

Kenneth E. Underwood

NORTH CAROLINA

SUPPLEMENTARY
DATA BOOKLET

LAYER PERFORMANCE AND MANAGEMENT TEST

26th Flock

May 1987



Agricultural Extension Service
North Carolina State University
Raleigh, North Carolina

The North Carolina Layer Performance and Management Test is a cooperative effort between the North Carolina Department of Agriculture and North Carolina State University. Extensive evaluation of layer performance statistics are conducted under a variety of environmental and management conditions. General documentation of the performance of the flock is provided in the Growing, Progress, Molting and Final reports of the flock. Requests for reports and other correspondence regarding the test should be sent to:

Dr. John B. Carey
Department of Poultry Science
Box 7608
North Carolina State University
Raleigh, NC 27695-7608

The purpose of this booklet is to provide a detailed summarization of the data generated in the conduct of the test. The use of trade names in this publication does not imply endorsement nor criticism by any agency connected with the test.

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26th Flock

Piedmont Research Station
Salisbury, North Carolina

May 1987

Prepared by:
Dr. John B. Carey
Department of Poultry Science
North Carolina State University
Raleigh, NC 27695-7608

In cooperation with:
North Carolina Department of
Agriculture



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26th NCLPMT SUPPLEMENTAL PERFORMANCE INFORMATION

The data in tables 1-96 are presented in four formats which will be referred to as outlined below:

Entry (Strain): The name of the breeder and the strain entered in the evaluation. See information following data tables.

Cage Type: "S" Denotes performance in shallow (18" x 12") cages. "D" denotes performance in deep (12" x 18") cages.

Birds per Cage: "3" or "4" denotes performance with 3 or 4 birds per cage.

Housing Type: "FL" denotes performance in a curtain-sided flush waste facility. "HR" denotes performance in a curtain-sided high rise facility. "LC" denotes performance in a light and air controlled facility.

A. Production Statistics, Group A:

Eggs per Bird Housed: The total number of eggs produced divided by the number of birds housed at 140 days.

Egg Production: Hen Housed - The average daily number of eggs produced per 100 hens housed at 140 days. Hen Day The average daily number of eggs produced per 100 hen days.

Mortality: The percentage of birds housed at 140 days which have died.

Feed Consumption: The pounds of feed consumed daily per 100 hens.

Pounds of Feed: Per Pound of Eggs - All feed consumed divided by total number of eggs multiplied by average egg weight.

B. Production Statistics, Group B:

Egg Mass: Hen Housed - The average daily production of egg mass in grams per bird housed at 140 days. Hen Day - The average daily production of egg mass in grams per hen day.

Egg Weight: The average egg weight of weekly samples in ounces per dozen eggs.

Haugh Units: The average Haugh Unit score of the eggs.

Specific Gravity Score: The average specific gravity of eggs expressed as follows:

Score Value	Spec. Gravity Range
0	<1.068
1	1.068 - 1.072
2	1.072 - 1.076
3	1.076 - 1.080
4	1.080 - 1.084
5	1.084 - 1.088
6	1.092 - 1.096
7	1.096 - 1.100
	>1.100

C. Egg Size Statistics:

Egg Size Distribution: The proportion of the eggs falling into the following size categories:

Size Category	Ounces/Dozen
Pee Wee	< 18
Small	18 - 21
Medium	21 - 23
Large	23 - 27
Extra Large	< 27

D. Egg Quality:

Grade Information: The average grade of eggs according to USDA grading standards.

Blood Spots: The percentage of blood spots in excess of 1/8 inch diameter, detected in broken out eggs.

Meat Spots: The percentage of meat spots in excess of 1/8 inch diameter, detected in broken out eggs.

Tables 97-102 list average hen day egg production of entries by two week periods from 20 to 104 weeks of age (excluding 64-67 weeks, molt period).

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39	C	Cage type, entry, HR housing	(435-728 days)
40	D	Cage type, entry, HR housing	(435-728 days)
41	A	Cage type, entry, LAC housing	(435-728 days)
42	B	Cage type, entry, LAC housing	(435-728 days)
43	C	Cage type, entry, LAC housing	(435-728 days)
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47	C	Birds per cage, entry, FL housing	(435-728 days)
48	D	Birds per cage, entry, FL housing	(435-728 days)
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50	B	Birds per cage, entry, HR housing	(435-728 days)
51	C	Birds per cage, entry, HR housing	(435-728 days)
52	D	Birds per cage, entry, HR housing	(435-728 days)
53	A	Birds per cage, entry, LAC housing	(435-728 days)
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70	B	Cage type, entry, HR housing	(140-728 days)
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72	D	Cage type, entry, HR housing	(140-728 days)
73	A	Cage type, entry, LAC housing	(140-728 days)
74	B	Cage type, entry, LAC housing	(140-728 days)
75	C	Cage type, entry, LAC housing	(140-728 days)
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78	B	Birds per cage, entry, FL housing	(140-728 days)
79	C	Birds per cage, entry, FL housing	(140-728 days)
80	D	Birds per cage, entry, FL housing	(140-728 days)
81	A	Birds per cage, entry, HR housing	(140-728 days)
82	B	Birds per cage, entry, HR housing	(140-728 days)
83	C	Birds per cage, entry, HR housing	(140-728 days)
84	D	Birds per cage, entry, HR housing	(140-728 days)
85	A	Birds per cage, entry, LAC housing	(140-728 days)
86	B	Birds per cage, entry, LAC housing	(140-728 days)
87	C	Birds per cage, entry, LAC housing	(140-728 days)
88	D	Birds per cage, entry, LAC housing	(140-728 days)
89	A	Birds per cage, entry, shallow cages	(140-728 days)
90	B	Birds per cage, entry, shallow cages	(140-728 days)
91	C	Birds per cage, entry, shallow cages	(140-728 days)
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TABLE 1. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN FLUSH
WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	73.6	77.3	217.5	23.9	2.36	8.7
	D	76.4	78.0	223.7	23.0	2.33	4.2
ISA-BABCOCK (B300)	S	73.5	73.9	215.9	23.7	2.42	2.5
	D	70.8	72.1	207.4	22.8	2.46	7.1
HISEX (WHITE)	S	76.3	79.5	223.0	24.3	2.36	7.1
	D	75.9	79.3	222.6	24.1	2.33	6.7
H & N (NICK CHICK)	S	78.0	81.5	228.5	24.2	2.33	8.8
	D	74.0	78.4	217.5	24.5	2.39	12.6
HUBBARD (LEGHORN)	S	77.0	78.9	225.8	24.9	2.39	6.1
	D	75.6	76.1	222.2	24.1	2.44	3.3
HYLINE (W-36)	S	74.6	77.3	219.4	23.7	2.37	9.6
	D	71.1	75.0	210.5	21.8	2.31	12.1
COLONIAL (365-S)	S	70.9	73.7	206.4	20.3	2.19	5.4
	D	70.0	70.8	204.9	20.0	2.23	5.8
SHAVER (288-A)	S	75.1	77.3	219.7	22.8	2.32	7.1
	D	73.1	76.1	215.4	22.9	2.36	7.9
WHITE EGG AVERAGE	S	74.9	77.4	219.4	23.5	2.34	6.9
	D	73.4	75.7	215.5	22.9	2.35	7.5

BROWN EGG LAYERS							
HISEX (BROWN)	S	71.9	73.0	211.1	25.0	2.40	4.2
	D	69.9	70.8	204.6	24.8	2.48	4.6
HUBBARD (GOLDEN COMET)	S	69.1	72.6	202.7	24.3	2.39	10.0
	D	68.0	71.7	198.5	24.7	2.46	12.5
DEKALB (SEX-SAL-LINK-G)	S	62.7	64.8	184.1	24.0	2.59	7.9
	D	65.6	68.3	191.1	24.9	2.52	12.1
BROWN EGG AVERAGE	S	67.9	70.1	199.3	24.4	2.46	7.4
	D	67.8	70.3	198.1	24.8	2.49	9.7

TABLE 2. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	25.1	46.5	44.2	2.6	78.1
	D	24.2	45.2	44.3	2.4	79.5
ISA-BABCOCK (B300)	S	25.2	44.7	44.5	3.2	81.0
	D	24.4	42.2	41.4	3.4	81.1
HISEX (WHITE)	S	24.5	46.6	44.6	2.6	77.8
	D	24.9	47.2	45.1	2.7	78.6
H & N (NICK CHICK)	S	24.3	47.5	45.5	3.1	80.0
	D	25.0	46.8	44.1	3.0	79.5
HUBBARD (LEGHORN)	S	25.1	47.6	46.4	2.5	81.0
	D	24.6	45.0	44.7	2.4	80.6
HYLINE (W-36)	S	24.6	46.0	44.4	2.4	77.6
	D	24.3	44.0	41.6	2.4	75.1
COLONIAL (365-S)	S	24.1	42.3	40.7	2.7	76.6
	D	24.0	40.5	40.0	2.4	78.7
SHAVER (288-A)	S	24.4	45.4	44.0	2.7	80.9
	D	24.4	44.8	43.0	2.8	79.0
WHITE EGG AVERAGE	S	24.7	45.8	44.3	2.7	79.1
	D	24.5	44.5	43.0	2.7	79.0

BROWN EGG LAYERS						
HISEX (BROWN)	S	27.1	47.6	46.8	2.2	81.3
	D	27.0	45.6	45.0	1.9	77.4
HUBBARD (GOLDEN COMET)	S	26.8	46.8	44.5	1.7	80.8
	D	26.6	45.9	43.4	1.2	81.6
DEKALB (SEX-SAL-LINK-G)	S	26.6	41.7	40.3	1.6	85.3
	D	27.3	44.7	42.8	1.4	82.8
BROWN EGG AVERAGE	S	26.9	45.4	43.9	1.9	82.5
	D	27.0	45.4	43.8	1.5	80.6

TABLE 3. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	1.7	12.7	8.9	35.8	40.8
	D	2.1	16.8	15.1	36.3	29.7
ISA-BABCOCK (B300)	S	2.1	13.4	8.3	33.8	42.3
	D	2.5	14.9	11.9	36.9	33.8
HISEX (WHITE)	S	1.9	15.1	11.8	39.6	31.6
	D	1.8	12.4	10.0	36.5	39.4
H & N (NICK CHICK)	S	2.1	14.4	12.8	40.1	30.6
	D	1.2	12.1	10.1	34.7	41.9
HUBBARD (LEGHORN)	S	0.7	13.5	9.7	33.4	42.8
	D	2.3	15.3	11.1	32.0	39.3
HYLINE (W-36)	S	2.0	16.1	12.9	34.8	34.2
	D	2.6	16.1	12.3	37.0	32.0
COLONIAL (365-S)	S	1.9	17.8	16.6	37.1	26.6
	D	1.7	18.6	16.1	37.9	25.7
SHAVER (288-A)	S	2.1	15.4	14.1	37.5	30.9
	D	2.6	14.5	11.5	38.2	33.3
WHITE EGG AVERAGE	S	1.8	14.8	11.9	36.5	35.0
	D	2.1	15.1	12.3	36.2	34.4

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.6	8.7	3.6	16.6	70.5
	D	0.5	7.8	4.7	19.9	67.1
HUBBARD (GOLDEN COMET)	S	0.6	10.7	4.0	17.3	67.4
	D	0.5	10.4	5.0	19.9	64.1
DEKALB (SEX-SAL-LINK-G)	S	0.1	8.8	5.5	20.7	65.0
	D	0.1	6.6	3.6	16.6	73.2
BROWN EGG AVERAGE	S	0.4	9.4	4.3	18.2	67.7
	D	0.4	8.3	4.4	18.8	68.1

TABLE 4. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB	S	94.8	1.7	2.9	0.6	2.0	0.0
(XL-LINK)	D	94.6	1.3	3.7	0.4	0.0	0.0
ISA-BABCOCK	S	97.4	0.6	1.5	0.6	1.7	0.0
(B300)	D	95.8	1.7	1.9	0.5	0.0	0.0
HISEX	S	93.9	0.6	4.8	0.6	3.6	0.0
(WHITE)	D	88.3	4.0	6.8	0.9	0.0	0.0
H & N	S	96.3	1.3	2.1	0.3	0.0	0.0
(NICK CHICK)	D	95.0	3.4	1.6	0.0	2.0	0.0
HUBBARD	S	95.7	0.8	3.3	0.2	1.7	0.0
(LEGHORN)	D	95.3	0.6	4.1	0.0	1.9	0.0
HYLINE	S	95.4	1.3	3.1	0.2	0.0	0.0
(W-36)	D	93.2	1.3	5.5	0.0	0.0	0.0
COLONIAL	S	96.6	0.9	2.5	0.0	2.0	0.0
(365-S)	D	95.9	1.6	2.5	0.0	0.0	0.0
SHAVER	S	96.9	1.3	1.7	0.0	0.0	0.0
(288-A)	D	95.5	0.6	3.9	0.0	0.0	0.0
WHITE EGG	S	95.9	1.1	2.7	0.3	1.4	0.0
AVERAGE	D	94.2	1.8	3.8	0.2	0.5	0.0

BROWN EGG LAYERS							
HISEX	S	92.3	1.3	6.4	0.0	0.0	16.0
(BROWN)	D	90.1	2.7	7.1	0.0	0.0	20.8
HUBBARD	S	96.2	0.5	3.0	0.2	1.9	8.6
(GOLDEN COMET)	D	96.0	0.9	3.1	0.0	0.0	15.5
DEKALB	S	95.7	0.7	3.3	0.2	2.3	13.1
(SEX-SAL-LINK-G)	D	91.7	1.2	6.3	0.8	1.7	11.9
BROWN EGG	S	94.7	0.8	4.3	0.2	1.4	12.6
AVERAGE	D	92.6	1.6	5.5	0.3	0.6	16.1

TABLE 5. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	79.1	81.5	232.0	25.3	2.38	4.6
	D	72.8	79.3	211.3	24.3	2.39	15.8
ISA-BABCOCK (B300)	S	72.5	73.8	212.4	23.0	2.40	2.5
	D	74.3	74.3	217.9	23.5	2.47	0.0
HISEX (WHITE)	S	73.4	78.2	214.2	23.8	2.34	12.5
	D	72.9	73.9	213.2	23.9	2.47	5.0
H & N (NICK CHICK)	S	77.3	79.5	226.9	24.8	2.44	7.9
	D	77.1	79.8	225.0	24.5	2.39	6.0
HUBBARD (LEGHORN)	S	75.3	76.4	220.8	25.1	2.51	4.6
	D	70.6	73.1	206.7	24.8	2.61	5.4
HYLINE (W-36)	S	75.0	77.3	218.9	22.9	2.34	9.2
	D	72.7	76.8	214.3	23.1	2.35	10.4
COLONIAL (365-S)	S	68.4	70.5	197.3	19.9	2.27	9.4
	D	68.3	71.5	198.6	20.0	2.21	8.7
SHAVER (288-A)	S	72.4	74.9	213.7	23.9	2.45	5.4
	D	72.3	74.8	212.1	24.1	2.51	5.8
WHITE EGG AVERAGE	S	74.2	76.5	216.9	23.6	2.39	7.0
	D	72.6	75.5	212.2	23.5	2.42	7.2

BROWN EGG LAYERS							
HISEX (BROWN)	S	70.0	73.7	206.1	26.6	2.54	12.5
	D	63.3	68.9	184.3	24.9	2.52	15.8
HUBBARD (GOLDEN COMET)	S	72.4	75.3	212.3	26.0	2.46	9.2
	D	67.7	72.8	199.4	25.4	2.55	14.2
DEKALB (SEX-SAL-LINK-G)	S	65.8	68.2	191.7	26.5	2.71	7.9
	D	64.3	66.6	186.3	25.0	2.67	7.9
BROWN EGG AVERAGE	S	69.4	72.4	203.4	26.4	2.57	9.9
	D	65.1	69.4	190.0	25.1	2.57	12.6

TABLE 6. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	24.9	48.7	47.3	2.6	79.2
	D	24.7	47.0	43.1	2.5	84.2
ISA-BABCOCK (B300)	S	24.9	44.1	43.3	4.1	80.9
	D	24.5	43.8	43.8	3.5	84.0
HISEX (WHITE)	S	24.9	46.3	43.4	2.9	80.5
	D	24.9	44.0	43.3	3.3	81.9
H & N (NICK CHICK)	S	24.7	47.0	45.7	3.5	84.3
	D	24.6	47.0	45.4	3.0	81.8
HUBBARD (LEGHORN)	S	24.9	45.7	45.0	2.6	81.6
	D	25.1	44.2	42.6	2.9	82.1
HYLINE (W-36)	S	24.4	45.3	43.8	2.5	79.8
	D	24.5	45.2	42.7	2.3	76.2
COLONIAL (365-S)	S	23.7	40.2	38.9	3.2	80.7
	D	23.9	40.9	39.0	3.4	80.0
SHAVER (288-A)	S	24.9	44.7	43.2	3.3	77.6
	D	24.8	44.5	43.0	3.1	82.9
WHITE EGG AVERAGE	S	24.6	45.3	43.8	3.1	80.6
	D	24.6	44.6	42.9	3.0	81.6

BROWN EGG LAYERS						
HISEX (BROWN)	S	27.1	48.0	45.6	2.2	80.5
	D	27.7	46.2	42.3	2.3	83.3
HUBBARD (GOLDEN COMET)	S	26.9	48.3	46.5	2.0	81.8
	D	26.3	45.9	42.6	2.1	83.2
DEKALB (SEX-SAL-LINK-G)	S	27.4	44.8	43.2	1.6	85.3
	D	26.8	43.2	41.8	1.9	86.0
BROWN EGG AVERAGE	S	27.1	47.0	45.1	1.9	82.5
	D	26.9	45.1	42.2	2.1	84.2

