AGRICULTURAL EXTENSION SERVICE

## NORTH CAROLINA STATE UNIVERSITY

AT RALEIGH

SCHOOL OF AGRICULTURE AND LIFE SCIENCES

Office of Extension Poultry Science Scott Hall Box 5807 Zip 27607

I am enclosing the report of the growing period for the Ninth North Carolina Random Sample Laying Test which you have requested. Please circulate it among your associates in order that maximum use of it may be made. If additional copies are needed, the request should be sent to Mr. S. J. Childs, Jr., Piedmont Research Station, Route #6, Salisbury, N. C. 28144.

The design of this test provides each entry with two pens of 88 sexed pullets reared on hardwood slat floors and two pens of 88 sexed pullets reared in an area that has about 37% hardwood slat floor and about 63% concrete floor with shavings litter. Floor space allowance is about one and  $1\frac{1}{2}$  square feet per bird, respectively. At 150 days, two pens of 50 birds are placed on hardwood slats at one square foot, 2 pens of 50 birds are housed in half slat-half litter pens at  $1\frac{1}{2}$  sq. ft. and 4 blocks of 26 birds are placed in 10"x18" cages at 2 birds per cage.

Very truly yours,

Brady A. Martin

Extension Poultry Specialist

NINTH NORTH CAROLINA RANDOM SAMPLE LAYING TEST Growing Report March 24, 1967, through August 20, 1967.

The North Carolina Random Sample Laying Tests are conducted under the auspices of the Agricultural Extension Service of North Carolina State University and the North Carolina Department of Agriculture. Mr. S. J. Childs, Jr., is Resident Manager of the Tests, and Dr. G. A. Martin is Project Leader. The purpose of the Tests is to assist poultrymen in evaluating stocks of commercial layers.

Samples of 1,080 freshly gathered eggs were taken at randomly selected supply flocks or by random sampling from egg rooms when nest sampling was not feasible. Public employees in agriculture selected the samples, sealed the cases, and sent them to the test site where all eggs were incubated. 352 sexed pullets (when available) were placed in four pens as described above. First week mortality, sexing errors, and accidental deaths were not charged against the entry.



All-mash rations were mixed at the test site. A starting ration was fed for the first 56 days and a growing ration for the last 94 days of the period. All birds were debeaked early, vaccinated for Newcastle and bronchitis in water at 5 days, 5 weeks, and 17 weeks, vaccinated for Pox via wing web at 14 weeks, and vaccinated for Avian encephalomyelitis at 20 weeks. Birds having shavings litter were vaccinated for coccidiosis at 5 days and low level trithiodol was added to the feed to 9 weeks.

The tables list the combined data for the entry (Table 9 G-C) and the data for each type of housing (Tables 9 G-S & L). The entry number was drawn at random. The breeder is fully identified later with stock identification, availability of flock list, number of birds in flocks sampled, sampling procedure, and source of sample. Net pullets at one week excludes first week mortality, sexing errors and accidental deaths. Mortality, 8 through 150 days is the average of pen data. Average feed per pullet for 150 days is based upon bird days and does not charge the feed consumed by birds that died against survivors. Average body weight at 150 days is the average weight of the survivors. Feed and chick cost per pullet housed distributes the total cost of the net pullets at one week and the feed which they consumed equally among the survivors and, therefore, includes the cost of mortality. Feed costs are based upon 3-year averages of monthly price quotations from the N. C. Department of Agriculture. Chick prices are the 3-year averages of prices quoted by the distributors. Average eggs per pullet at 150 days indicates the general maturity level of the entry at housing.

