

### Stress Plan To 'Live-At-Home'

Federal Department Of Agriculture Stressing Idea Of Farmers Making Living Out Of Their Work

Whether farmers should give their first attention to producing an adequate food supply for use on their own farms and reduce to a secondary consideration specializing in large scale production of selected crops, is a chief topic of thought among them this summer.

The topic has been stirred up by the Federal Department of Agriculture which in a effort to

help farmers make a living out of agriculture is conducting a publicity campaign for promotion of diversified farming in the country. Meanwhile the department's extension service officials reported satisfactory progress in "Live-at-Home" campaigns in various states.

Officials of the agricultural department have expressed the view that if farmers throughout the nation will produce the milk, livestock, vegetables, feed for livestock, and other various farm products that can be consumed at home, and secondary specialize in large scale production of wheat, corn, cotton, tobacco, or the like, a considerable part of the nation's relief problem will be solved and surpluses in some crops will be reduced with a consequent rise in prices of farm

products. Reports indicate that a great number of farmers throughout the country are cooperating in the suggested program, and an even greater number will do so next year, though other reports indicate that many farmers, too, prefer to continue to favor specialization with a resultant greater efficiency of production, and gamble on the prices they will get.

#### LOAN BASIS

Farmers planning to borrow money are warned by finance specialists to determine as a loan basis the land's productivity rather than its selling price.

## THE POULTRY BUSINESS IS YEAR-ROUND UNDERTAKING

State College Specialist Discusses Various Problems That Confront Persons Starting In Chicken Business

IMPORTANT TO GET GOOD BABY CHICKS

Dearstyne Gives Some Of Interesting Statistics Governing Poultry Production In This State

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Each year the poultry industry in North Carolina is confronted with the very vital problem of starting and rearing baby chicks to the age where they are placed in the laying house to replace those layers which through lack of performance or for other reasons are eliminated from the adult flock by culling.

To some poultrymen this is a routine procedure, and often carried through with mechanical precision and little thought except that layers must be replaced by younger layers and that a poultry house must be filled with chickens if a successful year is to result. To others, the more thoughtful members of the industry, this phase of poultry work is of vital importance. The breeding in the baby chicks is the basis of future performance, and these poultrymen purchase chicks only after the most careful investigation of their source.

#### "Quality Chicks"

The term "quality chick" implies that the chicks are from disease-free parents, as far as can be ascertained; true to the standard for the breed; and of superior performance.

In the use of the term "disease-free," it is implied that the parents of the chicks have been blood-tested and that carriers of pullorum disease have been removed from the breeding flock. While such a test presents certain factors or error, it is the best and only safeguard that science has been able to develop and in North Carolina where the test has been properly applied by trained workers and a program of repeated testing carried out as is done by the Department of Agriculture, it has reduced pullorum disease to a very low per cent. Other factors which might be reflected in livability of chicks and which revert back to the parents are low vitality of breeders brought about by poor management, heavy parasite infestations, and the affection of certain members of the breeding flock by disease which might be classed as constitutional diseases.

#### Pure Breeding

"True to the standard of the breed," is a designation which implies pure breeding. Purebred livestock is a mark of progress on any farm. Market demands for chicks, hatching eggs and breeding birds almost necessitate that the breeders be true to breed without disqualifications or outstanding defects.

"Performance of parents," especially the female, is of utmost importance in poultry breeding. It has been proven that many of the valuable characteristics as well as some detrimental factors are passed from parents to offspring in poultry breeding. Of the valuable characteristics transmitted, we find (1) intensity and persistency of lay, which means laying intensely over a long period of time which is reflected in the total annual production of the bird; (2) early sexual maturity, which is that period of time elapsing from the time the chick is hatched until the first egg is laid. This factor is important in that developing pullets must be fed and housed without return until they come into lay. Consequently, when careful breeding reduces this unproductive span of time, the poultryman makes a distinct saving.

#### Egg Size

Those poultrymen marketing eggs on the open market realize the significance of egg size. Growing of eggs is rapidly coming to the front in North Carolina and a marked premium is to be secured on a number one egg over a number two.