TABLE 7. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	1.3	13.4	9.0	34.3	42.0
	D	1.3	14.4	11.4	38.6	34.4
ISA-BABCOCK (B300)	S	1.7	14.7	8.5	30.6	44.5
	D	2.9	13.5	9.8	33.5	40.2
HISEX (WHITE)	S	1.9	13.1	10.2	34.7	40.1
	D	2.1	13.7	9.6	33.4	41.2
H & N (NICK CHICK)	S	1.6	14.4	8.9	38.5	36.5
	D	1.4	15.0	12.4	36.4	34.7
HUBBARD (LEGHORN)	S	2.0	13.4	7.5	36.0	41.0
	D	2.2	13.1	8.9	29.8	46.0
HYLINE (W-36)	S	1.2	15.7	14.2	34.7	34.2
	D	1.5	16.3	11.6	35.1	35.5
COLONIAL (365-S)	S	2.8	22.5	17.5	32.8	24.4
	D	1.3	19.4	17.3	36.8	25.2
SHAVER (288-A)	S	1.4	13.5	7.9	35.6	41.6
	D	1.5	13.7	10.8	35.9	38.1
WHITE EGG AVERAGE	S	1.8	15.1	10.5	34.7	38.0
	D	1.8	14.9	11.5	34.9	36.9

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.4	8.2	3.4	19.7	68.3
	D	0.0	5.6	5.3	14.5	74.5
HUBBARD (GOLDEN COMET)	S	0.4	9.0	4.3	16.5	69.7
	D	0.7	9.9	4.6	23.3	61.5
DEKALB (SEX-SAL-LINK-G)	S	0.0	5.8	3.0	16.3	75.0
	D	1.8	6.8	5.1	18.0	68.2
BROWN EGG AVERAGE	S	0.3	7.7	3.6	17.5	70.9
	D	0.8	7.5	5.0	18.6	68.1

TABLE 8. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	94.1	1.6	4.0	0.3	0.0	0.0
	D	94.3	1.7	3.8	0.2	0.0	0.0
ISA-BABCOCK (B300)	S	96.8	1.5	1.7	0.0	0.0	0.0
	D	92.3	3.2	3.9	0.6	0.0	0.0
HISEX (WHITE)	S	92.6	2.0	5.2	0.2	1.7	0.0
	D	94.7	3.1	2.0	0.2	0.0	0.0
H & N (NICK CHICK)	S	95.5	2.5	2.0	0.0	0.0	0.0
	D	95.5	2.0	2.3	0.2	0.0	0.0
HUBBARD (LEGHORN)	S	96.8	1.2	1.6	0.4	1.9	0.0
	D	95.3	1.2	2.6	0.8	0.0	0.0
HYLINE (W-36)	S	96.6	1.3	2.1	0.0	0.0	0.0
	D	94.8	2.9	2.1	0.2	0.0	0.0
COLONIAL (365-S)	S	95.6	1.6	2.4	0.4	0.0	0.0
	D	95.5	2.1	2.4	0.0	1.7	0.0
SHAVER (288-A)	S	95.9	1.4	2.5	0.1	0.0	0.0
	D	97.8	1.0	0.9	0.3	1.7	0.0
WHITE EGG AVERAGE	S	95.5	1.6	2.7	0.2	0.4	0.0
	D	95.0	2.1	2.5	0.3	0.4	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	S	95.9	1.0	2.9	0.2	3.3	7.3
	D	95.0	1.2	3.6	0.2	0.0	3.7
HUBBARD (GOLDEN COMET)	S	95.9	1.3	2.3	0.5	0.0	11.0
	D	98.0	0.5	1.5	0.0	3.6	6.7
DEKALB (SEX-SAL-LINK-G)	S	98.1	0.3	1.6	0.0	0.0	2.2
	D	95.5	1.3	3.0	0.2	4.3	10.8
BROWN EGG AVERAGE	S	96.6	0.9	2.3	0.2	1.1	6.8
	D	96.2	1.0	2.7	0.1	2.6	7.0

TABLE 9. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	76.5	79.9	223.3	23.6	2.40	6.2
	D	73.7	79.9	216.6	23.8	2.40	15.0
ISA-BABCOCK (B300)	S	70.1	73.3	204.7	23.2	2.52	10.8
	D	69.0	73.1	203.0	22.7	2.48	12.5
HISEX (WHITE)	S	79.5	80.8	233.1	22.7	2.25	6.7
	D	79.5	80.0	232.7	22.4	2.27	3.7
H & N (NICK CHICK)	S	72.6	78.0	211.2	22.4	2.34	11.6
	D	70.1	74.7	203.2	23.0	2.51	10.4
HUBBARD (LEGHORN)	S	79.4	81.3	232.5	24.9	2.41	4.9
	D	81.8	82.0	240.5	24.7	2.40	1.6
HYLINE (W-36)	S	76.9	78.3	225.9	21.8	2.27	2.9
	D	76.0	77.5	221.6	21.6	2.29	3.7
COLONIAL (365-S)	S	65.4	69.8	192.5	18.7	2.26	10.4
	D	71.0	72.6	209.0	19.2	2.22	5.8
SHAVER (288-A)	S	73.6	75.5	216.0	21.8	2.37	5.8
	D	76.1	77.7	222.5	22.7	2.40	3.7
WHITE EGG AVERAGE	S	74.3	77.1	217.2	22.4	2.35	7.4
	D	74.6	77.2	218.6	22.5	2.37	7.1

BROWN EGG LAYERS							
HISEX (BROWN)	S	69.9	73.3	204.5	25.3	2.61	13.3
	D	64.4	68.3	188.4	24.2	2.63	16.2
HUBBARD (GOLDEN COMET)	S	68.3	73.1	199.0	24.7	2.52	17.5
	D	70.5	72.3	206.1	25.2	2.63	8.7
DEKALB (SEX-SAL-LINK-G)	S	68.1	72.2	198.8	25.3	2.69	10.8
	D	66.6	70.0	193.8	25.5	2.70	12.9
BROWN EGG AVERAGE	S	68.8	72.9	200.8	25.1	2.61	13.9
	D	67.2	70.2	196.1	25.0	2.65	12.6

TABLE 10. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	23.6	45.4	43.4	2.1	81.9
	D	23.7	45.6	42.0	1.9	81.8
ISA-BABCOCK (B300)	S	24.1	42.3	40.4	3.3	81.4
	D	24.0	42.1	39.6	3.0	81.1
HISEX (WHITE)	S	24.0	46.2	45.4	2.8	78.9
	D	23.7	45.0	44.6	2.6	79.7
H & N (NICK CHICK)	S	23.6	44.0	40.9	3.3	81.6
	D	23.7	42.3	39.7	2.7	81.1
HUBBARD (LEGHORN)	S	24.3	47.4	46.3	2.2	83.8
	D	24.1	47.3	47.2	2.4	80.2
HYLINE (W-36)	S	23.6	44.2	43.4	2.3	81.1
	D	23.4	43.5	42.6	2.0	79.8
COLONIAL (365-S)	S	22.8	37.8	35.3	2.7	81.2
	D	22.8	39.3	38.4	2.4	78.6
SHAVER (288-A)	S	23.5	42.3	41.2	2.1	77.4
	D	23.4	43.5	42.6	2.6	80.3
WHITE EGG AVERAGE	S	23.7	43.7	42.0	2.6	80.9
	D	23.6	43.6	42.1	2.4	80.3

BROWN EGG LAYERS						
HISEX (BROWN)	S	25.4	44.4	42.3	1.8	80.6
	D	25.9	42.3	39.8	1.6	81.1
HUBBARD (GOLDEN COMET)	S	25.7	44.8	41.8	1.6	81.8
	D	25.4	43.9	42.7	1.6	82.2
DEKALB (SEX-SAL-LINK-G)	S	24.9	43.1	40.6	1.1	82.2
	D	25.3	42.7	40.6	1.5	81.7
BROWN EGG AVERAGE	S	25.3	44.1	41.6	1.5	81.5
	D	25.5	43.0	41.0	1.6	81.7

TABLE 11. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	2.3	20.7	20.4	31.8	24.8
	D	3.4	17.7	19.1	35.8	24.0
ISA-BABCOCK (B300)	S	3.4	16.5	11.5	37.4	31.2
	D	3.8	16.4	14.2	34.3	31.3
HISEX (WHITE)	S	2.8	17.3	15.3	37.0	27.6
	D	3.0	18.0	17.2	41.5	20.4
H & N (NICK CHICK)	S	2.5	19.3	18.5	37.8	21.9
	D	3.1	21.9	15.5	35.5	24.0
HUBBARD (LEGHORN)	S	1.8	14.8	12.6	39.5	31.4
	D	2.5	15.6	15.1	36.9	29.9
HYLINE (W-36)	S	1.4	21.3	20.6	34.1	22.7
	D	2.4	21.7	18.1	36.1	21.7
COLONIAL (365-S)	S	4.2	25.4	24.1	30.4	15.8
	D	4.8	25.6	23.4	31.3	14.9
SHAVER (288-A)	S	3.1	18.0	26.2	33.2	19.5
	D	3.0	19.2	21.0	37.0	19.8
WHITE EGG AVERAGE	S	2.7	19.2	18.7	35.1	24.4
	D	3.2	19.5	17.9	36.1	23.2

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.5	11.3	8.7	31.5	47.9
	D	0.4	10.7	6.7	25.0	57.2
HUBBARD (GOLDEN COMET)	S	0.5	12.4	8.9	25.8	52.4
	D	1.0	12.2	8.2	29.6	49.0
DEKALB (SEX-SAL-LINK-G)	S	1.7	11.7	11.0	30.3	45.3
	D	1.4	11.0	9.8	28.7	49.0
BROWN EGG AVERAGE	S	0.9	11.8	9.5	29.2	48.5
	D	0.9	11.3	8.2	27.8	51.8

TABLE 12. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	95.1	1.2	2.7	1.0	0.0	0.0
	D	96.0	1.2	2.8	0.0	0.0	0.0
ISA-BABCOCK (B300)	S	96.8	0.4	2.8	0.0	0.0	0.0
	D	97.3	1.0	1.7	0.0	0.0	0.0
HISEX (WHITE)	S	94.9	0.7	4.2	0.2	0.0	0.0
	D	92.2	1.8	5.6	0.4	4.2	0.0
H & N (NICK CHICK)	S	96.6	0.7	2.6	0.0	2.1	0.0
	D	97.6	1.3	1.1	0.0	0.0	0.0
HUBBARD (LEGHORN)	S	95.4	0.4	3.5	0.7	4.2	0.0
	D	96.6	1.5	1.4	0.5	3.6	0.0
HYLINE (W-36)	S	96.2	0.6	2.9	0.2	0.0	0.0
	D	97.9	1.1	1.0	0.0	0.0	0.0
COLONIAL (365-S)	S	96.5	0.9	2.3	0.3	0.0	0.0
	D	96.5	2.0	1.0	0.6	1.7	0.0
SHAVER (288-A)	S	96.2	0.8	2.7	0.2	0.0	0.0
	D	96.6	1.1	2.0	0.2	3.3	0.0
WHITE EGG AVERAGE	S	96.0	0.7	3.0	0.3	0.8	0.0
	D	96.3	1.4	2.1	0.2	1.6	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	S	96.5	0.6	2.5	0.4	2.0	5.3
	D	94.8	1.9	2.7	0.6	3.7	7.4
HUBBARD (GOLDEN COMET)	S	95.9	0.2	3.9	0.0	0.0	8.5
	D	95.8	0.4	3.0	0.8	2.1	11.4
DEKALB (SEX-SAL-LINK-G)	S	97.7	0.3	2.1	0.0	0.0	0.0
	D	95.3	0.9	3.3	0.4	3.4	21.6
BROWN EGG AVERAGE	S	96.7	0.4	2.8	0.1	0.7	4.6
	D	95.3	1.1	3.0	0.6	3.1	13.5

TABLE 13. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	74.9	77.3	220.2	23.4	2.35	6.7
	4	75.1	78.0	220.8	23.5	2.34	6.2
ISA-BABCOCK (B300)	3	73.1	73.2	214.9	23.8	2.47	3.3
	4	71.2	72.8	209.3	22.7	2.41	6.2
HISEX (WHITE)	3	78.1	80.8	229.8	25.0	2.36	5.0
	4	74.0	78.0	217.5	23.5	2.32	8.7
H & N (NICK CHICK)	3	78.4	80.1	230.6	24.4	2.34	5.6
	4	73.6	79.7	217.4	24.3	2.38	15.9
HUBBARD (LEGHORN)	3	78.5	79.6	230.9	25.0	2.36	5.0
	4	74.1	75.4	217.9	24.0	2.47	4.4
HYLINE (W-36)	3	71.1	76.4	209.1	23.0	2.35	16.7
	4	74.6	75.9	219.3	22.5	2.33	5.0
COLONIAL (365-S)	3	73.5	74.7	216.9	20.8	2.23	3.7
	4	67.4	69.9	198.1	19.4	2.19	7.5
SHAVER (288-A)	3	75.2	78.8	221.1	22.8	2.30	10.0
	4	73.1	74.7	214.8	22.9	2.39	5.0
WHITE EGG AVERAGE	3	75.4	77.6	221.6	23.5	2.34	7.0
	4	72.9	75.6	214.2	22.8	2.35	7.4

BROWN EGG LAYERS							
HISEX (BROWN)	3	72.6	73.4	213.3	25.4	2.43	5.0
	4	69.3	70.4	203.8	24.4	2.45	3.7
HUBBARD (GOLDEN COMET)	3	70.6	74.2	207.4	25.1	2.40	10.0
	4	66.5	70.1	195.4	23.9	2.45	12.5
DEKALB (SEX-SAL-LINK-G)	3	66.6	67.5	195.7	24.9	2.60	5.0
	4	61.7	65.7	181.5	24.0	2.51	15.0
BROWN EGG AVERAGE	3	69.9	71.7	205.5	25.2	2.47	6.7
	4	65.8	68.7	193.6	24.1	2.47	10.4

TABLE 14. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	24.6	45.7	44.2	2.6	79.3
	4	24.6	46.1	44.3	2.4	78.3
ISA-BABCOCK (B300)	3	25.1	44.2	44.1	3.3	80.9
	4	24.5	42.8	41.8	3.3	81.3
HISEX (WHITE)	3	24.9	47.9	46.3	2.7	77.9
	4	24.6	45.9	43.4	2.6	78.5
H & N (NICK CHICK)	3	24.8	47.7	46.7	3.2	78.9
	4	24.5	46.6	42.9	2.9	80.6
HUBBARD (LEGHORN)	3	25.3	48.3	47.6	2.3	81.0
	4	24.4	44.4	43.5	2.6	80.6
HYLINE (W-36)	3	24.5	45.2	42.0	2.4	75.1
	4	24.4	44.9	44.1	2.3	77.6
COLONIAL (365-S)	3	23.9	42.6	41.9	2.6	77.0
	4	24.1	40.2	38.7	2.5	78.2
SHAVER (288-A)	3	24.2	45.8	43.7	2.8	79.6
	4	24.5	44.3	43.3	2.7	80.3
WHITE EGG AVERAGE	3	24.7	45.9	44.6	2.7	78.7
	4	24.5	44.4	42.8	2.7	79.4

BROWN EGG LAYERS						
HISEX (BROWN)	3	27.1	47.6	47.0	1.9	78.4
	4	27.0	45.6	44.8	2.1	80.2
HUBBARD (GOLDEN COMET)	3	27.1	48.2	45.8	1.4	79.4
	4	26.4	44.5	42.1	1.6	82.9
DEKALB (SEX-SAL-LINK-G)	3	26.7	43.7	43.1	1.7	84.5
	4	27.3	42.8	40.1	1.3	83.7
BROWN EGG AVERAGE	3	27.0	46.5	45.3	1.7	80.8
	4	26.9	44.3	42.4	1.7	82.3

TABLE 15. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	2.2	13.0	10.1	40.9	33.8
	4	1.6	16.6	13.8	31.3	36.7
ISA-BABCOCK (B300)	3	2.0	13.7	9.9	34.2	40.3
	4	2.7	14.7	10.3	36.5	35.9
HISEX (WHITE)	3	1.5	13.6	10.8	36.6	37.5
	4	2.1	13.9	11.0	39.6	33.4
H & N (NICK CHICK)	3	2.2	12.4	11.8	34.9	38.8
	4	1.1	14.1	11.2	40.0	33.6
HUBBARD (LEGHORN)	3	1.3	12.6	6.8	30.6	48.7
	4	1.7	16.2	13.9	34.8	33.3
HYLINE (W-36)	3	3.4	15.2	12.0	33.8	35.6
	4	1.2	17.0	13.2	38.0	30.6
COLONIAL (365-S)	3	1.5	18.0	16.7	38.6	25.2
	4	2.1	18.5	16.0	36.4	27.1
SHAVER (288-A)	3	2.2	16.3	14.4	38.7	28.5
	4	2.6	13.6	11.1	37.0	35.7
WHITE EGG AVERAGE	3	2.0	14.3	11.6	36.0	36.1
	4	1.9	15.6	12.6	36.7	33.3

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.7	8.4	4.4	17.6	68.8
	4	0.5	8.0	3.9	18.9	68.7
HUBBARD (GOLDEN COMET)	3	0.4	10.4	3.6	15.9	69.7
	4	0.7	10.7	5.4	21.3	61.8
DEKALB (SEX-SAL-LINK-G)	3	0.1	9.7	4.8	18.1	67.3
	4	0.1	5.5	4.3	19.1	71.0
BROWN EGG AVERAGE	3	0.4	9.5	4.2	17.2	68.6
	4	0.4	8.1	4.6	19.8	67.1