	Combined dat	a.	GROWING PER	RIOD - TABLE	9 G-C		311
					1	T1 C Cl-1-1-	A E
Entr			Mortality	Av. lbs or	Av. Body	Feed & Chick	Av. Eggs per pullet
No.		lets at		Feed/pul-	Wt. at	Cost/Pullet	to 150 da.
		one week	%	let 150 da.	150 da.	Housed	to 150 da.
	No. 100 March 1984	201	0. /	21.4	4.7	\$1.29	0.04
1	Davis (Sex Lk.)	284	2.4	16.7	3.1	1.11	0.23
2	Kimber (K-137)	340	1.8	16.9	3.0	1.11	0.12
3	Whelp's (937)	287	1.7		3.5	1.20	0.29
4	Shaver (*X288)	278	5.4	18.5	3.5	1.20	0.23
			. 0	16.7	3.1	1.15	0.04
5	Ind.Fm.Bu(Prin.55)	292	4.8	18.8	3.8	1.19	0.32
6	Garber (GX 291)	291	5.4		4.2	1.26	0.15
7	Hubbard (Gld.Come		1.5	20.7	3.2	1.18	0.41
8	Colonial (365-B)	303	4.9	17.2	3.2	1.10	0.41
	a 1 (711 0h)	269	4.8	18.4	3.4	1.20	0.02
9	Cashman (Hi-Cash)		2.9	16.1	3.0	1.03	0.03
10	Heisdorf&N (Nick	CK)351	6.8	16.8	3.2	1.15	0.08
11	Kimber (K-141)	298		17.5	3.3	1.09	0.12
12	Stone (H-56)	300	5.7	17.5	5.5	1.07	0.11
10	(02/ E)	333	2.4	17.1	3.0	1.23	0.02
13	Hy-Line (934-E)	328	3.6	17.0	3.1	1.15	0.10
14	Ideal (236)		4.8	17.1	3.2	1.13	0.69
15	Babcock (B-300)	337		16.6	3.0	1.20	0.13
16	Hy-Line (934)	334	1.8	10.0	3.0	1.20	0.15
17	Hamanan (Tamana)	317	3.8	17.8	3.3	1.16	0.31
17	Honegger (Layers)	306	2.7	21.7	4.5	1.25	0.04
18	Davis (RIR)		3.8	22.0	4.7	1.30	0.07
19	Sturtevant (Sex L	K) 200	4.6	17.9	3.5	1.17	0.06
20	Parks (Keystone)	348	4.0	11.9	3.5	/	
	1	311	3.8	18.1	3.5	1.18	0.16
	Average	211	5.0	2012	( <del>33</del> ,00 = 0 = 0		

