

NORTH CAROLINA RANDOM SAMPLE EGG LAYING TEST

Second Year - Growing Report
February 12 through July 10, 1960

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 4-months-old; Coccidiosis vaccine at 5-days-old and again at about 10-weeks when the challenge sample had shown incomplete immunity; and Fowl Pox in the wing web at 3-months-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 pullett--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.

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	Cornell University	110	1.7%	18.1 lbs.	3.3 lbs	\$1.29	0.03
2	Kimber	115	1.7	17.7	3.3	1.31	0.13
3	Hy Line	119	0	17.8	3.2	1.44	0.06
4	Honegger	120	3.8	17.5	3.1	1.31	0.03
5	Ames	116	0	20.8	4.4	1.51	0.03
6	Hubbard	119	4.1	21.5	4.7	1.45	0.26
7	Parmenter	108	3.6	21.2	4.4	1.33	0.07
8	Arbor Acres	119	1.5	18.0	3.3	1.30	0.01
9	Rapp	119	10.6	17.1	3.1	1.31	0
10	Heisdorf and Nelson	116	2.4	17.8	3.2	1.32	0.27
11	Cashman	110	1.6	18.4	3.4	1.33	0
12	Colonial	113	6.2	18.0	3.3	1.35	0.18
13	Ghostley	113	1.6	18.5	3.3	1.31	0.05
14	Warren	118	0.9	20.3	4.2	1.39	0.04
15	Beamsdale	115	0.9	17.8	3.3	1.23	0.10
16	Babcock	116	3.3	18.7	3.5	1.37	0.16
17	Harco	113	3.7	22.5	4.8	1.52	0.40
18	Brender	111	0.8	17.9	3.3	1.30	0.01
19	Fletcher	117	3.0	17.6	3.3	1.24	0.04
20	DeKalb	112	0	18.2	3.4	1.44	0.36
Average		115	2.6	18.8	3.6	1.35	0.11

LIST OF ENTRIES IN SECOND N. C. RANDOM SAMPLE LAYING TEST

<u>NAME AND ADDRESS</u>	<u>Stock Designation</u>	<u>Source of Sample</u>
Ames In-Cross, Des Moines, Iowa	IBX 505	Suffolk Chick Hatchery Suffolk, Va.
Arbor Acres Farm, Inc., Glastonbury, Conn.	WL Str.X Mt. Hope Queen	Joe K. Davis Hatchery Earl, N. C.
Babcock Poultry Farms, Ithaca, N. Y.	WL 3wX Bessies	Harrolds Hatchery, Inc. Winterville, Ga.
Beamsdale Farm, Lawndale, N. C.	WL Str.X 66	Beamsdale Hatchery Lawndale, N. C.
Brender's Leghorns, Ferndale, N. Y.	WL 4wX Money Maker 1	Brender's Leghorns Ferndale, N. Y.
Cashman Leghorn Farms, Webster, Ky.	WL 3wX Hi-Cash	Bowers Bros. Hatchery Albemarle, N. C.
Colonial Poultry Farms, Inc. Pleasant Hill, Mo.	WL INX 365	Foard's Hatchery Burgaw, N. C.
Cornell University, Ithaca, N. Y.	WL Ran. Bred	Cornell University Ithaca, N. Y.
DeKalb Agricultural Assn. Sycamore, Ill.	IBX 131	Raleigh Hatchery Raleigh, N. C.
J. O. Fletcher & Son Concord, N. C.	WL Str.X F-X-100	Fletcher Hatchery Concord, N. C.
Ghostley's Poultry Farm, Anoka, Minn.	WL 3wX Pearls	Beamsdale Hatchery Lawndale, N. C.
Harco Orchards & Poultry Farms, Inc., South Easton, Mass.	XB Sex-Links	Harco Orchards & Poultry Farms, Inc., S. Easton, Mass.
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 Garner, N. C.
Hubbard Farms, Inc. Walpole, N. H.	XB H-496	Hubbard Farms, Inc. Statesville, N. C.
HyLine Poultry Farms Des Moines, Iowa	IBX 934-H	Belk Poultry Farm Monroe, N. C.
Kimber Farms, Inc. Niles, Calif.	WL 3wX K-137	Hubbard Farms, Inc. Statesville, N. C.
Parmenter Reds, Inc. Franklin, Mass.	RIR Str.X PM	Belk Poultry Farms Monroe, N. C.
Rapp Leghorn Farm, Farmingdale, N. J.	WL Str.X Linecross	Quinn Hatchery Murphy, N. C.
J. J. Warren North Brookfield, Mass.	XB Sex-Sal-Link	J. J. Warren, South, Inc. Greenville, S. C.