TABLE 16. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	94.9	1.5	3.2	0.4	2.0	0.0
	4	94.5	1.5	3.4	0.6	0.0	0.0
ISA-BABCOCK (B300)	3	97.1	0.9	0.9	1.1	1.7	0.0
	4	96.1	1.4	2.5	0.0	0.0	0.0
HISEX (WHITE)	3	91.3	2.8	4.9	1.0	1.9	0.0
	4	90.9	1.8	6.7	0.6	1.7	0.0
H & N (NICK CHICK)	3	96.2	2.1	1.4	0.3	0.0	0.0
	4	95.2	2.5	2.3	0.0	2.0	0.0
HUBBARD (LEGHORN)	3	94.7	0.7	4.5	0.0	1.9	0.0
	4	96.3	0.6	2.9	0.2	1.7	0.0
HYLINE (W-36)	3	94.1	1.4	4.6	0.0	0.0	0.0
	4	94.5	1.2	4.0	0.2	0.0	0.0
COLONIAL (365-S)	3	96.6	0.8	2.6	0.0	2.0	0.0
	4	96.0	1.7	2.4	0.0	0.0	0.0
SHAVER (288-A)	3	97.0	1.1	1.8	0.0	0.0	0.0
	4	95.4	0.8	3.8	0.0	0.0	0.0
WHITE EGG AVERAGE	3	95.2	1.4	3.0	0.3	1.2	0.0
	4	94.9	1.4	3.5	0.2	0.7	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	3	91.2	1.9	6.8	0.0	0.0	18.5
	4	91.2	2.1	6.7	0.0	0.0	18.3
HUBBARD (GOLDEN COMET)	3	96.5	0.5	2.8	0.2	1.9	9.1
	4	95.8	0.9	3.3	0.0	0.0	15.0
DEKALB (SEX-SAL-LINK-G)	3	93.5	0.8	5.1	0.5	2.3	13.2
	4	93.8	1.2	4.6	0.5	1.7	11.8
BROWN EGG AVERAGE	3	93.7	1.1	4.9	0.3	1.4	13.6
	4	93.6	1.4	4.9	0.2	0.6	15.0

TABLE 17. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	80.1	83.6	235.5	25.2	2.32	6.7
	4	71.9	77.2	211.3	24.4	2.45	13.7
ISA-BABCOCK (B300)	3	75.0	75.0	220.5	23.6	2.42	0.0
	4	71.8	73.1	211.1	22.9	2.45	2.5
HISEX (WHITE)	3	76.3	77.9	224.4	24.1	2.38	5.0
	4	69.9	74.2	205.6	23.5	2.42	12.5
H & N (NICK CHICK)	3	79.4	81.7	233.6	24.9	2.37	5.6
	4	74.9	77.6	220.3	24.5	2.46	8.3
HUBBARD (LEGHORN)	3	74.5	75.8	218.7	25.3	2.54	3.5
	4	71.4	73.7	209.4	24.6	2.58	6.5
HYLINE (W-36)	3	74.9	78.3	220.1	23.4	2.35	8.3
	4	72.8	75.8	213.9	22.6	2.34	11.2
COLONIAL (365-S)	3	74.4	74.4	218.7	20.5	2.20	1.9
	4	62.3	67.6	183.2	19.4	2.28	16.2
SHAVER (288-A)	3	72.1	74.8	212.1	23.9	2.48	5.0
	4	72.6	74.9	213.5	24.1	2.47	6.2
WHITE EGG AVERAGE	3	75.8	77.7	222.9	23.9	2.38	4.5
	4	70.9	74.3	208.4	23.2	2.43	9.7

BROWN EGG LAYERS							
HISEX (BROWN)	3	70.3	75.1	208.7	26.3	2.45	13.3
	4	63.0	67.6	185.1	25.1	2.61	15.0
HUBBARD (GOLDEN COMET)	3	70.4	75.5	206.8	26.4	2.50	13.3
	4	69.8	72.5	205.1	25.1	2.51	10.0
DEKALB (SEX-SAL-LINK-G)	3	70.7	71.0	207.7	26.2	2.64	3.3
	4	59.5	63.7	174.9	25.3	2.74	12.5
BROWN EGG AVERAGE	3	70.4	73.9	207.8	26.3	2.53	10.0
	4	64.1	67.9	188.4	25.2	2.61	12.5

TABLE 18. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	24.9	49.9	47.8	2.5	83.1
	4	24.7	45.8	42.6	2.6	80.2
ISA-BABCOCK (B300)	3	24.7	44.6	44.6	3.7	82.1
	4	24.7	43.3	42.6	3.8	82.8
HISEX (WHITE)	3	24.8	46.3	45.3	2.8	80.3
	4	24.9	44.0	41.4	3.3	82.1
H & N (NICK CHICK)	3	24.6	48.2	46.9	3.3	83.0
	4	24.6	45.8	44.2	3.2	83.0
HUBBARD (LEGHORN)	3	25.1	45.8	45.0	2.7	82.0
	4	24.8	44.1	42.6	2.7	81.6
HYLINE (W-36)	3	24.4	46.1	43.9	2.5	78.0
	4	24.5	44.5	42.6	2.3	78.0
COLONIAL (365-S)	3	23.7	42.3	42.3	3.0	81.4
	4	23.9	38.8	35.6	3.6	79.3
SHAVER (288-A)	3	24.7	44.4	42.8	3.0	81.0
	4	24.9	44.8	43.4	3.5	79.5
WHITE EGG AVERAGE	3	24.6	45.9	44.8	3.0	81.4
	4	24.6	43.9	41.9	3.2	80.8

BROWN EGG LAYERS						
HISEX (BROWN)	3	27.2	49.2	46.0	2.0	82.5
	4	27.6	45.0	41.8	2.5	81.3
HUBBARD (GOLDEN COMET)	3	26.8	48.2	44.9	1.9	83.1
	4	26.4	46.0	44.2	2.1	81.9
DEKALB (SEX-SAL-LINK-G)	3	27.0	46.4	46.1	1.7	85.3
	4	27.2	41.6	38.8	1.9	86.1
BROWN EGG AVERAGE	3	27.0	47.9	45.7	1.9	83.6
	4	27.1	44.2	41.6	2.2	83.1

TABLE 19. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	1.4	13.8	9.4	35.7	39.7
	4	1.2	14.0	11.0	37.2	36.7
ISA-BABCOCK (B300)	3	2.3	13.4	8.5	33.2	42.6
	4	2.4	14.8	9.8	30.9	42.1
HISEX (WHITE)	3	2.2	12.5	10.0	35.1	40.2
	4	1.8	14.3	9.8	33.0	41.1
H & N (NICK CHICK)	3	1.3	15.1	11.0	36.4	36.2
	4	1.7	14.3	10.4	38.5	35.1
HUBBARD (LEGHORN)	3	2.2	12.5	6.8	34.5	44.0
	4	2.1	14.0	9.6	31.3	43.0
HYLINE (W-36)	3	1.8	14.8	13.6	34.7	35.1
	4	0.9	17.2	12.2	35.1	34.6
COLONIAL (365-S)	3	2.3	20.6	18.7	35.1	23.3
	4	1.8	21.3	16.1	34.6	26.3
SHAVER (288-A)	3	1.4	13.9	9.1	36.6	39.0
	4	1.6	13.3	9.5	34.9	40.7
WHITE EGG AVERAGE	3	1.9	14.6	10.9	35.2	37.5
	4	1.7	15.4	11.0	34.4	37.5

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.4	7.2	4.4	18.0	70.0
	4	0.1	6.7	4.4	16.1	72.8
HUBBARD (GOLDEN COMET)	3	0.6	9.1	4.3	18.1	67.9
	4	0.5	9.9	4.6	21.7	63.3
DEKALB (SEX-SAL-LINK-G)	3	1.8	6.2	4.3	19.3	68.4
	4	0.0	6.4	3.8	15.0	74.8
BROWN EGG AVERAGE	3	0.9	7.5	4.3	18.5	68.8
	4	0.2	7.7	4.3	17.6	70.2

TABLE 20. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	93.3	2.4	3.9	0.4	0.0	0.0
	4	95.0	1.0	3.8	0.1	0.0	0.0
ISA-BABCOCK (B300)	3	96.2	1.5	2.2	0.2	0.0	0.0
	4	93.0	3.1	3.4	0.4	0.0	0.0
HISEX (WHITE)	3	92.8	2.3	4.7	0.2	0.0	0.0
	4	94.6	2.7	2.5	0.2	1.7	0.0
H & N (NICK CHICK)	3	94.9	2.2	2.9	0.0	0.0	0.0
	4	96.1	2.3	1.4	0.2	0.0	0.0
HUBBARD (LEGHORN)	3	95.2	1.9	2.2	0.7	1.9	0.0
	4	96.9	0.6	2.0	0.5	0.0	0.0
HYLINE (W-36)	3	95.1	2.1	2.8	0.0	0.0	0.0
	4	96.2	2.1	1.5	0.2	0.0	0.0
COLONIAL (365-S)	3	96.0	1.2	2.8	0.0	0.0	0.0
	4	95.1	2.5	2.0	0.4	1.7	0.0
SHAVER (288-A)	3	98.2	0.3	1.4	0.2	0.0	0.0
	4	95.6	2.1	2.0	0.3	1.7	0.0
WHITE EGG AVERAGE	3	95.2	1.7	2.9	0.2	0.2	0.0
	4	95.3	2.0	2.3	0.3	0.6	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	3	96.0	0.5	3.5	0.0	0.0	7.7
	4	95.0	1.6	3.0	0.4	3.3	3.3
HUBBARD (GOLDEN COMET)	3	97.3	0.5	1.9	0.3	1.9	6.0
	4	96.5	1.4	1.9	0.2	1.7	11.7
DEKALB (SEX-SAL-LINK-G)	3	97.0	0.9	2.1	0.0	2.1	4.3
	4	96.6	0.7	2.5	0.2	2.2	8.7
BROWN EGG AVERAGE	3	96.8	0.6	2.5	0.1	1.3	6.0
	4	96.1	1.2	2.5	0.3	2.4	7.9

TABLE 21. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	78.4	81.0	230.4	24.1	2.41	6.7
	4	71.8	78.8	211.4	23.3	2.39	14.6
ISA-BABCOCK (B300)	3	70.9	74.8	208.4	23.5	2.51	13.3
	4	68.2	71.6	200.4	22.5	2.50	10.0
HISEX (WHITE)	3	81.5	82.3	239.7	23.1	2.26	1.7
	4	77.5	78.5	227.8	22.0	2.26	8.7
H & N (NICK CHICK)	3	77.7	79.1	228.5	23.3	2.37	6.0
	4	65.1	73.5	191.6	22.1	2.47	16.0
HUBBARD (LEGHORN)	3	81.7	82.5	240.2	25.2	2.41	2.1
	4	79.6	80.8	233.7	24.3	2.40	4.3
HYLINE (W-36)	3	78.7	79.3	231.4	21.8	2.25	1.7
	4	74.2	76.5	218.0	21.7	2.32	5.0
COLONIAL (365-S)	3	67.8	71.7	199.5	19.5	2.27	10.0
	4	68.6	70.7	201.7	18.4	2.21	6.2
SHAVER (288-A)	3	76.9	77.8	226.0	22.6	2.40	3.3
	4	72.9	75.3	214.2	21.9	2.38	6.2
WHITE EGG AVERAGE	3	76.7	78.6	225.2	22.9	2.36	5.6
	4	72.2	75.7	212.4	22.0	2.36	8.9

BROWN EGG LAYERS							
HISEX (BROWN)	3	69.3	74.0	203.9	25.3	2.54	18.3
	4	64.9	67.5	190.9	24.2	2.70	11.2
HUBBARD (GOLDEN COMET)	3	72.9	73.7	214.3	25.4	2.54	5.0
	4	65.9	71.7	193.7	24.5	2.61	21.2
DEKALB (SEX-SAL-LINK-G)	3	71.7	73.7	210.7	25.6	2.63	5.0
	4	63.1	68.5	185.5	25.2	2.77	18.7
BROWN EGG AVERAGE	3	71.3	73.8	209.6	25.4	2.57	9.4
	4	64.6	69.2	190.0	24.6	2.69	17.1

TABLE 22. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	23.6	46.1	44.5	2.2	81.3
	4	23.7	44.9	40.8	1.9	82.4
ISA-BABCOCK (B300)	3	24.0	43.1	40.7	3.2	82.2
	4	24.1	41.3	39.3	3.1	80.3
HISEX (WHITE)	3	23.9	46.7	46.2	2.7	79.2
	4	23.8	44.4	43.8	2.7	79.3
H & N (NICK CHICK)	3	23.9	45.0	44.2	3.4	82.1
	4	23.4	41.3	36.4	2.7	80.6
HUBBARD (LEGHORN)	3	24.4	48.1	47.6	2.3	82.3
	4	24.1	46.6	45.9	2.3	81.7
HYLINE (W-36)	3	23.5	44.5	44.2	2.0	80.1
	4	23.5	43.2	41.9	2.2	80.9
COLONIAL (365-S)	3	23.0	39.2	37.0	2.5	79.4
	4	22.6	37.9	36.7	2.5	80.4
SHAVER (288-A)	3	23.4	43.4	42.9	2.5	78.3
	4	23.5	42.4	41.0	2.2	79.4
WHITE EGG AVERAGE	3	23.7	44.5	43.4	2.6	80.6
	4	23.6	42.8	40.7	2.5	80.6

BROWN EGG LAYERS						
HISEX (BROWN)	3	25.8	45.6	42.5	1.7	80.9
	4	25.6	41.2	39.6	1.7	80.8
HUBBARD (GOLDEN COMET)	3	26.0	45.9	45.4	1.7	82.6
	4	25.1	42.8	39.2	1.5	81.4
DEKALB (SEX-SAL-LINK-G)	3	25.2	45.0	43.7	1.2	81.5
	4	25.0	40.9	37.5	1.3	82.3
BROWN EGG AVERAGE	3	25.7	45.5	43.9	1.6	81.7
	4	25.2	41.6	38.8	1.5	81.5

TABLE 23. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	3.7	19.5	20.5	30.4	25.9
	4	1.9	18.9	19.1	37.2	22.9
ISA-BABCOCK (B300)	3	4.1	16.6	12.2	35.7	31.4
	4	3.1	16.4	13.5	36.0	31.1
HISEX (WHITE)	3	2.7	17.5	16.1	39.9	23.7
	4	3.0	17.8	16.4	38.5	24.2
H & N (NICK CHICK)	3	2.4	20.6	13.6	38.1	25.4
	4	3.2	20.5	20.5	35.2	20.5
HUBBARD (LEGHORN)	3	1.6	14.4	13.1	40.0	31.0
	4	2.7	16.0	14.6	36.4	30.3
HYLINE (W-36)	3	2.1	20.4	19.9	36.7	20.8
	4	1.7	22.6	18.7	33.4	23.6
COLONIAL (365-S)	3	4.3	23.8	23.1	32.6	16.3
	4	4.8	27.2	24.4	29.2	14.4
SHAVER (288-A)	3	3.1	19.3	23.0	34.7	19.9
	4	3.0	17.9	24.2	35.5	19.4
WHITE EGG AVERAGE	3	3.0	19.0	17.7	36.0	24.3
	4	2.9	19.7	18.9	35.2	23.3

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.3	10.3	6.9	25.6	57.0
	4	0.6	11.8	8.6	30.9	48.2
HUBBARD (GOLDEN COMET)	3	0.6	11.6	5.6	24.6	57.5
	4	0.9	13.0	11.5	30.8	43.9
DEKALB (SEX-SAL-LINK-G)	3	1.7	11.7	7.7	29.4	49.6
	4	1.4	10.9	13.3	29.7	44.7
BROWN EGG AVERAGE	3	0.9	11.2	6.7	26.5	54.7
	4	1.0	11.9	11.1	30.5	45.6

TABLE 24. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	96.3	1.1	1.7	0.8	0.0	0.0
	4	94.9	1.2	3.7	0.2	0.0	0.0
ISA-BABCOCK (B300)	3	98.2	0.5	1.3	0.0	0.0	0.0
	4	95.9	0.9	3.2	0.0	0.0	0.0
HISEX (WHITE)	3	93.0	1.1	5.8	0.2	4.2	0.0
	4	94.1	1.4	4.1	0.4	0.0	0.0
H & N (NICK CHICK)	3	97.6	0.5	1.9	0.0	2.1	0.0
	4	96.6	1.5	1.8	0.0	0.0	0.0
HUBBARD (LEGHORN)	3	96.6	0.5	2.2	0.7	4.4	0.0
	4	95.5	1.4	2.7	0.4	3.3	0.0
HYLINE (W-36)	3	98.4	0.8	0.8	0.0	0.0	0.0
	4	95.8	0.9	3.1	0.2	0.0	0.0
COLONIAL (365-S)	3	96.4	1.4	1.6	0.6	0.0	0.0
	4	96.6	1.6	1.6	0.2	1.7	0.0
SHAVER (288-A)	3	97.9	0.4	1.5	0.2	0.0	0.0
	4	95.0	1.6	3.3	0.2	3.3	0.0
WHITE EGG AVERAGE	3	96.8	0.8	2.1	0.3	1.3	0.0
	4	95.5	1.3	2.9	0.2	1.0	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	3	96.7	0.8	2.3	0.3	2.0	7.6
	4	94.6	1.8	2.9	0.7	3.7	5.2
HUBBARD (GOLDEN COMET)	3	97.1	0.2	2.7	0.0	2.1	8.1
	4	94.6	0.4	4.2	0.8	0.0	11.8
DEKALB (SEX-SAL-LINK-G)	3	96.2	1.2	2.1	0.4	0.0	13.0
	4	96.8	0.0	3.2	0.0	3.4	8.6
BROWN EGG AVERAGE	3	96.7	0.7	2.4	0.2	1.4	9.5
	4	95.3	0.7	3.4	0.5	2.4	8.5