## GROWING PERIOD - TABLE 9 G - S&L

		- 0	GROWING PER	7	0 000		
Slate							
7200		et Pul-	Mortality		Av. Body	Feed & Chick	
Entry		ets at		Feed/Pullet	Wt. at	Cost/Pullet	Pullet to
No.	Breeder 1	week	(%)	(150 da.)	150 da.	Housed	150 days
		8 2 2	12 2				
1	Davis (Sex Lk)	143	3.3	21.0	4.8	\$1.30	0.00
2	Kimber (K-137)	169	2.4	17.1	3.3	1.13	0.24
3	Welp's (937)	145	1.4	17.0	3.1	1.11	0.13
4	Shaver (*X288)	139	8.7	18.7	3.5	1.25	0.34
5	Ind.Fm.Bu (Prin.55)	146	6.9	16.7	3.1	1.17	0.02
6	Garber (GX291)	147	5.4	18.8	3.9	1.19	0.22
			1.7				
7	Hubbard (Gld. Comet)			20.7	4.3	1.25	0.11
8	Colonial (365-B)	154	3.9	17.3	3.2	1.18	0.36
1000		120212			12 700		
9	Cashman (Hi-Cash)	136	5.9	18.3	3.5	1.21	0.01
10	Heisdorf & N (Nick C	k) 176	3.4	16.0	3.0	1.03	0.00
11	Kimber (K-141	145	7.6	16.9	3.2	1.16	0.11
12	Stone (H-56)	149	6.8	18.0	3.3	1.11	0.18
		ē					
13	Hy-Line (934-E)	172	1.7	17.5	3.1	1.24	0.01
14	Ideal (236)	165	4.3	16.8	3.1	1.15	0.15
15	Babcock (B-300)	166	6.0	17.2	3.3	1.14	0.86
16	Hy-Line (934)	172	2.9	17.1	3.1	1.23	0.07
17	Honegger (Layers)	158	3.8	18.3	3.4	1.18	0.34
18	Davis (RIR)	155	1.9	21.8	4.5	1.21	0.03
19	Sturtevant (Sex Lk)	144	4.9	22.4	4.8	1.34	0.02
20	Parks (Keystone)	168	4.8	17.7	3.5	1.16	0.02
	Acceptable approximation of additional contract of the contrac						
	A	156	1. 1.	10.0	2 (	1 10	0.16
	Average	130	4.4	18.3	3.6	1.19	U . 1.0
	Average	156	4.4	18.3	3.6	1.19	0.10
T.11		130	4.4	18.3	3.6	1.19	0.16
124	tter-Slats						
1	tter-Slats Davis (Sex Lk)	141	1.4	21.8	4.7	[1.29	0.07
1 2	tter-Slats Davis (Sex Lk) Kimber (K-137)	141 171	1.4 1.2	21.8 16.3	4.7 3.0	1.29	0.07 0.23
1 2 3	tter-Slats Davis (Sex Lk) Kimber (K-137) Welp's (937)	141 171 142	1.4 1.2 2.1	21.8 16.3 16.8	4.7 3.0 2.9	1.29 1.08 1.11	0.07 0.23 0.10
1 2	tter-Slats Davis (Sex Lk) Kimber (K-137)	141 171	1.4 1.2	21.8 16.3	4.7 3.0	1.29	0.07 0.23
1 2 3 4	tter-Slats Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)	141 171 142 139	1.4 1.2 2.1 2.1	21.8 16.3 16.8 18.3	4.7 3.0 2.9 3.5	1.29 1.08 1.11 1.14	0.07 0.23 0.10 0.24
1 2 3	tter-Slats Davis (Sex Lk) Kimber (K-137) Welp's (937)	141 171 142 139	1.4 1.2 2.1 2.1	21.8 16.3 16.8 18.3	4.7 3.0 2.9	1.29 1.08 1.11	0.07 0.23 0.10
1 2 3 4	tter-Slats Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)	141 171 142 139	1.4 1.2 2.1 2.1	21.8 16.3 16.8 18.3	4.7 3.0 2.9 3.5	1.29 1.08 1.11 1.14	0.07 0.23 0.10 0.24
1 2 3 4	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288) Ind.Fm.Bu (Prin.55) Garber (GX291)	141 171 142 139	1.4 1.2 2.1 2.1	21.8 16.3 16.8 18.3	4.7 3.0 2.9 3.5 3.2 3.7	1.29 1.08 1.11 1.14 1.13 1.18	0.07 0.23 0.10 0.24 0.06 0.42
1 2 3 4 5 6	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288) Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet)	141 171 142 139 146 144 156	1.4 1.2 2.1 2.1 2.7 5.5 1.3	21.8 16.3 16.8 18.3 16.7 18.8 20.7	4.7 3.0 2.9 3.5 3.2 3.7 4.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26	0.07 0.23 0.10 0.24 0.06 0.42 0.18
1 2 3 4 5 6 7	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288) Ind.Fm.Bu (Prin.55) Garber (GX291)	141 171 142 139 146 144	1.4 1.2 2.1 2.1 2.7 5.5	21.8 16.3 16.8 18.3	4.7 3.0 2.9 3.5 3.2 3.7	1.29 1.08 1.11 1.14 1.13 1.18	0.07 0.23 0.10 0.24 0.06 0.42
1 2 3 4 5 6 7 8	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)	141 171 142 139 146 144 156 149	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0	21.8 16.3 16.8 18.3 16.7 18.8 20.7	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46
1 2 3 4 5 6 7 8	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash)	141 171 142 139 146 144 156 149	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46
1 2 3 4 5 6 7 8	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk)	141 171 142 139 146 144 156 149	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46
1 2 3 4 5 6 7 8 9 10 11	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141)	141 171 142 139 146 144 156 149 133 175 153	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.18	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06
1 2 3 4 5 6 7 8	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk)	141 171 142 139 146 144 156 149	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46
