with four members and a volume of 5,600 cases of eggs monthly, the State program now has 30 participants handling 70,000 cases monthly.

Seven other firms have applied to the State Department of Markets to be included in the program.

Canadian Hog Slaughter Up

Inspected slaughter of hogs in Canada rose to over two million head during the quarter ended June 20, approx. 50 per cent above the same period last year, according

to the USDA. The Canadian Government has been forced to buy large amounts of hogs to support prices.

In mid-July the Canadian government held about 1.5 million lbs. of hogs, a fall under price-support program. In addition, hog rowings from June 1 to 30, are forecast at 6.5 million, about two per cent above 1958 for the same period.

TWO FEED ADDITIVES when combined, increase egg production and feed efficiency more than either additive alone in trials at South Dakota Experiment Station.

Both oxytetracycline (antibiotic) and glucose (which is supposed to improve the effects of antibiotics) increased feed efficiency of egg production in Lehigh pullets. However, greater improvement was noted when the additives were combined.



Costs 40-60% Less to Feed Than Milk

PIONEER VIG-R-CALF Milk Replacer



- SAVES MILK... 50 lb. size saves 4 cans milk in 4 weeks.
- EASY TO FEED... Just mix with warm water... STAYS MIXED!
- INCREASES GROWTH... Calves average up to 2 lbs. per day gain in growth!
- CONTROLS SCOURS... Scientific blending of quality ingredients and antibiotics helps you control scours!
- SAVES MONEY... Costs 40-60% less to feed than milk!

Don't overlook the growth, health and money-saving benefits offered by VIG-R-CALF as a milk replacer for your calves. VIG-R-CALF is simple to prepare, easy to feed and grows calves faster for less. See us today for complete details on the PIONEER VIG-R-CALF Milk Replacer Program.

Joseph M. Good & Sons

LEOLA — QUARRYVILLE

MASSEY-FERGUSON FARMORAMA

- See MORE Than 100 Pieces of Farm and Industrial Equipment.
- See and Hear RED FOLEY and Jubilee USA Troupe, In Person.

AUGUST 25th at Timonium, Md.

40 MILE S. OF YORK ON RT. 111 EXPRESSWAY (Watch for FARMORAMA Signs)

FREE ADMISSION

BUS TICKETS AVAILABLE

\$1 per person for the round trip Busses will leave at dealer listed below at 7:30 a. m. and return 4:30 p. m.

Get Tickets and Additional Information At Your MASSEY-FERGUSON Dealer:

R. M. BRUBAKER, Inc. SALUNGA, PA. Phone TW 84

"Prompt Bail Bond Service"

BUHRMAN'S
CONVENIENT PARKING LOTS

Opposite Brunswick Hotel —
Opposite Post Office

Next to Western Auto Store
115 East King Street

Norman A. Buhrman,
228 N. Duke St.

"Prompt Bail Bond Service"

Tappan — Caloric — John Wood
Whitehead — Ruud — Norge
Temco — Magic Chef

ALL THE BIG NAMES IN GAS APPLIANCES ON
DISPLAY AT OUR STORES — THE USUAL BARGAIN PRICES, OF COURSE.

UGITE GAS, Inc.
Successor to Ward Bottle Gas

25 SOUTH STATE STREET, EPHRATA, PA.
Open Friday 'til 9 p. m.

SOFT WATER AUTOMATICALLY with the NEW

DURO

FULLY AUTOMATIC WATER SOFTENER

You get plenty of perfectly softened water from every faucet with a Duro fully automatic water softener. Softens automatically - no regenerating attention required.

Backed by Duro's 43 years of experience manufacturing softeners and filters.

Let us explain how easily you may own a Duro Softener

ONLY \$289.00

P. W. STRICKLAND (Distributor)

31 S. Queen St., York, Pa. Phone 5854

JOHN MEISENBERGER
110 Dickinson Ave. Lancaster, Pa. Phone EX 4-2006

Write or Phone For Name of Nearest DURO dealer



Talk is cheap...

and convenient with a bedroom telephone

One of the nicest inexpensive luxuries of modern living is a bedroom telephone. It's convenient and time saving because it eliminates running downstairs to answer the telephone. A bedroom telephone gives you privacy too!

It's inexpensive too... that extra telephone costs only pennies a month.

And, if you would like to add a touch of beauty to your home, get your bedroom telephone in color. Choose from many new and exciting colors.

COMMONWEALTH TELEPHONE COMPANY