TABLE 25. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	77.3	80.0	227.3	24.3	2.38	5.6
	4	75.5	79.1	221.9	24.2	2.38	7.5
ISA-BABCOCK (B300)	3	73.7	74.3	216.7	23.6	2.45	2.2
	4	70.3	73.1	206.7	23.0	2.44	8.3
HISEX (WHITE)	3	79.1	81.7	232.5	24.4	2.33	6.7
	4	73.7	77.2	216.6	22.8	2.30	10.8
H & N (NICK CHICK)	3	78.8	80.6	231.8	24.1	2.34	4.9
	4	73.1	78.7	215.0	23.5	2.39	13.9
HUBBARD (LEGHORN)	3	78.9	80.1	231.8	25.4	2.42	4.8
	4	75.6	77.7	222.1	24.5	2.46	5.6
HYLINE (W-36)	3	76.9	79.0	226.1	22.9	2.30	7.8
	4	74.1	76.3	217.9	22.6	2.35	6.7
COLONIAL (365-S)	3	71.9	74.7	211.1	20.6	2.24	6.8
	4	64.6	68.0	189.8	18.7	2.24	10.0
SHAVER (288-A)	3	74.5	76.3	219.0	22.7	2.38	5.6
	4	73.0	75.5	214.5	22.9	2.38	6.7
WHITE EGG AVERAGE	3	76.4	78.3	224.4	23.5	2.35	5.5
	4	72.5	75.7	212.9	22.8	2.37	8.7

BROWN EGG LAYERS							
HISEX (BROWN)	3	72.7	74.7	215.2	25.8	2.49	10.0
	4	68.5	72.0	201.3	25.4	2.54	10.0
HUBBARD (GOLDEN COMET)	3	72.2	74.6	212.3	25.7	2.48	7.8
	4	67.7	72.8	199.0	24.3	2.43	16.7
DEKALB (SEX-SAL-LINK-G)	3	68.6	69.3	201.6	25.6	2.71	4.4
	4	62.6	67.5	184.0	24.9	2.61	13.3
BROWN EGG AVERAGE	3	71.2	72.9	209.7	25.7	2.56	7.4
	4	66.2	70.7	194.7	24.9	2.52	13.3

TABLE 26. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	24.4	46.9	45.3	2.6	80.9
	4	24.7	46.9	44.7	2.3	78.5
ISA-BABCOCK (B300)	3	24.8	44.2	43.9	3.5	81.7
	4	24.6	43.2	41.5	3.6	80.5
HISEX (WHITE)	3	24.5	47.7	46.1	2.7	78.4
	4	24.5	45.0	42.8	2.9	79.7
H & N (NICK CHICK)	3	24.4	47.2	46.1	3.5	82.2
	4	24.0	45.2	41.9	3.1	81.7
HUBBARD (LEGHORN)	3	25.0	48.1	47.3	2.4	83.0
	4	24.5	45.7	44.4	2.5	81.2
HYLINE (W-36)	3	24.2	45.8	44.6	2.4	78.8
	4	24.2	44.5	43.2	2.4	80.2
COLONIAL (365-S)	3	23.5	42.0	40.4	2.9	80.4
	4	23.5	38.2	36.2	2.8	78.6
SHAVER (288-A)	3	24.0	44.0	42.9	2.6	78.2
	4	24.5	44.3	42.7	2.9	79.0
WHITE EGG AVERAGE	3	24.4	45.7	44.6	2.8	80.5
	4	24.3	44.1	42.2	2.8	79.9

BROWN EGG LAYERS						
HISEX (BROWN)	3	26.4	47.2	46.0	2.0	81.8
	4	26.7	46.1	43.8	2.1	79.9
HUBBARD (GOLDEN COMET)	3	26.8	47.8	46.2	1.7	81.4
	4	26.2	45.6	42.3	1.8	81.5
DEKALB (SEX-SAL-LINK-G)	3	26.3	43.9	43.4	1.6	83.9
	4	26.3	42.5	39.4	1.3	84.7
BROWN EGG AVERAGE	3	26.5	46.3	45.2	1.8	82.4
	4	26.4	44.7	41.8	1.7	82.0

TABLE 27. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	2.1	15.8	12.5	35.4	34.1
	4	1.4	15.4	13.0	32.5	37.6
ISA-BABCOCK (B300)	3	2.6	14.9	9.1	34.0	39.3
	4	2.2	14.9	9.7	33.8	39.4
HISEX (WHITE)	3	2.1	14.9	12.4	37.2	33.4
	4	2.3	15.4	12.5	37.0	32.7
H & N (NICK CHICK)	3	2.2	15.4	11.9	36.8	33.6
	4	1.9	16.7	14.9	40.7	25.7
HUBBARD (LEGHORN)	3	1.1	13.0	8.2	36.3	41.3
	4	1.9	14.8	11.6	36.2	35.5
HYLINE (W-36)	3	2.1	17.1	16.6	33.2	30.9
	4	0.9	18.3	15.2	35.8	29.8
COLONIAL (365-S)	3	2.9	20.4	20.1	35.0	21.6
	4	3.0	23.5	18.7	31.9	22.9
SHAVER (288-A)	3	2.7	16.3	16.5	36.7	27.9
	4	1.8	15.0	15.5	34.2	33.5
WHITE EGG AVERAGE	3	2.2	16.0	13.4	35.6	32.8
	4	1.9	16.7	13.9	35.3	32.1

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.5	9.8	5.5	23.1	61.0
	4	0.5	9.1	5.0	22.1	63.4
HUBBARD (GOLDEN COMET)	3	0.2	10.3	4.5	17.0	68.0
	4	0.8	11.1	7.0	22.8	58.4
DEKALB (SEX-SAL-LINK-G)	3	0.3	10.4	5.8	23.5	59.9
	4	0.9	7.1	7.3	21.6	63.1
BROWN EGG AVERAGE	3	0.4	10.2	5.3	21.2	63.0
	4	0.7	9.1	6.4	22.2	61.6

TABLE 28. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	95.2	1.4	2.8	0.7	1.3	0.0
	4	94.1	1.6	3.6	0.6	0.0	0.0
ISA-BABCOCK (B300)	3	97.5	0.5	1.7	0.4	1.1	0.0
	4	96.5	1.1	2.3	0.0	0.0	0.0
HISEX (WHITE)	3	92.6	0.8	6.1	0.5	1.2	0.0
	4	95.0	1.4	3.4	0.2	2.3	0.0
H & N (NICK CHICK)	3	96.5	1.3	2.0	0.2	1.4	0.0
	4	95.8	1.7	2.4	0.0	0.0	0.0
HUBBARD (LEGHORN)	3	95.5	1.1	2.9	0.5	2.9	0.0
	4	96.4	0.5	2.7	0.4	2.2	0.0
HYLINE (W-36)	3	96.5	1.0	2.5	0.0	0.0	0.0
	4	95.7	1.2	2.9	0.3	0.0	0.0
COLONIAL (365-S)	3	96.3	0.9	2.7	0.2	1.3	0.0
	4	96.2	1.4	2.1	0.2	0.0	0.0
SHAVER (288-A)	3	97.7	1.0	1.4	0.0	0.0	0.0
	4	95.1	1.4	3.3	0.2	0.0	0.0
WHITE EGG AVERAGE	3	96.0	1.0	2.8	0.3	1.2	0.0
	4	95.6	1.3	2.8	0.2	0.6	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	3	94.2	1.1	4.7	0.0	1.3	8.0
	4	95.7	0.8	3.1	0.4	2.2	11.1
HUBBARD (GOLDEN COMET)	3	96.2	0.3	3.1	0.3	1.3	6.5
	4	95.8	1.1	3.0	0.1	0.0	12.2
DEKALB (SEX-SAL-LINK-G)	3	98.1	0.5	1.4	0.0	1.5	9.0
	4	96.3	0.3	3.2	0.1	0.0	1.2
BROWN EGG AVERAGE	3	96.2	0.7	3.1	0.1	1.4	7.8
	4	95.9	0.7	3.1	0.2	0.7	8.2

TABLE 29. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	78.3	81.3	230.1	24.2	2.34	7.8
	4	70.4	76.9	206.7	23.2	2.40	15.6
ISA-BABCOCK (B300)	3	72.3	74.4	212.5	23.6	2.48	8.9
	4	70.4	71.9	207.1	22.4	2.46	4.2
HISEX (WHITE)	3	78.2	78.9	230.0	23.7	2.34	1.1
	4	74.0	76.6	217.4	23.2	2.36	9.2
H & N (NICK CHICK)	3	78.2	80.1	230.0	24.3	2.38	6.5
	4	69.3	75.2	203.9	23.7	2.48	12.9
HUBBARD (LEGHORN)	3	77.6	78.5	227.6	24.9	2.45	2.2
	4	74.5	75.6	217.6	24.1	2.51	4.7
HYLINE (W-36)	3	72.9	77.0	214.4	22.5	2.32	10.0
	4	73.6	75.9	216.3	21.9	2.30	7.5
COLONIAL (365-S)	3	71.9	72.6	211.7	20.0	2.22	3.6
	4	67.6	70.7	198.9	19.4	2.22	10.0
SHAVER (288-A)	3	75.0	77.9	220.5	23.5	2.39	6.7
	4	72.7	74.5	213.8	23.0	2.45	5.0
WHITE EGG AVERAGE	3	75.5	77.6	222.0	23.3	2.36	5.8
	4	71.6	74.7	210.3	22.6	2.39	8.6

BROWN EGG LAYERS							
HISEX (BROWN)	3	68.7	73.7	202.1	25.5	2.46	14.4
	4	63.0	65.0	185.2	23.7	2.63	10.0
HUBBARD (GOLDEN COMET)	3	70.3	74.4	206.8	25.6	2.48	11.1
	4	67.1	70.1	197.2	24.7	2.62	12.5
DEKALB (SEX-SAL-LINK-G)	3	70.7	72.1	207.8	25.5	2.54	4.4
	4	60.3	64.4	177.4	24.7	2.72	17.5
BROWN EGG AVERAGE	3	69.9	73.4	205.6	25.5	2.49	10.0
	4	63.5	66.5	186.6	24.4	2.66	13.3

TABLE 30. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	24.4	47.6	45.8	2.3	81.6
	4	24.0	44.3	40.4	2.3	82.1
ISA-BABCOCK (B300)	3	24.4	43.7	42.4	3.3	81.8
	4	24.2	41.8	40.9	3.3	82.4
HISEX (WHITE)	3	24.5	46.2	45.8	2.8	79.9
	4	24.5	44.6	42.9	2.9	80.3
H & N (NICK CHICK)	3	24.4	46.8	45.7	3.1	80.5
	4	24.4	44.0	40.4	2.8	81.1
HUBBARD (LEGHORN)	3	24.8	46.7	46.1	2.5	80.5
	4	24.4	44.3	43.6	2.6	81.4
HYLINE (W-36)	3	24.1	44.6	42.1	2.3	76.6
	4	24.0	43.9	42.5	2.2	77.5
COLONIAL (365-S)	3	23.6	40.7	40.3	2.5	78.2
	4	23.6	39.8	37.9	2.9	80.0
SHAVER (288-A)	3	24.2	45.1	43.4	2.9	81.1
	4	24.2	43.4	42.4	2.8	80.4
WHITE EGG AVERAGE	3	24.3	45.2	44.0	2.7	80.0
	4	24.2	43.2	41.4	2.7	80.7

BROWN EGG LAYERS						
HISEX (BROWN)	3	27.0	47.7	44.3	1.8	79.5
	4	26.7	41.7	40.4	2.1	81.7
HUBBARD (GOLDEN COMET)	3	26.4	47.1	44.5	1.6	82.0
	4	25.8	43.3	41.3	1.7	82.7
DEKALB (SEX-SAL-LINK-G)	3	26.3	46.2	45.2	1.5	83.6
	4	26.6	41.0	38.3	1.7	83.4
BROWN EGG AVERAGE	3	26.6	47.0	44.7	1.6	81.7
	4	26.4	42.0	40.0	1.8	82.6

TABLE 31. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	2.8	15.0	14.2	35.9	32.2
	4	1.7	17.6	16.2	37.9	26.6
ISA-BABCOCK (B300)	3	2.9	14.2	11.3	34.7	36.9
	4	3.2	15.7	12.6	35.1	33.4
HISEX (WHITE)	3	2.2	14.1	12.2	37.2	34.2
	4	2.3	15.3	12.3	37.0	33.1
H & N (NICK CHICK)	3	1.7	16.7	12.2	36.0	33.3
	4	2.1	15.9	13.2	35.1	33.8
HUBBARD (LEGHORN)	3	2.2	13.3	9.6	33.7	41.2
	4	2.5	16.0	13.8	32.1	35.6
HYLINE (W-36)	3	2.7	16.5	13.8	36.9	30.1
	4	1.7	19.6	14.2	35.2	29.4
COLONIAL (365-S)	3	2.5	21.1	18.9	35.9	21.6
	4	2.7	21.2	19.0	34.8	22.3
SHAVER (288-A)	3	1.7	16.7	14.5	36.7	30.4
	4	3.0	14.8	14.4	37.4	30.4
WHITE EGG AVERAGE	3	2.3	16.0	13.3	35.9	32.5
	4	2.4	17.0	14.5	35.6	30.6

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.4	7.5	4.9	17.7	69.5
	4	0.2	8.6	6.3	21.8	63.1
HUBBARD (GOLDEN COMET)	3	0.9	10.4	4.5	22.1	62.1
	4	0.6	11.3	7.4	26.4	54.3
DEKALB (SEX-SAL-LINK-G)	3	2.1	8.1	5.3	21.1	63.4
	4	0.1	8.2	7.1	21.2	63.4
BROWN EGG AVERAGE	3	1.1	8.7	4.9	20.3	65.0
	4	0.3	9.4	6.9	23.2	60.2

TABLE 32. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-434 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	94.5	2.0	3.2	0.4	0.0	0.0
	4	95.5	0.9	3.7	0.0	0.0	0.0
ISA-BABCOCK (B300)	3	96.9	1.4	1.3	0.5	0.0	0.0
	4	93.5	2.5	3.7	0.3	0.0	0.0
HISEX (WHITE)	3	92.1	3.3	4.1	0.5	2.8	0.0
	4	91.4	2.6	5.5	0.5	0.0	0.0
H & N (NICK CHICK)	3	95.9	2.0	2.1	0.0	0.0	0.0
	4	96.2	2.5	1.2	0.2	1.3	0.0
HUBBARD (LEGHORN)	3	95.5	1.0	3.0	0.5	2.6	0.0
	4	96.0	1.2	2.4	0.4	1.1	0.0
HYLINE (W-36)	3	95.2	1.9	3.0	0.0	0.0	0.0
	4	95.4	1.7	2.8	0.1	0.0	0.0
COLONIAL (365-S)	3	96.4	1.4	2.0	0.2	0.0	0.0
	4	95.6	2.4	1.9	0.1	2.3	0.0
SHAVER (288-A)	3	97.7	0.3	1.8	0.3	0.0	0.0
	4	95.6	1.5	2.8	0.1	3.3	0.0
WHITE EGG AVERAGE	3	95.5	1.6	2.6	0.3	0.7	0.0
	4	94.9	1.9	3.0	0.2	1.0	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	3	95.1	1.0	3.7	0.2	0.0	14.5
	4	91.6	2.9	5.2	0.3	2.5	6.8
HUBBARD (GOLDEN COMET)	3	97.7	0.5	1.8	0.0	2.7	8.9
	4	95.5	0.7	3.3	0.5	1.1	13.4
DEKALB (SEX-SAL-LINK-G)	3	93.1	1.4	4.8	0.7	1.4	11.3
	4	95.2	0.9	3.5	0.3	4.9	18.2
BROWN EGG AVERAGE	3	95.3	1.0	3.5	0.3	1.4	11.6
	4	94.1	1.5	4.0	0.4	2.8	12.8

TABLE 33. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	56.6	64.5	165.8	22.0	2.90	9.6
	D	52.9	60.0	156.8	19.6	3.04	13.3
ISA-BABCOCK (B300)	S	57.3	62.8	168.3	20.5	2.94	8.7
	D	54.7	62.0	159.1	20.5	2.91	3.7
HISEX (WHITE)	S	57.8	63.2	168.0	21.0	2.99	2.5
	D	55.6	61.5	161.9	20.7	3.07	5.8
H & N (NICK CHICK)	S	57.1	66.8	165.5	23.5	2.81	6.5
	D	54.3	66.6	159.3	24.0	2.88	12.8
HUBBARD (LEGHORN)	S	60.1	68.2	176.4	23.1	2.86	8.9
	D	61.4	68.4	180.4	22.3	2.96	11.7
HYLINE (W-36)	S	55.1	64.8	163.6	22.6	2.91	10.8
	D	54.1	63.9	161.1	21.1	2.81	7.5
COLONIAL (365-S)	S	49.6	59.0	143.9	19.1	2.83	15.0
	D	47.0	55.5	139.8	19.7	3.03	12.9
SHAVER (288-A)	S	56.5	62.5	164.7	20.6	2.97	2.9
	D	54.1	59.3	161.1	19.9	2.98	1.7
WHITE EGG AVERAGE	S	56.3	64.0	164.4	21.6	2.90	8.1
	D	54.3	62.2	159.8	21.0	2.96	8.7