Hatchability of fertile eggs means that there is a great probability that certain birds lay eggs which do not contain a viable reproductive cell. Such eggs show extremely low hatchability and there is reason to believe that this factor is hereditary.

Early feathering is of extreme importance to the producer of broilers and likewise, in all probability, related to breeding as well as to management.

Among some of the undesirable factors transmitted are broodiness, a condition known as long winter pause, and probably the lack of constitutional vigor or the ability to live.

#### Chick Sources

Considering the above brief resume of what enters quality chicks, and also the fact that quality chicks can be obtained in North Carolina as well as in other states, is it not wise for those starting baby chicks to investigate chick sources carefully before making a purchase? Undoubtedly this year, as in past years, baby chicks will be offered

for sale at ridiculously low prices, and will be sold in large numbers, as in the past, to those people who falsely believe they are effecting an economy in purchasing such chicks. If we stop to consider the careful management, culling and breeding, which must be practiced if a quality chick is to be produced, is it reasonable to assume that this producer and the hatcheryman can both secure a profit and offer quality chicks for sale at extremely low prices as are often advertised?

The poultry industry will advance relative if the breeding practices carried out. All counties in North Carolina have agricultural advisers and the poultryman who is in doubt as to where to secure his baby chicks will do well to consult their advisers.

Poultry production is probably as widely practiced in North Carolina as any other branch of agriculture. Federal census figures indicate that over 88 per cent. of the farms in the state are keeping and producing poultry products to a greater or lesser degree. Because of its wide-spread nature, many people seem to look on this industry in a matter-of-fact way not realizing that it is an industry of potential greatness and is developing from a farm flock state to a healthful business and far removed from "boom" features, that so often end in disaster.

According to the 1935 U. S. Department of Commerce census figures, North Carolina leads the South Atlantic states with 8,806,113 chickens over three months of age on the farm. The state is ideal for poultry production because of climate, soil and the fact that from most sections of the state it is less than a 24-hour haul to such markets as Washington, Baltimore, Philadelphia and New York. This fact offers opportunities for commercial production, considering the fact that egg producers in California have found it profitable to ship eggs across the continent to New York.

#### Paralleled Growth

The growth of the poultry industry in any state should be paralleled or preceded by a like growth of both the hatchery and the milling industry. The past ten years has seen a very rapid development of these two allied industries in North Carolina. Starting in 1931, a State Hatchery Association was organized in North Carolina with a limited number of members interested in pullorum disease eradication. This association has grown until at the present time it has over 50 members and represents well over 1,500,000 incubator capacity. This spring the hatcheries will incubate eggs from over 1,200 supply flocks, both the flocks and the hatcheries operating under the national poultry improvement plan directed in this state by the Department of Agriculture.

Because of the continued improvement in breeding programs in the supply flocks, the quality of the North Carolina chick is becoming better each year, and at the present time, the purchasers of baby chicks do not have to send great distances to secure quality chicks.

#### Flock Demonstrations

Record of performance work in the state, started in 1936, now has 13 breeders doing officially supervised breeding and trapnesting work.

A mounting interest has been shown by poultrymen throughout the state in the flock demonstration record work conducted by the State College extension service. This work was started in 1937 with 32 flocks consisting of 5,400 birds. The outcome of the year's work was that the birds completing the year laid 136 eggs per bird with a return of \$1.44 per bird over feed cost. This work has steadily increased in volume until in 1936-37, 3,800 flocks containing 70,929 birds completed the year with a performance of 168 eggs per bird and a return of \$1.70 per bird over feed cost. While these birds were without doubt, better bred and more carefully managed than the rank and file of the North Carolina poultry population, the 1936-1937 record is impressive in the fact that large numbers are considered and that this represents at least a cross-section of the possibilities of poultry production under North Carolina conditions.

#### Members Progressive

In general, the members of the industry are progressive. There has been a decided increase in interest in better breeding. Breeder hatcheries in the state are receiving more patronage each year and the hatcheries, recognizing this interest, are giving more attention to the breeding programs of their supply flocks, some hatcheries having practically all of the supply flocks mated with pedigreed males or with progeny from these. The purchasing of chicks on the basis of price alone is on the decline, all of which speaks well for the building up of the industry.