1 2 3 4 5 6 7 8 9 10 11 12	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)	141 171 142 139 146 144 156 149 133 175 153 151	1.4 1.2 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.18 1.03 1.14 1.06	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.06
1 2 3 4 5 6 7 8 9 10 11 12	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E)	141 171 142 139 146 144 156 149 133 175 153 151	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236)	141 171 142 139 146 144 156 149 133 175 153 151	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E)	141 171 142 139 146 144 156 149 133 175 153 151	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236)	141 171 142 139 146 144 156 149 133 175 153 151	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236) Babcock (B-300)	141 171 142 139 146 144 156 149 133 175 153 151	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2 2.9 3.2 3.1	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236) Babcock (B-300) Hy-Line (934)	141 171 142 139 146 144 156 149 133 175 153 151 161 163 171 162	1.4 1.2 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5 0.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2 2.9 3.1 3.2	1.29 1.08 1.11 1.14  1.13 1.18 1.26 1.18  1.18 1.03 1.14 1.06  1.21 1.16 1.12 1.17	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05 0.05 0.05 0.52 0.19
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236) Babcock (B-300) Hy-Line (934)  Honegger (Layers)	141 171 142 139 146 144 156 149 133 175 153 151 161 163 171 162	1.4 1.2 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5 0.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2 2.9 3.1 3.2	1.29 1.08 1.11 1.14  1.13 1.18 1.26 1.18  1.18 1.03 1.14 1.06  1.21 1.16 1.12 1.17	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05 0.05 0.05 0.52 0.19
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236) Babcock (B-300) Hy-Line (934)  Honegger (Layers) Davis (RIR)	141 171 142 139 146 144 156 149 133 175 153 151 161 163 171 162	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5 0.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1 16.6 17.3 17.0 16.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2 2.9 3.1 3.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06 1.21 1.16 1.12 1.17	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05 0.05 0.05 0.05 0.19
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236) Babcock (B-300) Hy-Line (934)  Honegger (Layers) Davis (RIR) Sturtevant (Sex Lk)	141 171 142 139 146 144 156 149 133 175 153 151 161 163 171 162 159 151 142	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5 0.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1 16.6 17.3 17.0 16.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2 2.9 3.2 3.1 3.0	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06 1.21 1.16 1.12 1.17 1.13 1.29 1.27	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05 0.05 0.05 0.05 0.19
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236) Babcock (B-300) Hy-Line (934)  Honegger (Layers) Davis (RIR)	141 171 142 139 146 144 156 149 133 175 153 151 161 163 171 162	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5 0.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1 16.6 17.3 17.0 16.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2 2.9 3.1 3.2	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06 1.21 1.16 1.12 1.17	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05 0.05 0.05 0.05 0.19
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Davis (Sex Lk) Kimber (K-137) Welp's (937) Shaver (*X288)  Ind.Fm.Bu (Prin.55) Garber (GX291) Hubbard (Gld. Comet) Colonial (365-B)  Cashman (Hi-Cash) Heisdorf&N (Nick Gk) Kimber (K-141) Stone (H-56)  Hy-Line (934-E) Ideal (236) Babcock (B-300) Hy-Line (934)  Honegger (Layers) Davis (RIR) Sturtevant (Sex Lk)	141 171 142 139 146 144 156 149 133 175 153 151 161 163 171 162 159 151 142	1.4 1.2 2.1 2.1 2.7 5.5 1.3 6.0 3.8 2.3 5.9 4.6 3.1 3.0 3.5 0.6	21.8 16.3 16.8 18.3 16.7 18.8 20.7 17.1 18.4 16.1 16.8 17.1 16.6 17.3 17.0 16.1	4.7 3.0 2.9 3.5 3.2 3.7 4.2 3.3 3.4 2.9 3.1 3.2 2.9 3.2 3.1 3.0	1.29 1.08 1.11 1.14 1.13 1.18 1.26 1.18 1.03 1.14 1.06 1.21 1.16 1.12 1.17 1.13 1.29 1.27	0.07 0.23 0.10 0.24 0.06 0.42 0.18 0.46 0.02 0.06 0.06 0.05 0.05 0.05 0.05 0.19