BROWN EGG LAYERS							
HISEX (BROWN)	S	53.5	59.6	157.5	23.0	3.24	6.7
	D	43.6	56.2	127.5	23.6	3.46	22.9
HUBBARD (GOLDEN COMET)	S	50.6	61.2	148.2	23.8	3.25	11.2
	D	41.0	63.3	117.2	24.5	3.14	25.4
DEKALB (SEX-SAL-LINK-G)	S	46.7	62.0	134.6	25.3	3.24	19.2
	D	49.0	57.0	141.1	24.2	3.30	6.2
BROWN EGG AVERAGE	S	50.3	60.9	146.8	24.0	3.24	12.4
	D	44.5	58.8	128.6	24.1	3.29	18.2

TABLE 34. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	27.3	41.8	36.7	2.5	84.6
	D	26.2	37.3	32.8	2.5	83.0
ISA-BABCOCK (B300)	S	27.3	40.6	37.0	2.6	83.7
	D	27.2	40.0	35.3	2.9	81.7
HISEX (WHITE)	S	27.3	40.9	37.4	2.5	83.0
	D	27.5	40.1	36.3	2.5	85.0
H & N (NICK CHICK)	S	27.3	43.3	37.0	2.5	85.1
	D	27.7	43.8	35.7	2.6	83.4
HUBBARD (LEGHORN)	S	27.4	44.3	39.1	2.3	82.3
	D	27.1	44.1	39.6	2.4	81.3
HYLINE (W-36)	S	27.2	41.8	35.6	2.2	78.4
	D	27.2	41.4	35.0	2.4	80.7
COLONIAL (365-S)	S	26.9	37.5	31.5	2.3	81.8
	D	27.0	35.4	29.9	2.3	80.0
SHAVER (288-A)	S	26.9	39.9	36.1	2.4	82.2
	D	26.8	37.6	34.3	2.5	81.9
WHITE EGG AVERAGE	S	27.2	41.3	36.3	2.4	82.6
	D	27.1	40.0	34.9	2.5	82.1

BROWN EGG LAYERS						
HISEX (BROWN)	S	29.0	41.1	37.0	2.3	82.9
	D	29.2	38.9	30.1	2.1	79.4
HUBBARD (GOLDEN COMET)	S	28.8	41.8	34.5	2.4	83.4
	D	29.4	44.2	28.6	2.2	83.0
DEKALB (SEX-SAL-LINK-G)	S	33.7	42.9	32.3	2.2	87.3
	D	29.5	39.9	34.3	2.0	85.7
BROWN EGG AVERAGE	S	30.5	41.9	34.6	2.3	84.5
	D	29.4	41.0	31.0	2.1	82.7

TABLE 35. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	0.0	0.8	3.8	16.2	79.2
	D	0.1	0.8	3.5	28.7	66.9
ISA-BABCOCK (B300)	S	0.0	0.3	1.7	19.6	78.4
	D	0.0	0.3	2.5	21.5	75.7
HISEX (WHITE)	S	0.0	0.4	3.0	18.5	78.1
	D	0.0	1.1	2.5	20.4	76.0
H & N (NICK CHICK)	S	0.0	0.9	2.2	17.6	79.3
	D	0.0	1.2	2.6	13.3	82.8
HUBBARD (LEGHORN)	S	0.0	0.8	1.7	16.7	80.8
	D	0.0	0.4	5.3	15.7	78.6
HYLINE (W-36)	S	0.0	0.4	1.3	19.8	78.5
	D	0.0	0.3	2.0	19.2	78.5
COLONIAL (365-S)	S	0.0	0.3	1.7	23.3	74.7
	D	0.0	0.3	2.1	23.7	73.9
SHAVER (288-A)	S	0.0	0.7	6.6	22.0	70.6
	D	0.0	0.6	3.0	23.0	73.4
WHITE EGG AVERAGE	S	0.0	0.6	2.8	19.2	77.4
	D	0.0	0.6	2.9	20.7	75.8

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.0	0.0	0.7	7.4	91.9
	D	0.0	0.0	0.6	9.5	89.9
HUBBARD (GOLDEN COMET)	S	0.0	0.0	0.3	6.2	93.5
	D	0.0	0.0	0.4	2.5	97.0
DEKALB (SEX-SAL-LINK-G)	S	0.0	0.4	1.1	11.8	86.7
	D	0.0	0.2	0.8	4.0	95.0
BROWN EGG AVERAGE	S	0.0	0.1	0.7	8.5	90.7
	D	0.0	0.1	0.6	5.4	93.9

TABLE 36. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN
FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	93.4	1.6	4.8	0.2	1.7	0.0
	D	91.8	1.8	4.5	1.9	3.7	0.0
ISA-BABCOCK (B300)	S	94.2	4.3	1.2	0.3	2.3	0.0
	D	93.4	0.8	4.6	1.2	0.9	0.0
HISEX (WHITE)	S	90.9	3.9	3.0	2.2	1.4	0.0
	D	89.2	4.8	5.4	0.7	1.5	1.2
H & N (NICK CHICK)	S	89.8	7.7	1.7	0.9	1.4	0.0
	D	86.9	6.2	4.9	2.0	0.0	0.0
HUBBARD (LEGHORN)	S	94.4	1.4	3.5	0.8	1.0	0.0
	D	92.9	1.6	3.1	2.4	4.7	0.0
HYLINE (W-36)	S	95.9	1.9	1.9	0.3	2.3	0.8
	D	90.7	3.6	5.0	0.7	0.0	0.0
COLONIAL (365-S)	S	91.1	5.5	2.6	0.8	0.0	0.0
	D	85.2	6.6	7.7	0.5	1.4	1.0
SHAVER (288-A)	S	93.1	3.9	2.4	0.5	1.4	0.0
	D	97.5	1.2	0.9	0.3	3.1	1.7
WHITE EGG AVERAGE	S	92.8	3.8	2.6	0.7	1.4	0.1
	D	91.0	3.3	4.5	1.2	1.9	0.5

BROWN EGG LAYERS							
HISEX (BROWN)	S	94.0	2.3	2.5	1.2	8.0	7.4
	D	93.3	3.1	3.2	0.4	4.2	11.2
HUBBARD (GOLDEN COMET)	S	95.7	1.6	1.4	1.3	2.1	18.5
	D	95.8	1.0	2.6	0.6	3.6	23.9
DEKALB (SEX-SAL-LINK-G)	S	97.3	0.0	2.4	0.3	5.9	16.1
	D	92.1	1.5	4.6	1.7	5.9	12.9
BROWN EGG AVERAGE	S	95.7	1.3	2.1	0.9	5.3	14.0
	D	93.7	1.9	3.5	0.9	4.5	16.0

TABLE 37. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	61.4	66.2	182.1	21.4	2.98	6.2
	D	49.2	63.5	140.6	21.5	2.76	7.9
ISA-BABCOCK (B300)	S	59.3	62.2	175.2	21.9	3.14	3.3
	D	59.4	62.3	174.5	19.4	2.90	7.1
HISEX (WHITE)	S	53.4	63.1	156.5	22.1	3.02	6.2
	D	52.7	60.9	153.4	21.3	3.02	13.3
H & N (NICK CHICK)	S	59.4	66.8	174.9	24.1	3.00	6.5
	D	60.1	66.0	175.0	22.2	2.90	9.3
HUBBARD (LEGHORN)	S	59.5	65.8	176.3	24.5	3.13	5.6
	D	53.7	64.6	156.5	23.2	3.13	13.3
HYLINE (W-36)	S	56.2	65.1	163.6	21.8	2.95	8.7
	D	56.4	63.1	164.8	20.7	2.87	1.2
COLONIAL (365-S)	S	47.7	56.9	135.2	19.1	2.88	12.5
	D	47.8	56.4	137.3	19.3	2.99	10.0
SHAVER (288-A)	S	53.8	57.2	156.9	20.5	3.31	2.5
	D	54.1	57.9	158.6	20.0	3.05	3.3
WHITE EGG AVERAGE	S	56.3	62.9	165.0	21.9	3.05	6.4
	D	54.2	61.8	157.4	21.0	2.95	8.2

BROWN EGG LAYERS							
HISEX (BROWN)	S	51.3	59.6	149.4	23.9	3.32	4.6
	D	46.4	57.9	135.2	24.6	3.13	5.8
HUBBARD (GOLDEN COMET)	S	54.1	62.1	158.3	24.4	3.34	8.3
	D	45.4	62.6	133.8	24.5	2.96	17.5
DEKALB (SEX-SAL-LINK-G)	S	49.6	56.0	143.7	23.6	3.40	6.2
	D	46.1	58.4	133.9	24.0	3.16	19.2
BROWN EGG AVERAGE	S	51.7	59.2	150.5	24.0	3.35	6.4
	D	46.0	59.6	134.3	24.4	3.08	14.2

TABLE 38. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	27.7	43.5	40.4	2.3	76.2
	D	27.1	40.7	31.6	2.2	78.1
ISA-BABCOCK (B300)	S	27.4	40.6	38.8	2.4	77.2
	D	27.4	40.5	38.6	2.7	76.4
HISEX (WHITE)	S	27.5	41.2	34.9	2.4	77.5
	D	27.5	39.9	34.5	2.4	76.8
H & N (NICK CHICK)	S	27.5	43.6	38.8	2.5	81.9
	D	27.0	42.5	38.7	2.4	81.2
HUBBARD (LEGHORN)	S	27.3	42.7	38.7	2.2	78.3
	D	27.6	42.5	35.4	2.3	76.4
HYLINE (W-36)	S	27.3	42.1	36.3	2.2	73.1
	D	27.3	40.9	36.5	2.5	73.8
COLONIAL (365-S)	S	26.3	35.5	29.8	2.1	76.2
	D	27.0	36.0	30.5	2.4	77.9
SHAVER (288-A)	S	27.8	37.7	35.5	2.2	76.7
	D	27.5	37.7	35.2	2.4	76.8
WHITE EGG AVERAGE	S	27.3	40.9	36.6	2.3	77.1
	D	27.3	40.1	35.1	2.4	77.2

BROWN EGG LAYERS						
HISEX (BROWN)	S	29.2	41.4	35.7	2.1	76.7
	D	29.8	41.0	32.9	2.2	80.7
HUBBARD (GOLDEN COMET)	S	29.5	43.5	38.0	1.9	78.1
	D	28.7	42.5	30.9	2.2	80.6
DEKALB (SEX-SAL-LINK-G)	S	29.9	39.7	35.1	2.0	80.5
	D	29.3	40.4	31.9	2.1	80.7
BROWN EGG AVERAGE	S	29.5	41.5	36.2	2.0	78.4
	D	29.3	41.3	31.9	2.2	80.7

TABLE 39. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	0.0	0.3	3.4	15.0	81.3
	D	0.0	0.4	2.9	23.8	72.9
ISA-BABCOCK (B300)	S	0.0	0.3	2.6	15.9	81.1
	D	0.0	0.4	1.5	16.7	81.5
HISEX (WHITE)	S	0.2	0.2	2.0	13.3	84.3
	D	0.0	1.5	2.2	15.3	81.0
H & N (NICK CHICK)	S	0.0	0.8	2.3	13.0	83.9
	D	0.0	0.7	4.4	23.2	71.7
HUBBARD (LEGHORN)	S	0.0	1.4	4.1	15.8	78.6
	D	0.1	0.4	2.1	11.6	85.9
HYLINE (W-36)	S	0.0	0.3	1.3	19.8	78.7
	D	0.0	0.1	1.3	18.9	79.7
COLONIAL (365-S)	S	0.0	2.5	8.1	31.6	57.8
	D	0.0	0.5	3.7	22.6	73.3
SHAVER (288-A)	S	0.0	0.4	1.4	13.3	84.9
	D	0.0	0.1	0.8	17.6	81.5
WHITE EGG AVERAGE	S	0.0	0.8	3.2	17.2	78.8
	D	0.0	0.5	2.4	18.7	78.4

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.0	0.0	0.6	4.6	94.8
	D	0.0	0.1	0.4	4.2	95.3
HUBBARD (GOLDEN COMET)	S	0.0	0.4	0.1	4.4	95.1
	D	0.0	0.4	0.6	8.7	90.3
DEKALB (SEX-SAL-LINK-G)	S	0.0	0.0	0.1	4.8	95.1
	D	0.0	0.0	0.2	6.2	93.5
BROWN EGG AVERAGE	S	0.0	0.2	0.3	4.6	95.0
	D	0.0	0.2	0.4	6.4	93.1

TABLE 40. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	92.0	3.2	3.4	1.4	0.0	0.0
	D	92.9	2.1	3.9	1.1	0.0	0.0
ISA-BABCOCK (B300)	S	95.3	2.0	1.5	1.3	0.0	0.0
	D	94.3	3.1	1.3	1.3	4.5	0.0
HISEX (WHITE)	S	87.4	5.4	5.8	1.4	4.3	0.6
	D	87.7	4.0	5.4	2.8	1.4	0.0
H & N (NICK CHICK)	S	91.9	5.9	2.1	0.0	1.4	0.0
	D	93.1	3.5	3.2	0.2	0.8	0.0
HUBBARD (LEGHORN)	S	95.7	0.8	1.9	1.6	2.0	1.4
	D	88.8	4.3	3.6	3.3	5.7	0.0
HYLINE (W-36)	S	95.2	1.5	3.4	0.0	1.0	0.0
	D	92.0	2.5	3.9	1.7	0.0	0.0
COLONIAL (365-S)	S	93.6	3.5	2.6	0.3	1.4	0.8
	D	91.7	3.1	4.1	1.1	0.0	0.0
SHAVER (288-A)	S	92.4	2.7	3.0	1.9	1.4	0.0
	D	94.4	2.0	2.7	0.9	1.3	0.0
WHITE EGG AVERAGE	S	92.9	3.1	3.0	1.0	1.4	0.4
	D	91.9	3.1	3.5	1.5	1.7	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	S	94.9	0.3	3.4	1.4	0.0	17.5
	D	95.7	1.2	1.7	1.4	1.7	12.0
HUBBARD (GOLDEN COMET)	S	95.1	2.5	1.9	0.4	1.4	10.7
	D	97.2	1.7	0.3	0.8	5.4	20.7
DEKALB (SEX-SAL-LINK-G)	S	92.6	1.4	4.3	1.8	5.6	13.7
	D	95.0	0.7	2.4	1.9	0.7	10.7
BROWN EGG AVERAGE	S	94.2	1.4	3.2	1.2	2.3	14.0
	D	96.0	1.2	1.5	1.4	2.6	14.5

TABLE 41. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	57.9	65.5	167.3	20.7	2.98	7.9
	D	52.2	62.2	153.4	22.0	2.99	3.3
ISA-BABCOCK (B300)	S	53.5	61.7	155.4	21.2	2.96	2.5
	D	48.7	60.5	143.1	21.6	3.15	8.3
HISEX (WHITE)	S	57.6	62.9	167.5	20.6	2.98	7.1
	D	56.4	64.4	164.3	19.5	2.78	11.7
H & N (NICK CHICK)	S	55.9	67.3	161.5	22.0	2.80	6.0
	D	52.1	64.2	152.1	21.7	2.98	14.6
HUBBARD (LEGHORN)	S	62.8	66.9	184.7	22.9	2.78	5.6
	D	63.6	67.4	185.9	23.1	3.05	6.5
HYLINE (W-36)	S	59.6	64.0	175.2	19.3	2.83	9.2
	D	57.2	62.0	166.3	18.9	2.82	7.1
COLONIAL (365-S)	S	47.1	55.2	138.6	16.8	2.77	9.2
	D	46.5	52.2	136.9	17.8	3.23	8.7
SHAVER (288-A)	S	52.6	57.0	154.7	18.6	3.13	5.8
	D	57.8	60.0	169.2	18.0	2.85	0.0
WHITE EGG AVERAGE	S	55.9	62.5	162.7	20.3	2.90	6.7
	D	54.3	61.6	158.6	20.3	2.98	7.5

BROWN EGG LAYERS							
HISEX (BROWN)	S	46.6	56.6	137.5	23.2	3.27	7.5
	D	40.0	52.1	116.7	21.1	3.39	11.2
HUBBARD (GOLDEN COMET)	S	45.5	56.8	131.9	23.0	3.35	4.2
	D	52.1	59.6	149.3	22.8	3.39	6.2
DEKALB (SEX-SAL-LINK-G)	S	47.9	57.9	139.6	22.7	3.45	12.5
	D	48.5	58.9	139.2	23.6	3.27	18.3
BROWN EGG AVERAGE	S	46.7	57.1	136.3	23.0	3.36	8.1
	D	46.9	56.9	135.1	22.5	3.35	11.9

TABLE 42. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	26.1	40.5	35.8	2.1	80.1
	D	26.2	38.5	32.3	2.2	80.9
ISA-BABCOCK (B300)	S	27.1	39.9	34.6	2.7	80.8
	D	26.9	38.7	31.1	2.5	78.5
HISEX (WHITE)	S	26.6	39.7	36.3	2.3	79.0
	D	26.7	40.8	35.8	2.1	79.3
H & N (NICK CHICK)	S	26.4	42.1	35.0	2.5	79.6
	D	25.8	39.2	31.8	2.3	78.8
HUBBARD (LEGHORN)	S	26.9	42.8	40.2	2.3	80.4
	D	26.9	43.1	40.7	2.1	77.9
HYLINE (W-36)	S	26.8	40.9	38.1	2.1	73.7
	D	26.5	39.0	35.9	2.1	76.0
COLONIAL (365-S)	S	25.8	33.7	28.8	2.3	80.4
	D	25.6	31.7	28.2	2.1	76.4
SHAVER (288-A)	S	25.8	35.1	32.4	2.2	76.6
	D	25.8	36.9	35.5	2.3	79.1
WHITE EGG AVERAGE	S	26.4	39.3	35.2	2.3	78.8
	D	26.3	38.5	33.9	2.2	78.4

