

## NORTH CAROLINA RANDOM SAMPLE EGG LAYING TEST

Third Year - Growing Report  
February 10 through July 9, 1961

The North Carolina Random Sample Poultry Tests are conducted at the Piedmont Research Station under the auspices of the N. C. Department of Agriculture and the School of Agriculture of N. C. State College.

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The laying test is designed to assist the commercial poultrymen of North Carolina in evaluating the productivity of stocks of chickens that are available to them in quantity. Flock management is in accord with good commercial practices in the state and the factors that are measured and reported are those of economic importance. A committee representing the various poultry interests of the state advises the Steering Committee in establishing policies and practices that best serve the primary purpose of the test.

Chicks were secured from a case of eggs that were selected by random procedure from at least ten cases of eggs at the participating hatchery. A representative of the official state agency and a local public employee in Agriculture served as a committee of two to make the selection and seal the sample for shipment to the test site. All eggs were incubated at the test site in trays assigned at random. Chicks were sexed and 120 pullets were wingbanded (when available) for growing in replicated pens of 60 pullets. Up to seven additional pullets per pen (when available) were started to provide a sample for challenge in connection with evaluation of the vaccination program. These birds were considered in the same category as first week mortality, sexing errors, and accidental

deaths and all effects of their inclusion were removed from the data before summarization.

The chicks were fed an all-mash starting ration for 8 weeks and an all-mash growing ration for the remainder of the growing period. The vaccination program was: intra-ocular Newcastle-Bronchitis at 1-day-old, Newcastle dust at 4-weeks-old, and Newcastle-Bronchitis dust at 17-weeks-old; Coccidiosis vaccine at 5-days-old; and Fowl Pox in the wing web at 13-weeks-old.

In the data summary, the entry number was drawn at random. The breeder is identified by name only on the summary sheet. Complete identification of the stock is made on the last page of this report. Net pullets at 1 week excludes first week mortality, sexing errors, disease-challenge sample, and accidental deaths. Mortality, 8 through 150 days, is the average of accountable mortality in the two pens of the entry. Average feed per pullet--first 150 days is based upon bird-days and does not charge feed consumed by birds that died against survivors. Average body weight at 150 days is the average weight of all survivors. Feed and chick cost per pullet at 150 days distributes the total cost of net pullets at one week and the feed which they consumed equally among the survivors and, therefore, includes cost of mortality. Feed costs are based on 3-year monthly averages as reported by the N. C. Department of Agriculture. Chick prices are obtained from the local distributors price lists for the current and preceding two years in 1000 lots. Average eggs per pullet at 150 days indicates the general maturity level of the entry at housing.

Third Test - Growing Period - 1961

Entry No.	Breeder	Net pullets at 1 week	Mortality 8 through 150 days (%)	Average feed per pullet - first 150 days	Average body weight - 150 days	Feed & chick cost per pullet - 150 days	Average eggs per pullet at 150 days
1.	Heisdorf and Nelson	118	0	19.7 lbs.	3.6 lbs.	\$1.33	0.43
2.	Cashman	117	0.9	20.8	3.8	1.38	0.27
3.	Cornell	119	3.3	20.3	3.7	1.35	0.21
4.	Rapp	117	1.7	19.9	3.5	1.29	0.12
5.	Hubbard	120	2.5	24.5	4.9	1.49	0.79
6.	Hy-Line	117	0.9	19.7	3.5	1.48	0.36
7.	Ghostley	119	0.8	20.0	3.5	1.33	0.02
8.	Ames	119	0	23.1	4.8	1.52	0.34
9.	Colonial	118	4.2	20.2	3.7	1.38	0.67
10.	Beamsdale	117	4.2	19.9	3.5	1.31	0.13
11.	Arbor Acres	117	1.7	19.6	3.5	1.32	0.08
12.	Honegger	119	0	19.8	3.5	1.34	0.19
13.	Babcock	120	0.8	20.4	3.8	1.37	0.50
14.	Brender	117	1.7	19.7	3.5	1.36	0.19
15.	Parmenter	119	6.7	23.3	4.7	1.49	0.11
16.	DeKalb	120	1.7	19.7	3.5	1.46	0.43
17.	Kimber	119	0	20.8	3.8	1.47	0.76
18.	Fletcher	120	5.8	19.9	3.6	1.31	0.17
19.	Harco	120	2.5	25.6	5.3	1.48	0.52
20.	Warren	119	2.5	22.6	4.5	1.46	0.19
	Average	119	2.1	21.0	3.9	1.40	0.32

## LIST OF ENTRIES IN THIRD N. C. RANDOM SAMPLE LAYING TEST

<u>BREEDER AND ADDRESS</u>	<u>STOCK DESIGNATION</u>	<u>SOURCE OF SAMPLE</u>
Ames In-Cross, Des Moines, Iowa	IBX 505	Mid-Valley Hatchery, Dayton, Va.
Arbor Acres Farm, Inc. Glastonbury, Conn.	WL Str. X Queens	Arbor Acres Farm, Inc. Concord, N. C.
Babcock Poultry Farms Ithaca, N. Y.	WL 3wX Bonnie	Babcock Poultry Farm Ithaca, N. Y.
Beamsdale Farm Lawndale, N. C.	WL Str. X 66	Beamsdale Hatchery, Lawndale, N. C.
Brender's Leghorns Ferndale, N. Y.	WL 4wX Moneymaker 1	Brender's Leghorns, Ferndale, N. Y.
Cashman Leghorn Farms Webster, Ky.	WL 3wX Hi-Cash Layers	Bowers Bros. Hatchery, Albemarle, N. C.
Colonial Poultry Farms, Inc. Pleasant Hill, Mo.	WL INX 365	Colonial Hatchery, Cullman, Ala.
Cornell University, Ithaca, N. Y.	WL Ran. Bred	Cornell University, Ithaca, N. Y.
DeKalb Agricultural Assn. Sycamore, Ill.	IBX 151	DeKalb Agri. Assn. Hatchery, Illioopolis, Ill.
J. O. Fletcher & Son, Concord, N. C.	WL Str. X F-X-100	J. O. Fletcher & Son Hty., Concord, N. C.
Ghostley's Poultry Farm, Anoka, Minn.	WL 3wX Pearls	Kelly Poultry Farm, Garner, N. C.
Harco Orchards & Poultry Farms, Inc., South Easton, Mass.	XB Sex-Links	Joe K. Davis Hatchery, Earl, N. C.
Heisdorf & Nelson Farms, Inc. Kirkland, Wash.	WL Str. X "Nick Chick"	J. C. Castleberry Hatchery, Apex, N. C.
Honegger Breeder Hatchery, Forrest, Ill.	WL Str. X Layers	FCX Hatchery, Wallace, N. C.
Hubbard Farms, Walpole, N. H.	XB Pioneer	Hubbard Farms, Inc. Statesville, N. C.
Hy-Line Poultry Farms, Des Moines, Iowa	INX 934-H	Tar Heel Chicks Hatchery, Monroe, N. C.
Kimber Farms, Inc. Fremont, Calif.	WL 3wX A 100	Hubbard Farms, Inc. Statesville, N. C.
Parmenter Reds, Inc. Franklin, Mass.	RIR Str. X PM1	Parmenter Reds, Inc. Franklin, Mass.
Rapp Leghorn Farm, Inc. Farmingdale, N. J.	WL Str. X Linecross	Rapp Leghorn Farm, Inc. Farmingdale, N. J.
J. J. Warren, Inc. North Brookfield, Mass.	XB Sex-Sal-Link	J. J. Warren South, Inc. Greenville, S. C.