Breeder	Stock Identification	Sample Proced.*	Source of Sample			
Babcock Poultry Farm, Inc.	Babcock B-300	A	Harrold's Hatchery			
Box 280, Ithaca, N. Y.	WL 3wX		Winterville, Ga.			
Cashman Leghorn Farms	Cashman Hi-Cash	A	Cashman Leghorn Farms			
Webster, Kentucky	WL INX		Webster, Ky.			
Colonial Poultry Farms, Inc. Pleasant Hill, Missouri	True-Line 365-B WL INX	A	Colonial Poultry Farms Inc., Cullman, Ala.			
Joe K. Davis Hatchery Earl, N. C.	Davis RIR SX	A	Joe Davis Hatchery Earl, N. C.			
Joe K. Davis Hatchery Earl, N. C.	Combiner Sex-Link RIRxBPR BX	A	Joe Davis Hatchery Earl, N. C.			
Garber Poultry Breeding Farm Modesta, California	Garber GX 291 CGxWL	A	Joe Davis Hatchery Earl, N. C.			
Heisdorf & Nelson Farms Kirkland, Washington	H&N "Nick Chick" WL SX	A	J. C. Castlebury Poultry Farm, Apex, N. C.			
Honegger Farms Co., Inc. Forrest, Illinois	Honegger Layers WL 3wX	A	Fred Haley Hatchery, Inc. Canton, Ga.			
Hubbard Farms, Inc.	Hubbard Golden Comet	A	Hubbard Farms, Inc.			
Walpole, N. H.	NHxSyn. BX		Statesville			
Hy-Line Poultry Farms	Hy-Line 934	A	Tar Heel Chicks, Inc.			
Des Moines, Iowa	IBX		Monroe, N. C.			
Hy-Line Poultry Farms	Hy-Line 934-E	A	Tar Heel Chicks, Inc.			
Des Moines, Iowa	IBX		Monroe, N. C.			
Ideal Poultry Breeding Farms, Inc	. Ideal 236	<b>A</b>	Ideal Poultry Breeding			
Box 710, Cameron, Texas	4wBX		Farm, Cameron, Texas			
Ind. Farm Bureau Cooperative, Indianapolis, Ind.	Princess 55 WL SX	A&B	Cooperative Breeding Research Fm. Lafayette, Ind.			
Kimber Farms, Inc.	Kimber K-137	A	Hubbard Farms, Inc.			
Fremont, California	WL SX		Statesville, N. C.			
Kimber Farms, Inc.	Kimber K-141	A	Kimber Farms, Inc.			
Fremont, California	WL SX		Fremont, California			
Parks Poultry Farm	Parks Keystones B-1	A	Parks Poultry Farm			
Altoona, Pa.	WL SX		Altoona, Pa.			
Shaver Poul.Breeding Fms. Ltd.	Shaver Starcross 288	В	Mid-Valley Hatchery			
Galt, Ontario, Canada	WL 3wX		Dayton, Va.			
Stone's Poultry Breeding Farm	Stone's H-56	A	E. H. Underwood			
Dinuba, California	WL SX		Bogart, Ga.			
Sturtevant Farms Halifax, Mass.	Sturtevant Black Sex Links RIRxBPR	В	Sturtevant Farms Halifax, Mass.			
Welp's Breeding Farm	Welp Line 937	A	R. G. Smith			
Bancroft, Iowa	WL SX		Flowery Branch, Ga			
*A = nest sample; B = egg room sample; and C = incubator tray sample						