BROWN EGG LAYERS						
HISEX (BROWN)	S	27.8	37.6	31.0	2.0	77.9
	D	28.9	35.4	27.1	2.0	78.7
HUBBARD (GOLDEN COMET)	S	28.4	38.5	30.9	2.1	83.1
	D	27.8	39.7	34.7	2.1	81.6
DEKALB (SEX-SAL-LINK-G)	S	27.3	37.5	31.0	2.0	81.1
	D	28.2	39.4	32.5	1.7	81.0
BROWN EGG AVERAGE	S	27.9	37.9	31.0	2.0	80.7
	D	28.3	38.2	31.4	1.9	80.4

TABLE 43. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	0.2	2.4	7.0	27.3	63.1
	D	0.0	1.4	7.8	29.7	61.1
ISA-BABCOCK (B300)	S	0.0	3.3	2.2	15.8	78.7
	D	0.0	0.3	2.5	29.2	68.0
HISEX (WHITE)	S	0.0	0.9	5.6	25.4	68.1
	D	0.0	0.5	2.3	26.3	71.0
H & N (NICK CHICK)	S	0.0	1.2	6.1	33.3	59.4
	D	0.0	2.8	7.7	28.0	61.4
HUBBARD (LEGHORN)	S	0.0	0.2	3.0	18.8	78.1
	D	0.0	0.5	3.0	19.6	77.0
HYLINE (W-36)	S	0.0	0.4	3.2	27.1	69.3
	D	0.0	1.0	4.3	26.8	67.9
COLONIAL (365-S)	S	0.0	2.0	9.9	38.8	49.3
	D	0.0	1.9	8.5	44.6	45.0
SHAVER (288-A)	S	0.0	0.7	6.8	38.7	53.7
	D	0.1	1.5	7.6	39.8	51.0
WHITE EGG AVERAGE	S	0.0	1.4	5.5	28.2	64.9
	D	0.0	1.2	5.5	30.5	62.8

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.1	0.2	4.3	13.2	82.2
	D	0.0	0.0	1.6	8.3	90.1
HUBBARD (GOLDEN COMET)	S	0.0	0.1	1.2	10.1	88.6
	D	0.0	0.9	1.9	13.4	83.9
DEKALB (SEX-SAL-LINK-G)	S	0.0	0.3	1.9	20.8	77.0
	D	0.0	0.2	1.9	12.2	85.7
BROWN EGG AVERAGE	S	0.0	0.2	2.5	14.6	82.6
	D	0.0	0.4	1.8	11.3	86.5

TABLE 44. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	94.2	2.1	3.1	0.6	1.3	0.0
	D	89.4	4.0	4.3	2.2	0.0	0.0
ISA-BABCOCK (B300)	S	90.7	1.5	4.9	2.9	3.6	0.0
	D	92.5	3.2	3.0	1.3	6.0	0.0
HISEX (WHITE)	S	93.5	1.8	4.0	0.7	2.0	0.0
	D	94.2	0.2	4.2	1.3	0.7	0.0
H & N (NICK CHICK)	S	92.4	3.8	2.4	1.4	1.2	0.7
	D	90.4	6.3	2.5	0.8	0.0	0.0
HUBBARD (LEGHORN)	S	90.6	1.9	5.6	2.0	6.3	0.0
	D	94.2	1.5	3.8	0.5	2.9	0.0
HYLINE (W-36)	S	93.9	2.4	3.5	0.2	1.4	0.0
	D	93.7	3.0	3.3	0.0	0.0	0.0
COLONIAL (365-S)	S	95.0	1.9	2.8	0.3	0.0	0.0
	D	93.7	3.1	1.7	1.5	2.9	0.0
SHAVER (288-A)	S	92.5	3.2	3.2	1.1	2.7	0.7
	D	94.9	1.7	2.9	0.5	0.0	0.0
WHITE EGG AVERAGE	S	92.9	2.3	3.7	1.1	2.3	0.2
	D	92.9	2.9	3.2	1.0	1.6	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	S	95.5	1.2	3.0	0.3	6.3	13.5
	D	94.1	1.4	4.0	0.5	8.4	13.7
HUBBARD (GOLDEN COMET)	S	94.4	1.9	3.2	0.6	11.0	18.4
	D	97.4	1.1	1.6	0.0	9.3	18.5
DEKALB (SEX-SAL-LINK-G)	S	94.1	2.7	2.5	0.7	6.4	11.3
	D	95.5	1.3	2.7	0.4	8.1	22.1
BROWN EGG AVERAGE	S	94.7	1.9	2.9	0.5	7.9	14.4
	D	95.7	1.3	2.7	0.3	8.6	18.1

TABLE 45. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	53.9	61.2	158.4	20.8	2.88	11.7
	4	55.6	63.3	163.4	20.8	3.05	11.2
ISA-BABCOCK (B300)	3	58.4	62.4	171.6	20.8	3.04	5.0
	4	53.7	62.4	157.8	20.2	2.82	7.5
HISEX (WHITE)	3	60.7	65.2	178.4	21.0	2.93	3.3
	4	52.7	59.6	154.9	20.8	3.15	5.0
H & N (NICK CHICK)	3	61.0	68.3	179.4	23.3	2.78	11.1
	4	50.3	65.1	148.5	24.1	2.91	8.1
HUBBARD (LEGHORN)	3	62.1	67.6	182.7	22.5	2.91	6.7
	4	59.4	69.0	174.3	22.9	2.92	13.9
HYLINE (W-36)	3	50.3	66.0	147.9	23.9	2.86	13.3
	4	58.9	62.7	173.2	19.8	2.86	5.0
COLONIAL (365-S)	3	49.6	59.0	147.2	20.6	2.89	15.4
	4	47.1	55.6	138.4	18.2	2.97	12.5
SHAVER (288-A)	3	54.6	62.1	160.4	21.1	2.90	3.3
	4	56.0	59.6	164.8	19.4	3.05	1.2
WHITE EGG AVERAGE	3	56.3	64.0	165.8	21.8	2.90	8.7
	4	54.2	62.2	159.3	20.8	2.96	8.1

BROWN EGG LAYERS							
HISEX (BROWN)	3	49.1	56.5	144.4	23.3	3.44	8.3
	4	48.0	59.3	141.0	23.4	3.26	21.2
HUBBARD (GOLDEN COMET)	3	50.5	61.9	148.3	24.8	3.23	11.7
	4	41.2	62.6	121.1	23.6	3.16	25.0
DEKALB (SEX-SAL-LINK-G)	3	54.5	60.6	160.2	23.6	3.20	6.7
	4	41.2	58.4	121.1	25.9	3.34	18.7
BROWN EGG AVERAGE	3	51.4	59.7	151.0	23.9	3.29	8.9
	4	43.5	60.1	127.7	24.3	3.25	21.7

TABLE 46. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	27.0	39.1	34.4	2.7	85.0
	4	26.5	40.1	35.1	2.4	82.6
ISA-BABCOCK (B300)	3	27.3	40.5	37.8	2.7	83.4
	4	27.2	40.1	34.5	2.8	81.9
HISEX (WHITE)	3	27.5	42.6	39.7	2.5	83.2
	4	27.3	38.4	34.0	2.5	84.8
H & N (NICK CHICK)	3	27.6	44.8	40.0	2.6	84.5
	4	27.4	42.3	32.7	2.4	84.0
HUBBARD (LEGHORN)	3	27.9	44.8	41.1	2.3	82.0
	4	26.6	43.6	37.5	2.4	81.7
HYLINE (W-36)	3	27.3	42.8	32.6	2.3	81.6
	4	27.1	40.4	38.0	2.3	77.5
COLONIAL (365-S)	3	26.9	37.5	31.5	2.3	81.1
	4	26.9	35.3	29.9	2.3	80.6
SHAVER (288-A)	3	26.5	39.2	34.4	2.4	81.8
	4	27.2	38.4	36.0	2.6	82.3
WHITE EGG AVERAGE	3	27.2	41.4	36.4	2.5	82.8
	4	27.0	39.8	34.7	2.4	81.9

BROWN EGG LAYERS						
HISEX (BROWN)	3	29.3	39.4	34.2	2.1	79.6
	4	28.8	40.7	32.9	2.3	82.7
HUBBARD (GOLDEN COMET)	3	29.2	42.8	34.9	2.2	82.6
	4	29.0	43.1	28.2	2.3	83.7
DEKALB (SEX-SAL-LINK-G)	3	29.1	42.1	37.9	2.1	86.9
	4	34.2	40.7	28.7	2.1	86.1
BROWN EGG AVERAGE	3	29.2	41.4	35.7	2.2	83.0
	4	30.7	41.5	29.9	2.2	84.2

TABLE 47. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3 4	0.0 0.1	0.4 1.2	1.7 5.5	21.4 23.4	76.5 69.8
ISA-BABCOCK (B300)	3 4	0.0 0.0	0.3 0.2	1.8 2.4	21.3 19.8	76.6 77.6
HISEX (WHITE)	3 4	0.0 0.0	0.9 0.6	3.3 2.1	19.0 19.9	76.8 77.4
H & N (NICK CHICK)	3 4	0.0 0.0	0.9 1.2	2.2 2.6	14.2 16.8	82.7 79.4
HUBBARD (LEGHORN)	3 4	0.0 0.0	0.5 0.6	3.4 3.7	7.3 24.9	88.7 70.9
HYLINE (W-36)	3 4	0.0 0.0	0.4 0.3	1.2 2.1	17.6 21.4	80.8 76.2
COLONIAL (365-S)	3 4	0.0 0.0	0.2 0.4	1.2 2.6	23.4 23.6	75.2 73.4
SHAVER (288-A)	3 4	0.0 0.0	0.7 0.7	6.2 3.5	25.5 19.6	67.6 76.3
WHITE EGG AVERAGE	3 4	0.0 0.0	0.5 0.6	2.6 3.1	18.7 21.2	78.1 75.1

BROWN EGG LAYERS						
HISEX (BROWN)	3 4	0.0 0.0	0.0 0.0	0.6 0.6	7.4 9.6	92.0 89.8
HUBBARD (GOLDEN COMET)	3 4	0.0 0.0	0.0 0.0	0.0 0.7	2.3 6.5	97.6 92.8
DEKALB (SEX-SAL-LINK-G)	3 4	0.0 0.0	0.1 0.5	0.8 1.0	8.5 7.5	90.6 91.0
BROWN EGG AVERAGE	3 4	0.0 0.0	0.0 0.2	0.5 0.8	6.1 7.9	93.4 91.2

TABLE 48. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	94.6	1.0	3.6	0.8	2.4	0.0
	4	90.6	2.4	5.7	1.3	3.0	0.0
ISA-BABCOCK (B300)	3	94.2	1.5	3.3	1.0	1.0	0.0
	4	93.5	3.5	2.5	0.5	2.2	0.0
HISEX (WHITE)	3	86.7	5.8	5.2	2.4	2.9	0.0
	4	93.4	2.9	3.2	0.5	0.0	1.2
H & N (NICK CHICK)	3	88.1	7.0	3.3	1.6	0.0	0.0
	4	88.6	7.0	3.2	1.3	1.4	0.0
HUBBARD (LEGHORN)	3	93.2	2.4	2.9	1.4	1.0	0.0
	4	94.0	0.6	3.7	1.7	4.7	0.0
HYLINE (W-36)	3	93.8	2.8	2.7	0.6	2.3	0.0
	4	92.9	2.6	4.1	0.4	0.0	0.8
COLONIAL (365-S)	3	89.8	4.9	4.6	0.8	0.0	0.0
	4	86.5	7.2	5.7	0.5	1.4	1.0
SHAVER (288-A)	3	96.1	2.0	1.2	0.6	4.4	1.7
	4	94.5	3.1	2.1	0.2	0.0	0.0
WHITE EGG AVERAGE	3	92.1	3.4	3.4	1.2	1.8	0.2
	4	91.7	3.7	3.8	0.8	1.6	0.4

BROWN EGG LAYERS							
HISEX (BROWN)	3	93.7	3.1	2.1	1.0	5.4	8.9
	4	93.6	2.2	3.6	0.6	6.8	9.7
HUBBARD (GOLDEN COMET)	3	94.9	2.4	2.0	0.7	3.8	20.6
	4	96.6	0.2	2.0	1.1	1.9	21.8
DEKALB (SEX-SAL-LINK-G)	3	94.1	1.0	3.5	1.4	6.2	11.2
	4	95.4	0.6	3.4	0.6	5.6	17.8
BROWN EGG AVERAGE	3	94.2	2.2	2.5	1.1	5.1	13.6
	4	95.2	1.0	3.0	0.8	4.8	16.4

TABLE 49. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	58.4	65.5	171.6	21.1	2.82	6.7
	4	52.3	64.2	153.7	21.9	2.92	7.5
ISA-BABCOCK (B300)	3	58.5	61.5	172.0	21.2	3.11	6.7
	4	60.2	63.0	177.0	20.2	2.93	3.7
HISEX (WHITE)	3	55.5	64.7	163.0	22.0	2.89	13.3
	4	50.6	59.3	148.9	21.4	3.17	6.2
H & N (NICK CHICK)	3	61.6	67.4	181.2	23.5	2.96	7.4
	4	57.9	65.4	170.3	22.9	2.94	8.3
HUBBARD (LEGHORN)	3	56.7	64.2	166.7	24.6	3.18	8.9
	4	56.5	66.2	165.3	23.1	3.07	10.0
HYLINE (W-36)	3	59.2	67.4	174.0	21.3	2.78	5.0
	4	53.4	60.8	156.9	21.2	3.05	5.0
COLONIAL (365-S)	3	55.9	60.8	164.1	19.2	2.76	8.7
	4	39.6	52.5	116.5	19.3	3.14	13.7
SHAVER (288-A)	3	56.0	59.3	164.5	19.8	3.03	3.3
	4	51.9	55.8	152.6	20.6	3.33	2.5
WHITE EGG AVERAGE	3	57.7	63.8	169.5	21.6	2.93	7.5
	4	52.8	60.9	154.9	21.3	3.06	7.1

BROWN EGG LAYERS							
HISEX (BROWN)	3	52.0	61.8	152.8	25.3	3.17	6.7
	4	45.7	55.6	134.5	23.3	3.28	3.7
HUBBARD (GOLDEN COMET)	3	50.2	61.0	147.7	24.2	3.20	8.3
	4	49.3	63.6	144.8	24.8	3.08	17.5
DEKALB (SEX-SAL-LINK-G)	3	52.5	60.1	154.2	23.9	3.12	11.7
	4	43.3	54.4	127.3	23.7	3.43	13.7
BROWN EGG AVERAGE	3	51.6	61.0	151.6	24.4	3.17	8.9
	4	46.1	57.9	135.5	23.9	3.26	11.7

TABLE 50. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	27.4	42.6	38.0	2.3	77.4
	4	27.4	41.6	34.0	2.2	76.9
ISA-BABCOCK (B300)	3	27.3	40.0	38.0	2.5	76.1
	4	27.6	41.2	39.4	2.6	77.5
HISEX (WHITE)	3	27.6	42.4	36.4	2.6	76.3
	4	27.4	38.6	33.0	2.3	78.1
H & N (NICK CHICK)	3	27.3	43.8	40.1	2.5	81.9
	4	27.1	42.3	37.4	2.4	81.3
HUBBARD (LEGHORN)	3	27.7	42.4	37.4	2.3	76.9
	4	27.2	42.9	36.6	2.2	77.8
HYLINE (W-36)	3	27.3	43.6	38.3	2.4	72.7
	4	27.2	39.3	34.5	2.3	74.2
COLONIAL (365-S)	3	26.8	38.7	35.5	2.1	76.8
	4	26.4	32.8	24.8	2.4	77.3
SHAVER (288-A)	3	27.6	38.9	36.7	2.3	75.9
	4	27.6	36.4	33.9	2.3	77.6
WHITE EGG AVERAGE	3	27.4	41.5	37.6	2.4	76.7
	4	27.2	39.4	34.2	2.3	77.6

BROWN EGG LAYERS						
HISEX (BROWN)	3	29.5	43.2	36.3	2.2	80.7
	4	29.5	39.2	32.2	2.1	76.6
HUBBARD (GOLDEN COMET)	3	29.3	42.4	35.0	2.1	78.3
	4	28.9	43.6	33.8	2.0	80.5
DEKALB (SEX-SAL-LINK-G)	3	29.3	41.6	36.3	1.9	80.0
	4	29.9	38.5	30.6	2.2	81.3
BROWN EGG AVERAGE	3	29.4	42.4	35.9	2.1	79.7
	4	29.4	40.4	32.2	2.1	79.5

TABLE 51. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	0.0	0.2	5.0	19.3	75.5
	4	0.0	0.5	1.3	19.4	78.8
ISA-BABCOCK (B300)	3	0.0	0.3	2.9	18.7	78.1
	4	0.0	0.4	1.1	13.9	84.6
HISEX (WHITE)	3	0.2	0.9	1.9	13.8	83.3
	4	0.0	0.8	2.3	14.8	82.1
H & N (NICK CHICK)	3	0.0	0.6	4.1	16.4	78.9
	4	0.0	1.0	2.6	19.8	76.7
HUBBARD (LEGHORN)	3	0.1	0.5	3.7	11.6	84.1
	4	0.0	1.3	2.5	15.9	80.4
HYLINE (W-36)	3	0.0	0.1	1.1	17.7	81.1
	4	0.0	0.3	1.5	20.9	77.2
COLONIAL (365-S)	3	0.0	1.2	4.5	23.8	70.6
	4	0.0	1.8	7.3	30.4	60.5
SHAVER (288-A)	3	0.0	0.4	1.4	13.9	84.4
	4	0.0	0.2	0.9	16.9	82.0
WHITE EGG AVERAGE	3	0.0	0.5	3.1	16.9	79.5
	4	0.0	0.8	2.4	19.0	77.8

