

## SCIENCE EYES "LAY AND LIVE" HELP TO HENS

Poultry raisers are finding their problem is not one so much of getting eggs out of hens as it is in having hens to lay them. An inkling of how serious the problem is can be obtained from a bulletin of the Ohio Agricultural Experiment Station at Wooster issued in 1934. In referring to groups of pullets in flocks belonging to the Experiment Station the authors, D. C. Kennard and V. D. Chamberlain state: "The average yearly mortality of pullet layers in 1921 to 1922 was 13.2%; in 1923-1924, 22.7%; and in 1925-1926, 32.5%." "We suspect the picture presented by this survey and the factors responsible for the increased mortality are, to a large extent, representative of what has been taking place throughout the country at large."



"Obviously no one can long remain in the chicken business and survive mortality losses of from 25% to 50%," states J. H. McDams of the Poultry Department of the Purina Mills. "Maybe the hens are laying too many eggs. The man owning the birds, though, says he gathers too few eggs instead of too many. Maybe there are too many new diseases and uncontrolled parasites. If we are to put a finger on each possible cause for heavy mortality losses and attempt to hold them back that way, much as the boy in the story held the Holland dyke by plugging the hole with his fist, we'll need the arms of an octopus and as many fingers on each arm as a centipede has legs."

"However, no multiplicity of arms and fingers is necessary, for all of the increasing causes for such terrific mortality can be charged up to a lack of vitality. As to what causes such a wide spread lack of vitality is another question, but it is the one that must be run down and whipped."

"Starting about twenty-five years ago the attention of science turned toward getting more eggs out of a hen. In 1911 the Wisconsin Experiment Station received wide acclaim with a hen that in a year's time laid two hundred eggs. In about 1918 the first laying contest was established at Storrs, Connecticut. Ever since that time, there has been a wild scramble for hens that could lay more eggs. Lopsided emphasis has been placed on breeding for numbers of eggs without much consideration for vitality and the ways to preserve the vitality."

"Today, poultry investigation work is swinging around to the more serious thought of poultry vitality," says McDams, "particularly the matter of vitamins. The average laying ration (even the best of them) has not contained enough Vitamin A. The deficiency has been recognized by feed scientists for years, but it has not been possible until now to do anything about it."

"Research has discovered a way to extract carotene (Vitamin A in its primary form) and convert it into pure form—the new, vitalizing feed ingredient. The addition of pure carotene to the Vitamin A activity two and a half times, it puts plenty of Vitamin A into the ration, which raises the bird's resistance to the games of infectious diseases."

### By Stimulating Health.

"The stimulation of health," McDams points out, "goes hand-in-hand with prevention of disease, of course. But it goes further. Hens may be entirely free from disease infection and yet become listless and 'mopey.' Everyone has seen lots of them. They don't lay many eggs while in that condition. Other hens may lay heavily for a few weeks, then suddenly go off feed, losing weight and, naturally, their production stops."

"Either of these conditions may be brought about by nothing more than a natural loss of appetite, which occurs whenever the supply of Vitamin A in the body is exhausted. Birds that are laying heavily use up a large quantity of Vitamin A daily. A lot of it goes into the egg itself, besides what they use in their own bodies. If they aren't getting enough in the ration to meet this daily demand, they draw on the supply which was stored up in the body. When the reserve supply is gone, they lose appetite—don't consume enough feed to keep up the pace, and other symptoms soon follow."

"The abundance of Vitamin A (or Vitamin A activity), which pervades now puts into laying rations, stimulates the bird's appetite to keep pace with high production. It isn't a 'forcing' stimulant, in any sense of the word, but a natural stimulation such as occurs when the bird still has their stored-up reserve to draw upon. In fact, they retain their stored-up reserve throughout the entire year."

## World's Fair



Harry Olmsted, for quarter of a century prominent in Southwestern business and civic affairs, is the new head of the Texas Centennial Exposition. He succeeds to the leadership of the \$25,000,000 world's fair following the recent death of William A. Webb, general manager. Mr. Olmsted was for twenty years a director and for five years president of the State Fair of Texas.

### Hints for Homemakers

By Jane Rogers



FOR a punch that is easily made and is ideal for serving on hot afternoons, try the following recipe. Mix two cups canned, unseasoned Hawaiian pineapple juice, one-half cup grape juice, one-half cup carbonated water. Add one slice of pineapple cut in shreds. When thoroughly mixed pour over crushed ice in glasses. Six servings.

When framing valuable etchings, water colors or prints which will remain in their frames for some time, it is suggested that they be backed with a sheet of pressed wood instead of the customary cardboard. If they are then sealed with gummed tape, changes in the humidity of the room cannot reach the drawing and they remain clean until taken out of the frame. If accidentally dropped, the pressed wood keeps the frame rigid in most cases and prevents the glass from breaking. Many costly works of art have been cut or torn by broken glass when the frame has been dropped on the floor.

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Young? Old?  
Your Hair Tells!



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## Soil, Stubble, And Stalks

By GUY A. CARDWELL  
Agricultural and Industrial Agent  
Atlantic Coast Line Railroad Co.  
During the last few years changing conditions have caused the adoption of new and improved farming methods just as changes have been brought about in the manufacture of shoes, clothes, vehicles, and the many other necessities and conveniences of modern life.