### First Border Belt Tobacco Fair To Be Held At Armory Three Days August 11-13 (Continued from page 1)

Class 2.—Leaf:

- A. Lemon leaf, 1st prize, \$5.00
- Lemon leaf, 2nd prize, \$3.00
- Lemon leaf, 3rd prize, \$2.00
- B. Orange leaf, 1st prize, \$5.00
- Orange leaf, 2nd prize, \$3.00
- Orange leaf, 3rd prize, \$2.00

Class 3.—Cutters:

- A. Lemon cutters, 1st prize, \$5.00
- Lemon cutters, 2nd prize, \$3.00
- Lemon cutters, 3rd prize, \$2.00
- B. Orange cutters, 1st prize, \$5.00
- Orange cutters, 2nd prize, \$3.00
- Orange cutters, 3rd prize, \$2.00

Class 4.—Lugs:

- A. Lemon Lugs, 1st prize \$5.00
- Lemon Lugs, 2nd prize, \$3.00
- Lemon lugs, 3rd prize \$2.00
- B. Orange lugs, 1st prize, \$5.00
- Orange lugs 2nd prize, \$3.00
- Orange lugs 3rd prize \$2.00

Class 5.—Collection (To consist of at least two grades of each group—leaf, cutters and lugs.)

- Collection, 1st prize, one ton of fertilizer.
- Collection, 2nd prize, \$4.00
- Collection, 3rd prize, \$2.00

### TOBACCO IS NATIVE TO U. S. BUT IS USED OVER WORLD (Continued From Page 1.)

pical to north temperate climates. Tobacco for cigars is grown in the northeastern United States and Florida. The manufacturing

leaf is grown in the middle east. Yellow tobacco flourishes in the Southern Piedmont region. Kentucky and Ohio provide the White Burley tobacco, while the strongest tobacco, Perique, is grown in Louisiana. Cuba grows the finest tobacco for cigars, Europe furnishes cigars, also. Turkey is noted for its aromatic tobacco used in cigarettes. Dark leaves are grown in Japan and light-tissued, flavorless tobacco grows in China.

But of all these nations the United States leads in the production of the world's 4,000,000,000 pounds annual supply. North Carolina is the largest tobacco-growing state of the forty-eight. The United States also imports and consumes more tobacco than any other nation.

In the manufacture of cigarettes the leaf is threaded. Leaves are stripped of their midribs for cigars. The better half-leaves are used as wrappers. Cheroots are made just like cigars except in their shape, and come chiefly from the Philippine Islands. Mexican tobacco has recently been used for cigars. Snuff is prepared from the stalks and ribs which are discarded by the tobacco manufacturer. Dark tobacco leaves are used to make Rappee, a strong snuff. Snuff is often adulterated. Cigars cigarettes rarely.

The most expensive brands of cigars and cigarettes are made by hand, but the less expensive cigarettes, as well as chewing and smoking tobacco and snuff are manufactured by highly perfected machinery. It is often flavored with "spices" made of sugar, licorice, saffron, etc. The principal manufacturing centers of to-

bacco products in the United States are: Winston-Salem, St. Louis, Durham, Jersey City, Richmond, Cincinnati, Baltimore, New York, and Orleans.

The tobacco plant is a member of the nightshade family, is a close relative of the tomato, or deadly nightshade, the tomato, of the potato, and the jimson weed.

### BRICK FLOOR IS TRIED IN CURING BARN THIS YEAR (Continued From Page 1.)

ants. He said all tobacco growers were welcome to call at the barn to inspect the experimental barn. He interviewed the Malones. He said all the barns on the farm would be floored. A brick floor should pay for itself several times over in a season, he said.

### Tobacco Pipes Made In Many Shapes And Forms (Continued From Page 1.)

which have reservoirs for tobacco-juice, which is put into the mouth, and which have three bowls.

In New Guinea pipes consist of large hollow cylinders of bamboo with only one hole at one end through which smoke is drawn into the mouth. East Africa sometimes make pipes out of telope's horns by inserting a piece of wood in the middle of the horn on which the bowl is carried. Eskimos, the Chinese and the Japanese have pipes with small metal bowls. The smoker tries all these various kinds, his decision is that the modern pipe is the

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