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.0	0.0	0.1	2.9	97.0
	4	0.0	0.2	0.8	5.8	93.2
HUBBARD (GOLDEN COMET)	3	0.0	0.7	0.7	4.5	94.2
	4	0.0	0.2	0.0	8.5	91.3
DEKALB (SEX-SAL-LINK-G)	3	0.0	0.0	0.4	5.6	94.1
	4	0.0	0.0	0.0	5.5	94.5
BROWN EGG AVERAGE	3	0.0	0.2	0.4	4.3	95.1
	4	0.0	0.1	0.3	6.6	93.0

TABLE 52. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	93.8	2.9	3.0	0.3	0.0	0.0
	4	91.1	2.4	4.3	2.2	0.0	0.0
ISA-BABCOCK (B300)	3	94.5	2.7	1.2	1.6	2.6	0.0
	4	95.1	2.4	1.6	0.9	2.0	0.0
HISEX (WHITE)	3	87.1	5.1	5.9	1.8	1.4	0.0
	4	88.0	4.3	5.3	2.4	4.3	0.6
H & N (NICK CHICK)	3	91.9	6.0	2.0	0.0	0.8	0.0
	4	93.1	3.4	3.3	0.2	1.4	0.0
HUBBARD (LEGHORN)	3	92.0	1.6	3.3	3.1	3.5	0.0
	4	92.5	3.5	2.3	1.7	4.2	1.4
HYLINE (W-36)	3	94.6	2.0	3.2	0.3	0.0	0.0
	4	92.6	2.0	4.0	1.4	1.0	0.0
COLONIAL (365-S)	3	93.7	3.3	2.7	0.3	1.4	0.0
	4	91.6	3.2	4.0	1.1	0.0	0.8
SHAVER (288-A)	3	92.2	3.2	3.4	1.2	2.7	0.0
	4	94.6	1.5	2.3	1.6	0.0	0.0
WHITE EGG AVERAGE	3	92.5	3.3	3.1	1.1	1.5	0.0
	4	92.3	2.8	3.4	1.4	1.6	0.4

BROWN EGG LAYERS							
HISEX (BROWN)	3	95.6	0.8	1.6	1.9	1.7	11.9
	4	94.9	0.7	3.5	0.9	0.0	17.7
HUBBARD (GOLDEN COMET)	3	94.9	2.5	1.6	1.0	5.4	13.6
	4	97.4	1.7	0.7	0.2	1.4	17.8
DEKALB (SEX-SAL-LINK-G)	3	93.4	1.0	2.1	3.4	1.8	10.3
	4	94.2	1.0	4.5	0.3	4.5	14.0
BROWN EGG AVERAGE	3	94.7	1.4	1.8	2.1	2.9	11.9
	4	95.5	1.1	2.9	0.5	2.0	16.5

TABLE 53. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	60.7	66.1	178.4	20.5	2.80	1.7
	4	49.4	61.5	145.8	22.1	3.18	9.6
ISA-BABCOCK (B300)	3	53.5	63.1	157.3	22.1	3.13	3.3
	4	48.7	59.0	143.2	20.7	2.98	7.5
HISEX (WHITE)	3	60.9	65.6	179.1	20.0	2.93	10.0
	4	53.1	61.7	156.0	20.2	2.83	8.7
H & N (NICK CHICK)	3	58.5	67.3	172.6	22.6	2.85	10.2
	4	49.5	64.3	145.5	21.0	2.93	10.4
HUBBARD (LEGHORN)	3	65.6	67.9	193.4	23.5	3.00	6.0
	4	60.8	66.4	179.2	22.5	2.83	6.1
HYLINE (W-36)	3	60.4	64.8	177.5	19.0	2.76	10.0
	4	56.3	61.1	165.6	19.2	2.89	6.2
COLONIAL (365-S)	3	46.1	54.8	135.4	17.7	2.95	11.7
	4	47.5	52.6	139.6	16.9	3.02	6.2
SHAVER (288-A)	3	56.0	58.6	164.7	17.9	2.93	3.3
	4	54.4	58.4	159.9	18.6	3.04	2.5
WHITE EGG AVERAGE	3	57.7	63.5	169.3	20.4	2.92	7.0
	4	52.5	60.6	154.2	20.1	2.96	7.2

BROWN EGG LAYERS							
HISEX (BROWN)	3	43.7	57.7	128.4	23.6	3.12	10.0
	4	42.9	51.0	126.1	20.6	3.56	8.7
HUBBARD (GOLDEN COMET)	3	55.7	59.5	163.7	21.9	3.28	1.7
	4	41.9	57.0	123.3	23.9	3.46	8.7
DEKALB (SEX-SAL-LINK-G)	3	53.5	61.5	157.1	21.9	3.03	23.3
	4	42.9	55.2	126.1	24.4	3.74	7.5
BROWN EGG AVERAGE	3	50.9	59.6	149.7	22.5	3.14	11.7
	4	42.6	54.4	125.2	23.0	3.58	8.3

TABLE 54. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	26.1	40.8	37.5	2.3	80.4
	4	26.2	38.2	30.6	2.0	80.6
ISA-BABCOCK (B300)	3	26.8	40.4	34.3	2.6	80.8
	4	27.3	38.2	31.5	2.5	78.4
HISEX (WHITE)	3	26.5	41.3	38.3	2.2	78.9
	4	26.9	39.2	33.7	2.3	79.4
H & N (NICK CHICK)	3	26.0	41.5	36.1	2.6	80.1
	4	26.2	39.9	30.7	2.3	78.3
HUBBARD (LEGHORN)	3	27.0	43.6	42.1	2.2	79.6
	4	26.9	42.3	38.8	2.2	78.7
HYLINE (W-36)	3	26.5	40.9	38.1	2.1	74.6
	4	26.7	39.0	35.9	2.2	75.1
COLONIAL (365-S)	3	25.9	33.6	28.3	2.1	78.0
	4	25.6	31.8	28.7	2.3	78.9
SHAVER (288-A)	3	25.8	36.0	34.4	2.4	76.3
	4	25.8	35.9	33.4	2.1	79.5
WHITE EGG AVERAGE	3	26.3	39.8	36.1	2.3	78.6
	4	26.4	38.1	32.9	2.2	78.6

BROWN EGG LAYERS						
HISEX (BROWN)	3	28.4	38.7	29.3	2.0	78.2
	4	28.3	34.4	28.9	2.0	78.4
HUBBARD (GOLDEN COMET)	3	28.4	40.4	37.8	2.1	83.5
	4	27.8	37.8	27.8	2.0	81.3
DEKALB (SEX-SAL-LINK-G)	3	28.1	40.9	35.5	1.8	81.6
	4	27.5	36.0	27.9	1.9	80.5
BROWN EGG AVERAGE	3	28.3	40.0	34.2	2.0	81.1
	4	27.9	36.0	28.2	2.0	80.0

TABLE 55. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	0.2	2.1	7.3	28.2	62.1
	4	0.0	1.7	7.5	28.8	62.0
ISA-BABCOCK (B300)	3	0.0	3.1	2.4	21.9	72.6
	4	0.0	0.4	2.3	23.3	74.0
HISEX (WHITE)	3	0.0	0.6	4.1	28.1	67.2
	4	0.1	0.8	3.8	23.5	71.9
H & N (NICK CHICK)	3	0.0	2.4	6.7	31.7	59.2
	4	0.0	1.6	7.2	29.6	61.6
HUBBARD (LEGHORN)	3	0.0	0.4	2.7	15.0	81.9
	4	0.0	0.3	3.2	23.5	73.1
HYLINE (W-36)	3	0.0	0.4	2.5	27.0	70.2
	4	0.0	1.0	5.0	26.9	67.0
COLONIAL (365-S)	3	0.0	0.5	7.5	40.6	51.4
	4	0.0	3.5	10.9	42.8	42.8
SHAVER (288-A)	3	0.0	1.4	6.1	41.8	50.7
	4	0.1	0.9	8.3	36.7	54.1
WHITE EGG AVERAGE	3	0.0	1.3	4.9	29.3	64.4
	4	0.0	1.3	6.1	29.4	63.2

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.1	0.2	1.7	12.5	85.5
	4	0.0	0.0	4.2	9.1	86.7
HUBBARD (GOLDEN COMET)	3	0.0	0.1	0.3	10.7	88.9
	4	0.0	1.0	2.7	12.7	83.6
DEKALB (SEX-SAL-LINK-G)	3	0.0	0.1	1.3	15.4	83.2
	4	0.0	0.4	2.6	17.5	79.5
BROWN EGG AVERAGE	3	0.0	0.1	1.1	12.9	85.9
	4	0.0	0.5	3.1	13.1	83.3

TABLE 56. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	92.6	2.9	3.3	1.3	1.3	0.0
	4	91.1	3.3	4.1	1.5	0.0	0.0
ISA-BABCOCK (B300)	3	92.6	1.2	3.1	3.1	7.5	0.0
	4	90.6	3.5	4.8	1.1	2.0	0.0
HISEX (WHITE)	3	94.6	1.3	3.0	1.0	0.0	0.0
	4	93.2	0.7	5.2	0.9	2.7	0.0
H & N (NICK CHICK)	3	92.5	3.9	1.8	1.8	1.2	0.0
	4	90.3	6.2	3.1	0.4	0.0	0.7
HUBBARD (LEGHORN)	3	91.3	2.4	4.5	1.8	5.2	0.0
	4	93.5	1.0	4.8	0.7	4.0	0.0
HYLINE (W-36)	3	94.4	2.3	3.3	0.0	0.0	0.0
	4	93.2	3.1	3.5	0.2	1.4	0.0
COLONIAL (365-S)	3	96.0	1.6	2.0	0.4	1.5	0.0
	4	92.8	3.4	2.5	1.4	1.4	0.0
SHAVER (288-A)	3	94.5	2.7	2.3	0.5	1.3	0.0
	4	92.9	2.2	3.8	1.1	1.4	0.7
WHITE EGG AVERAGE	3	93.5	2.3	2.9	1.3	2.3	0.0
	4	92.2	2.9	4.0	0.9	1.6	0.2

BROWN EGG LAYERS							
HISEX (BROWN)	3	95.1	1.6	2.8	0.5	5.1	15.2
	4	94.5	1.0	4.2	0.3	9.6	12.1
HUBBARD (GOLDEN COMET)	3	95.8	1.3	2.7	0.3	8.8	17.7
	4	96.0	1.6	2.1	0.2	11.6	19.1
DEKALB (SEX-SAL-LINK-G)	3	94.5	1.6	3.1	0.8	8.3	21.7
	4	95.2	2.4	2.1	0.3	6.3	11.7
BROWN EGG AVERAGE	3	95.1	1.5	2.9	0.5	7.4	18.2
	4	95.2	1.7	2.8	0.3	9.1	14.3

TABLE 57. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	60.3	65.9	177.1	21.1	2.86	6.7
	4	57.0	64.8	167.6	21.7	3.04	9.2
ISA-BABCOCK (B300)	3	57.8	61.3	169.9	21.7	3.19	5.6
	4	55.7	63.2	163.6	20.7	2.85	4.2
HISEX (WHITE)	3	59.4	65.7	174.7	21.5	2.93	5.6
	4	53.1	60.5	156.0	21.0	3.07	5.0
H & N (NICK CHICK)	3	61.3	67.2	180.3	23.3	2.88	6.2
	4	53.6	66.7	157.5	23.0	2.85	6.5
HUBBARD (LEGHORN)	3	60.3	66.7	177.1	24.3	2.99	8.7
	4	61.4	67.2	180.4	22.7	2.85	4.6
HYLINE (W-36)	3	57.1	67.4	167.7	22.0	2.82	13.3
	4	56.9	61.9	167.2	20.5	2.98	5.8
COLONIAL (365-S)	3	52.5	61.1	153.9	19.3	2.71	10.2
	4	43.8	53.0	128.7	17.4	2.95	14.2
SHAVER (288-A)	3	56.3	60.9	165.6	19.9	3.05	3.3
	4	52.3	56.9	153.6	19.9	3.21	4.2
WHITE EGG AVERAGE	3	58.1	64.5	170.7	21.6	2.92	7.4
	4	54.2	61.8	159.1	20.9	2.97	6.7

BROWN EGG LAYERS							
HISEX (BROWN)	3	51.0	59.2	150.1	24.5	3.37	6.7
	4	49.9	58.0	146.7	22.2	3.19	5.8
HUBBARD (GOLDEN COMET)	3	52.7	59.7	154.8	23.5	3.33	6.7
	4	47.5	60.3	139.6	24.0	3.29	9.2
DEKALB (SEX-SAL-LINK-G)	3	52.8	59.6	155.3	23.3	3.26	11.1
	4	43.3	57.8	127.3	24.5	3.46	14.2
BROWN EGG AVERAGE	3	52.2	59.5	153.4	23.8	3.32	8.1
	4	46.9	58.7	137.9	23.6	3.31	9.7

TABLE 58. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	26.9	42.0	38.4	2.5	81.2
	4	27.2	41.8	36.9	2.2	79.4
ISA-BABCOCK (B300)	3	27.1	39.7	37.4	2.5	80.1
	4	27.5	41.1	36.2	2.6	81.0
HISEX (WHITE)	3	27.2	42.4	38.3	2.5	79.4
	4	27.1	38.8	34.0	2.4	80.3
H & N (NICK CHICK)	3	27.3	43.5	39.8	2.6	82.9
	4	26.8	42.5	34.2	2.4	81.5
HUBBARD (LEGHORN)	3	27.5	43.6	39.4	2.3	80.2
	4	26.9	43.0	39.2	2.3	80.4
HYLINE (W-36)	3	27.1	43.3	36.7	2.2	75.2
	4	27.1	39.9	36.7	2.2	74.9
COLONIAL (365-S)	3	26.4	38.3	32.9	2.1	79.8
	4	26.2	32.9	27.1	2.3	79.2
SHAVER (288-A)	3	26.6	38.6	35.7	2.3	78.1
	4	27.1	36.5	33.5	2.3	78.9
WHITE EGG AVERAGE	3	27.0	41.4	37.3	2.4	79.6
	4	27.0	39.6	34.7	2.3	79.4

BROWN EGG LAYERS						
HISEX (BROWN)	3	28.8	40.4	34.9	2.2	79.3
	4	28.6	39.7	34.1	2.1	79.0
HUBBARD (GOLDEN COMET)	3	29.3	41.5	36.6	2.1	80.7
	4	28.5	41.0	32.3	2.1	82.5
DEKALB (SEX-SAL-LINK-G)	3	28.7	40.5	36.0	2.0	83.5
	4	31.9	39.5	29.6	2.1	82.4
BROWN EGG AVERAGE	3	28.9	40.8	35.8	2.1	81.1
	4	29.7	40.1	32.0	2.1	81.3

TABLE 59. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	0.1	1.2	4.7	19.7	74.3
	4	0.0	1.1	4.8	19.3	74.9
ISA-BABCOCK (B300)	3	0.0	2.2	3.0	17.6	77.1
	4	0.0	0.3	1.3	16.5	81.9
HISEX (WHITE)	3	0.1	0.5	3.7	19.3	76.5
	4	0.0	0.5	3.4	18.9	77.2
H & N (NICK CHICK)	3	0.0	0.6	2.7	20.3	76.4
	4	0.0	1.3	4.3	22.3	72.0
HUBBARD (LEGHORN)	3	0.0	0.7	3.3	10.9	85.0
	4	0.0	0.9	2.5	23.3	73.3
HYLINE (W-36)	3	0.0	0.3	1.3	21.7	76.6
	4	0.0	0.4	2.6	22.7	74.4
COLONIAL (365-S)	3	0.0	0.5	4.4	30.9	64.2
	4	0.0	2.7	8.8	31.6	57.0
SHAVER (288-A)	3	0.0	0.6	5.3	27.9	66.2
	4	0.0	0.6	4.5	21.5	73.3
WHITE EGG AVERAGE	3	0.0	0.8	3.6	21.1	74.5
	4	0.0	1.0	4.0	22.0	73.0

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.0	0.1	1.0	8.1	90.8
	4	0.0	0.1	2.6	8.7	88.6
HUBBARD (GOLDEN COMET)	3	0.0	0.2	0.1	4.3	95.3
	4	0.0	0.1	0.9	9.5	89.5
DEKALB (SEX-SAL-LINK-G)	3	0.0	0.1	1.2	12.8	85.9
	4	0.0	0.4	0.9	12.1	86.6
BROWN EGG AVERAGE	3	0.0	0.2	0.8	8.3	90.7
	4	0.0	0.2	1.5	10.1	88.2

TABLE 60. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	94.7	1.9	3.0	0.4	1.5	0.0
	4	91.6	2.8	4.6	1.0	0.5	0.0
ISA-BABCOCK (B300)	3	94.1	2.2	1.9	1.8	2.1	0.0
	4	92.7	2.9	3.1	1.2	1.8	0.0
HISEX (WHITE)	3	88.4	4.9	4.6	2.1	0.9	0.0
	4	92.8	2.5	3.9	0.7	4.2	0.4
H & N (NICK CHICK)	3	90.1	6.8	1.7	1.4	0.8	0.0
	4	92.6	4.8	2.5	0.2	1.9	0.4
HUBBARD (LEGHORN)	3	93.2	2.1	3.0	1.8	3.7	0.0
	4	93.9	0.6	4.4	1.1	2.5	0.9
HYLINE (W-36)	3	95.5	1.5	2.9	0.2	1.5	0.0
	4	94.5	2.4	3.0	0.1	1.6	0.5
COLONIAL (365-S)	3	93.2	2.8	3.3	0.7	0.9	0.0
	4	93.3	4.4	2.1	0.2	0.0	0.6
SHAVER (288-A)	3	93.1	3.9	2.2	0.8	2.7	0.0
	4	92.3	2.6	3.6	1.5	0.9	0.5
WHITE EGG AVERAGE	3	92.8	3.3	2.8	1.1	1.8	0.0
	4	93.0	2.9	3.4	0.8	1.7	0.4