The soil is the farmers' factory. Its condition for the manufacture of crops must be good if the product is to be made in quantity and quality sufficient to pay a reasonable return on the investment of capital and labor involved.

Of the many things that should be looked after at this season by the thousands of tobacco, cotton, and peanut farmers in Virginia and the Carolinas there are three things that should receive prompt attention. In order of importance, these three things are—Winter Cover Crops, Destruction of Tobacco Stubble, Early Destruction of Cotton

Stalks.

**A Blanket of Green**  
While there is nothing new about soil building through the use of cover crops, this most important practice has not been generally observed because of the cheapness of land and labor. However, good land

and labor are no longer cheap and plentiful; therefore, I would strongly urge the planting of Austrian winter peas, barley, oats, and rye, either alone or with hairy vetch. This will prevent land from washing, will conserve present plant food supplies of the soil, and will furnish grazing, feed, and seed for the farm. If a part of the acreage in cover crops is plowed under early in the spring decided soil improvement will result.

**Soil improvement**, by the planting of cover crops, to be turned under, has come down to us from the earliest times; but the practice has not been generally observed, hence the soil impoverishment on many farms.

**Destroy Tobacco Stubble**  
Now is the time to commence to work for a satisfactory per acre production of tobacco next year. The plowing under of tobacco stubble will conserve plant food and moisture; will destroy insect breeding and feeding places, and help eradicate tobacco diseases.

Tobacco stubble is plowed under in the fall by some few farmers, but the practice has not been generally followed. However, some of the leading tobacco authorities insist that this should be done for the best results.

**Early Destruction of Cotton Stalks**  
For several years past I have

strongly advocated the destruction—early destruction—of cotton stalks. This is recognized as a valuable aid to boll-weevil control. The stalks should be plowed into the soil before the first frost. One of the easiest ways to do this is to chop the stalks down with a stalk cutter, and then turn them into the soil by the use of a two mule breaking plow, or with tractors and plows.

### TOWE—POWELL

Of interest to their many friends was the marriage of Miss Madge Powell to Mr. Martin S. Towe, which took place at the home of Rev. A. A. Butler, in Hertford, on Friday afternoon, with Mr. Butler officiating.

The bride is the attractive only daughter of Mr. and Mrs. George T. Powell, of Winfall. The bridegroom is the youngest son of the late J. H. Towe, Sr., and Mrs. Towe, of Hertford. Both young people are very popular with a wide circle of friends. They are at present making their home with the bride's parents at Winfall.

## SPORTS TALK

By "White"

Well, folks, with the opening of school, this column makes its first appearance. We will endeavor to bring to you the sports highlights, not only of Perquimans, but of the Albemarle.

The P. C. H. S. Indians have been practicing football for the past two weeks, and with the opening of school this year the boys are almost ready for a game.

The squad as a whole is considerably heavier this year than in former years, and both the running and the passing attacks look better.

The schedule that the Indians will follow will be published as soon as it is complete, which will be in the near future.

Coach Carl Rogers, who came to Perquimans last year, is back on the job again.

I see that the first prediction of the Duke-Colgate game is Duke 25, Colgate 0. What do you think?

## H. G. WINSLOW

Insurance - Real Estate

Attorney-at-Law

Office Facing Court House Square

## Town of Hertford, North Carolina Statement of Financial Condition June 30, 1936

### Assets:

Cash in bank and on hand	\$ 837.99
Water and light accounts receivable (net)	7,224.66
Miscellaneous accounts receivable	419.13
Uncollected taxes—less reserve for losses	7,238.15
Paving assessments	8,720.56
Notes receivable—less reserve for losses	3,040.95
Town properties	271,183.25
<b>Total assets</b>	<b>\$298,664.69</b>

### Liabilities:

Accounts payable	\$ 3,324.85
Bond interest in default	4,460.00
Bonds principal outstanding	162,000.00
Hertford graded school tax account	644.55
Notes payable	800.00
Meter deposits	188.75
Advance collections—1936 taxes	1,039.33
<b>Total liabilities</b>	<b>\$172,457.48</b>
Operating funds surplus	8,823.96
Capital fund surplus	117,383.25
<b>Total liabilities and surplus</b>	<b>\$298,664.69</b>

### CASH RECEIPTS AND DISBURSEMENTS

FISCAL YEAR ENDED JUNE 30, 1936

### Receipts:

Taxes and penalties collected	\$ 13,789.50
Privilege taxes collected	866.13
Water and light department collections	24,129.01
Ice sold	5,235.57
Miscellaneous receipts	1,163.18
<b>Total receipts</b>	<b>\$ 45,183.39</b>
CASH BALANCE JULY 1, 1935	1,673.83
<b>Total receipts and balances</b>	<b>\$ 46,857.22</b>

### Disbursements:

General fund expenses	\$ 11,535.42
Payment to Hertford Graded Schools	1,243.56
Water, light and ice department	17,665.03
Water and light bonds and interest	12,598.00
General fund bonds and interest	2,977.22
<b>Total disbursements</b>	<b>46,019.23</b>

BALANCE—CASH ON HAND JUNE 30, 1936.....\$ 837.99

### Certificate:

We hereby CERTIFY that we have compiled the above from our audit report on the Town of Hertford for the fiscal year ended June 30, 1936.

Raleigh, N. C.  
August 15, 1936.

**WILLIAMS & WALL**  
By James M. Williams, Certified Public Accountant