

NORTH CAROLINA RANDOM SAMPLE EGG LAYING TEST

Fourth Year - Growing Report
February 9 through July 8, 1962

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. Mr. S. J. Childs, Route 6, Salisbury, N. C., is Resident Manager and Dr. G. A. Martin, N. C. State College, Raleigh, N. C., is Project Leader.

The laying test is designed to assist the commercial poultryman 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.

First week mortality, sexing errors, and accidental deaths were not charged against mortality 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.

Fourth Test - Growing Period - 1962

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.	Fletcher	113	0.9	17.9 lbs.	3.4 lbs.	\$1.13	0.18
2.	Eby	118	0.8	17.9	3.4	1.12	0.09
3.	Ideal	115	3.5	17.4	3.3	1.14	0.07
4.	Hy-Line	118	1.7	17.9	3.4	1.35	0.65
5.	Cornell	110	1.8	17.5	3.4	1.18	0.10
6.	Beamsdale	108	1.9	18.6	3.4	1.20	0.42
7.	DeKalb	116	0.9	17.7	3.4	1.32	0.42
8.	Garrison- Stever	117	0.9	16.9	3.2	1.10	0.08
9.	Kimber	118	2.6	18.0	3.6	1.24	0.42
10.	Babcock	119	1.7	19.3	3.7	1.26	0.76
11.	Cashman	117	2.6	17.9	3.5	1.24	0.07
12.	Harco	116	0.9	22.2	4.9	1.37	0.08
13.	Ghostley	114	0.9	17.8	3.5	1.22	0.07
14.	Ames	118	0.8	21.3	4.8	1.42	0.32
15.	Rapp	119	2.5	17.0	3.3	1.15	0.03
16.	Brender	117	0.8	17.1	3.4	1.17	0.13
17.	Demler	115	2.6	16.3	3.8	1.19	0.65
18.	Honegger	113	2.7	17.8	3.5	1.22	0.56
19.	Heisdorf- Nelson	117	2.6	17.9	3.5	1.23	0.32
20.	Arbor Acres	112	1.8	17.7	3.5	1.15	0.37
	Averages	115	1.7	18.1	3.5	1.22	0.29

LIST OF ENTRIES IN FOURTH 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, Virginia
Arbor Acres Farm, Inc. Glastonbury, Conn.	WL Str. X Queens	Arbor Acres Farm, Inc. Concord, N. C.
Babcock Poultry Farms Ithaca, N. Y.	WL Str. X B-300	Harrolds Hatchery Winterville, Ga.
Beamsdale Farm Lawndale, N. C.	WL Str. X 66	Beamsdale Hatchery Lawndale, N. C.
Brender's Leghorns Ferndale, N. Y.	WL 4wX "Beauty" pullets	Brender's Leghorns Ferndale, N. Y.
Cashman Leghorn Farm Webster, Ky.	WL 3wX Hi-Cash	Bowers Bros. Hatchery Albemarle, N. C.
Cornell University Ithaca, N. Y.	WL Ran. Bred	North Central Poultry Breeding Project, Lafayette, Ind.
DeKalb Agricultural Assoc. Sycamore, Ill.	IBX 151	All Star Mills, Albemarle, N. C.
Demler Farms, Inc. Anaheim, Calif.	XB 3wX Demler KROSS	Raleigh Hatcheries, Inc. Raleigh, N. C.
Eby's Poultry Farm Carrollton, Texas	IBX 681 Hybrids	Eby's Poultry Farm Carrollton, Texas
J. O. Fletcher & Son Concord, N. C.	WL Str. X F-X-100	J. O. Fletcher & Son Hatchery, Concord, N. C.
Earl W. Garrison, Inc. Bridgeton, N. J.	WL 4wX Garrison-Stever-Hi-Bred	Joe Stever Farm Huntington, Pa.
Ghostley's Poultry Farm Anoka, Minn.	WL 3wX Pearls	Beamsdale Hatchery Lawndale, N. C.
Harco Orchards & Poultry Farms, Inc., South Easton, Mass.	RIR PS Group I	Harco Orchards & Poultry Farms, So. Easton, Mass.
Heisdorf & Nelson Farms, Inc. Kirkland, Washington	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.
Hy-Line Poultry Farms Des Moines, Iowa	IBX 934-H	Tar Heel Chicks Hatchery Monroe, N. C.
Ideal Poultry Breeding Farm Cameron, Texas	WL 3wX H-3-W	Asheville Hatcheries, Inc. Asheville, N. C.
Kimber Farms, Inc. Fremont, Calif.	WL 3wX K-137	Hubbard Farms, Inc. Statesville, N. C.
Rapp Leghorn Farm, Inc. Farmingdale, N. J.	WL Str. X Linecross	Joe K. Davis Hatchery Earl, N. C.