BROWN EGG LAYERS							
HISEX (BROWN)	3	94.9	1.7	2.3	1.1	2.9	12.8
	4	94.6	0.8	3.7	0.9	6.6	12.8
HUBBARD (GOLDEN COMET)	3	94.4	2.3	2.5	0.7	5.0	15.3
	4	95.7	1.7	1.8	0.8	4.7	16.4
DEKALB (SEX-SAL-LINK-G)	3	94.3	1.4	2.7	1.6	6.4	11.8
	4	95.1	1.3	3.4	0.2	5.6	15.6
BROWN EGG AVERAGE	3	94.5	1.8	2.5	1.1	4.8	13.3
	4	95.2	1.3	3.0	0.6	5.6	14.9

TABLE 61. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	55.0	62.6	161.8	20.6	2.80	6.7
	4	47.8	61.2	140.5	21.5	3.06	9.7
ISA-BABCOCK (B300)	3	55.8	63.4	164.0	21.0	3.00	4.4
	4	52.7	59.8	155.0	20.0	2.98	8.3
HISEX (WHITE)	3	58.6	64.6	172.3	20.4	2.90	12.2
	4	51.2	59.9	150.6	20.6	3.02	8.3
H & N (NICK CHICK)	3	59.4	68.1	175.2	23.0	2.84	13.0
	4	51.6	63.1	152.5	22.3	3.00	11.4
HUBBARD (LEGHORN)	3	62.7	66.4	183.7	22.7	3.07	5.7
	4	56.5	67.2	164.4	23.0	3.03	15.3
HYLINE (W-36)	3	56.2	64.8	165.2	20.8	2.78	5.6
	4	55.5	61.2	163.2	19.6	2.89	5.0
COLONIAL (365-S)	3	48.5	55.3	143.3	19.0	3.04	13.6
	4	45.7	54.1	134.2	18.9	3.13	7.5
SHAVER (288-A)	3	54.7	59.1	160.7	19.3	2.85	3.3
	4	56.0	59.0	164.6	19.2	3.06	0.0
WHITE EGG AVERAGE	3	56.4	63.0	165.8	20.9	2.91	8.1
	4	52.1	60.7	153.0	20.6	3.02	8.2

BROWN EGG LAYERS							
HISEX (BROWN)	3	45.5	58.1	133.7	23.6	3.12	10.0
	4	41.2	52.7	121.1	22.6	3.55	16.7
HUBBARD (GOLDEN COMET)	3	51.6	61.9	151.6	23.7	3.15	7.8
	4	40.8	61.8	119.8	24.2	3.16	25.0
DEKALB (SEX-SAL-LINK-G)	3	54.1	61.9	159.1	23.0	2.99	16.7
	4	41.6	54.2	122.4	24.8	3.53	12.5
BROWN EGG AVERAGE	3	50.4	60.7	148.1	23.4	3.09	11.5
	4	41.2	56.2	121.1	23.9	3.40	18.1

TABLE 62. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	26.8	39.6	34.8	2.3	80.7
	4	26.2	38.1	29.7	2.2	80.6
ISA-BABCOCK (B300)	3	27.1	40.9	36.0	2.7	80.1
	4	27.2	38.6	34.0	2.7	77.6
HISEX (WHITE)	3	27.2	41.8	37.9	2.3	79.5
	4	27.3	38.7	33.1	2.3	81.3
H & N (NICK CHICK)	3	26.7	43.2	37.7	2.5	81.4
	4	27.0	40.5	33.1	2.4	80.9
HUBBARD (LEGHORN)	3	27.5	43.5	41.0	2.3	78.7
	4	26.9	42.9	36.1	2.3	78.3
HYLINE (W-36)	3	27.0	41.5	36.0	2.3	77.4
	4	27.0	39.3	35.6	2.3	76.3
COLONIAL (365-S)	3	26.7	34.9	30.6	2.2	77.5
	4	26.4	33.8	28.5	2.3	78.7
SHAVER (288-A)	3	26.7	37.5	34.6	2.4	77.9
	4	26.7	37.3	35.4	2.4	80.6
WHITE EGG AVERAGE	3	27.0	40.4	36.1	2.4	79.2
	4	26.8	38.6	33.2	2.4	79.3

BROWN EGG LAYERS						
HISEX (BROWN)	3	29.4	40.4	31.6	2.0	79.7
	4	29.2	36.5	28.5	2.2	79.5
HUBBARD (GOLDEN COMET)	3	28.7	42.3	35.2	2.2	82.3
	4	28.6	41.9	27.5	2.1	81.2
DEKALB (SEX-SAL-LINK-G)	3	28.9	42.6	37.2	1.9	82.2
	4	29.0	37.2	28.6	2.0	82.8
BROWN EGG AVERAGE	3	29.0	41.8	34.7	2.0	81.4
	4	28.9	38.6	28.2	2.1	81.2

TABLE 63. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	0.0	0.6	4.7	26.2	68.5
	4	0.1	1.1	4.8	28.5	65.5
ISA-BABCOCK (B300)	3	0.0	0.2	1.8	23.6	74.4
	4	0.0	0.4	2.6	21.4	75.6
HISEX (WHITE)	3	0.0	1.1	2.5	21.4	75.0
	4	0.0	0.9	2.1	19.8	77.1
H & N (NICK CHICK)	3	0.0	1.9	5.9	21.2	70.9
	4	0.0	1.2	3.9	21.8	73.1
HUBBARD (LEGHORN)	3	0.0	0.3	3.2	11.7	84.7
	4	0.0	0.6	3.7	19.5	76.2
HYLINE (W-36)	3	0.0	0.2	1.9	19.8	78.1
	4	0.0	0.7	3.2	23.5	72.6
COLONIAL (365-S)	3	0.0	0.7	4.4	27.6	67.3
	4	0.0	1.1	5.1	33.0	60.8
SHAVER (288-A)	3	0.0	1.0	3.8	26.5	68.7
	4	0.0	0.5	3.9	27.3	68.2
WHITE EGG AVERAGE	3	0.0	0.8	3.5	22.2	73.5
	4	0.0	0.8	3.7	24.4	71.1

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.0	0.0	0.6	7.0	92.3
	4	0.0	0.1	1.1	7.6	91.2
HUBBARD (GOLDEN COMET)	3	0.0	0.2	0.6	7.4	91.8
	4	0.0	0.7	1.4	9.1	88.9
DEKALB (SEX-SAL-LINK-G)	3	0.0	0.0	0.5	6.8	92.7
	4	0.0	0.2	1.5	8.2	90.0
BROWN EGG AVERAGE	3	0.0	0.1	0.5	7.1	92.3
	4	0.0	0.3	1.3	8.3	90.1

TABLE 64. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (435-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	92.6	2.6	3.6	1.2	0.9	0.0
	4	90.2	2.6	4.8	2.4	1.5	0.0
ISA-BABCOCK (B300)	3	93.5	1.4	3.1	2.0	5.3	0.0
	4	93.4	3.4	2.7	0.5	2.3	0.0
HISEX (WHITE)	3	90.5	3.2	4.8	1.4	1.9	0.0
	4	90.3	2.8	5.1	1.8	0.5	0.8
H & N (NICK CHICK)	3	91.5	4.5	3.1	0.9	0.6	0.0
	4	88.7	6.2	4.0	1.1	0.0	0.0
HUBBARD (LEGHORN)	3	91.1	2.2	4.2	2.5	2.8	0.0
	4	92.8	2.8	2.8	1.6	6.1	0.0
HYLINE (W-36)	3	93.0	3.3	3.3	0.4	0.0	0.0
	4	91.2	2.8	4.8	1.2	0.0	0.0
COLONIAL (365-S)	3	93.1	3.7	2.9	0.3	1.0	0.0
	4	87.3	4.8	6.1	1.8	1.9	0.7
SHAVER (288-A)	3	95.4	1.3	2.5	0.8	2.9	1.1
	4	95.8	1.9	1.9	0.4	0.0	0.0
WHITE EGG AVERAGE	3	92.6	2.8	3.4	1.2	1.9	0.1
	4	91.2	3.4	4.0	1.4	1.5	0.2

BROWN EGG LAYERS							
HISEX (BROWN)	3	94.7	1.9	2.1	1.3	5.2	11.2
	4	94.0	1.8	3.8	0.3	4.3	13.5
HUBBARD (GOLDEN COMET)	3	96.0	1.8	1.6	0.6	7.0	19.3
	4	97.6	0.7	1.4	0.3	5.2	22.8
DEKALB (SEX-SAL-LINK-G)	3	93.7	1.0	3.2	2.1	4.4	17.0
	4	94.7	1.4	3.3	0.6	5.4	13.4
BROWN EGG AVERAGE	3	94.8	1.6	2.3	1.3	5.5	15.8
	4	95.5	1.3	2.8	0.4	5.0	16.6

TABLE 65. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	65.1	70.9	383.2	23.0	2.59	18.3
	D	64.7	69.0	380.4	21.3	2.62	17.5
ISA-BABCOCK (B300)	S	65.4	68.4	384.2	22.1	2.65	11.2
	D	62.7	67.0	366.5	21.6	2.66	10.8
HISEX (WHITE)	S	67.0	71.4	391.0	22.6	2.63	9.6
	D	65.7	70.4	384.5	22.4	2.64	12.5
H & N (NICK CHICK)	S	67.5	74.1	394.0	23.8	2.54	15.3
	D	64.2	72.5	376.9	24.2	2.61	25.4
HUBBARD (LEGHORN)	S	68.6	73.5	402.2	24.0	2.60	15.0
	D	68.5	72.3	402.7	23.2	2.67	15.0
HYLINE (W-36)	S	64.9	71.0	383.0	23.1	2.60	20.4
	D	62.6	69.5	371.6	21.4	2.53	19.6
COLONIAL (365-S)	S	60.3	66.4	350.3	19.7	2.46	20.4
	D	58.5	63.2	344.7	19.8	2.57	18.7
SHAVER (288-A)	S	65.8	69.9	384.4	21.7	2.60	10.0
	D	63.6	67.7	376.4	21.4	2.63	9.6
WHITE EGG AVERAGE	S	65.6	70.7	383.8	22.5	2.58	15.0
	D	63.8	68.9	375.3	21.9	2.61	16.1

BROWN EGG LAYERS							
HISEX (BROWN)	S	62.7	66.3	368.6	24.0	2.75	10.8
	D	56.7	63.5	332.1	24.2	2.88	27.5
HUBBARD (GOLDEN COMET)	S	59.8	66.9	350.9	24.1	2.75	21.2
	D	54.5	67.5	315.7	24.6	2.75	37.9
DEKALB (SEX-SAL-LINK-G)	S	54.7	63.4	318.7	24.6	2.88	27.1
	D	57.3	62.7	332.2	24.5	2.85	18.3
BROWN EGG AVERAGE	S	59.1	65.5	346.1	24.2	2.79	19.7
	D	56.2	64.6	326.7	24.5	2.82	27.9

TABLE 66. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	26.1	44.2	40.4	2.5	81.3
	D	25.1	41.3	38.5	2.5	81.3
ISA-BABCOCK (B300)	S	26.2	42.7	40.8	2.8	82.3
	D	25.7	41.1	38.4	3.1	81.4
HISEX (WHITE)	S	25.9	43.8	41.0	2.6	80.4
	D	26.2	43.6	40.7	2.6	81.8
H & N (NICK CHICK)	S	25.8	45.4	41.2	2.7	82.6
	D	26.3	45.3	39.9	2.8	81.4
HUBBARD (LEGHORN)	S	26.2	46.0	42.7	2.4	81.6
	D	25.8	44.6	42.1	2.4	81.0
HYLINE (W-36)	S	25.9	43.9	40.0	2.3	78.0
	D	25.7	42.7	38.3	2.4	77.9
COLONIAL (365-S)	S	25.4	39.9	36.1	2.4	79.2
	D	25.4	37.9	35.0	2.4	79.3
SHAVER (288-A)	S	25.6	42.6	40.1	2.6	81.5
	D	25.6	41.2	38.7	2.6	80.5
WHITE EGG AVERAGE	S	25.9	43.6	40.3	2.6	80.9
	D	25.7	42.2	38.9	2.6	80.6

BROWN EGG LAYERS						
HISEX (BROWN)	S	28.0	44.4	41.9	2.3	82.1
	D	28.0	42.3	37.6	2.0	78.4
HUBBARD (GOLDEN COMET)	S	27.8	44.3	39.5	2.1	82.1
	D	28.0	45.0	36.0	1.8	82.3
DEKALB (SEX-SAL-LINK-G)	S	30.2	42.3	36.3	1.9	86.3
	D	28.4	42.3	38.6	1.7	84.3
BROWN EGG AVERAGE	S	28.6	43.7	39.2	2.1	83.5
	D	28.1	43.2	37.4	1.8	81.6

TABLE 67. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	0.9	7.0	6.4	26.4	59.3
	D	1.1	9.1	9.5	32.6	47.6
ISA-BABCOCK (B300)	S	1.1	7.1	5.1	27.0	59.7
	D	1.3	7.9	7.4	29.5	54.0
HISEX (WHITE)	S	1.0	7.9	7.5	29.3	54.3
	D	0.9	6.9	6.3	28.6	57.2
H & N (NICK CHICK)	S	1.1	7.8	7.6	29.2	54.3
	D	0.6	6.8	6.5	24.3	61.9
HUBBARD (LEGHORN)	S	0.4	7.4	5.8	25.3	61.1
	D	1.2	8.0	8.3	24.1	58.5
HYLINE (W-36)	S	1.0	8.4	7.2	27.5	55.8
	D	1.3	8.4	7.3	28.3	54.7
COLONIAL (365-S)	S	1.0	9.3	9.3	30.3	50.0
	D	0.9	9.7	9.3	31.0	49.3
SHAVER (288-A)	S	1.1	8.3	10.4	30.0	50.3
	D	1.4	7.8	7.4	30.8	52.6
WHITE EGG AVERAGE	S	0.9	7.9	7.4	28.1	55.6
	D	1.1	8.1	7.7	28.6	54.5

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.3	4.5	2.2	12.1	80.9
	D	0.3	4.0	2.7	14.8	78.2
HUBBARD (GOLDEN COMET)	S	0.3	5.5	2.2	11.9	80.1
	D	0.3	5.4	2.8	11.5	80.0
DEKALB (SEX-SAL-LINK-G)	S	0.0	4.6	3.3	16.3	75.9
	D	0.0	3.4	2.2	10.4	84.0
BROWN EGG AVERAGE	S	0.2	4.8	2.5	13.4	79.0
	D	0.2	4.3	2.6	12.3	80.7

TABLE 68. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	94.1	1.6	3.9	0.4	1.8	0.0
	D	93.2	1.6	4.1	1.2	2.7	0.0
ISA-BABCOCK (B300)	S	95.8	2.4	1.4	0.4	2.1	0.0
	D	94.6	1.2	3.3	0.9	0.7	0.0
HISEX (WHITE)	S	92.4	2.3	3.9	1.4	1.9	0.0
	D	88.7	4.4	6.1	0.8	1.1	0.9
H & N (NICK CHICK)	S	93.0	4.5	1.9	0.6	1.0	0.0
	D	91.0	4.8	3.2	1.0	0.5	0.0
HUBBARD (LEGHORN)	S	95.0	1.1	3.4	0.5	1.2	0.0
	D	94.1	1.1	3.6	1.2	4.0	0.0
HYLINE (W-36)	S	95.7	1.6	2.5	0.3	1.7	0.6
	D	92.0	2.4	5.2	0.4	0.0	0.0
COLONIAL (365-S)	S	93.9	3.2	2.5	0.4	0.5	0.0
	D	90.6	4.1	5.1	0.3	1.0	0.7
SHAVER (288-A)	S	95.0	2.6	2.1	0.3	1.0	0.0
	D	96.5	0.9	2.4	0.2	2.3	1.3
WHITE EGG AVERAGE	S	94.4	2.4	2.7	0.5	1.4	0.1
	D	92.6	2.6	4.1	0.7	1.6	0.4

BROWN EGG LAYERS							
HISEX (BROWN)	S	93.2	1.8	4.5	0.6	6.0	9.5
	D	91.7	2.9	5.2	0.2	3.1	13.6
HUBBARD (GOLDEN COMET)	S	96.0	1.1	2.2	0.8	2.0	16.0
	D	95.9	0.9	2.9	0.3	2.7	21.8
DEKALB (SEX-SAL-LINK-G)	S	96.6	0.3	2.8	0.3	5.0	15.4
	D	91.9	1.4	5.4	1.3	4.8	12.6
BROWN EGG AVERAGE	S	95.2	1.1	3.2	0.5	4.3	13.6
	D	93.2	1.7	4.5	0.6	3.5	16.0

TABLE 69. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	70.3	73.8	414.1	23.4	2.64	10.8
	D	61.0	71.4	351.9	22.9	2.55	23.7
ISA-BABCOCK (B300)	S	65.9	68.0	387.6	22.5	2.71	5.8
	D	66.8	68.3	392.4	21.5	2.66	7.1
HISEX (WHITE)	S	63.4	70.6	370.6	23.0	2.63	18.7
	D	62.8	67.4	366.6	22.6	2.71	18.3
H & N (NICK CHICK)	S	68.4	73.1	401.8	24.4	2.68	14.3
	D	68.6	72.9	400.0	23.4	2.61	15.3
HUBBARD (LEGHORN)	S	67.4	71.1	397.1	24.8	2.78	10.2
	D	62.2	68.9	363.3	24.0	2.84	18.7
HYLINE (W-36)	S	65.6	71.2	382.5	22.3	2.61	17.9
	D	64.5	69.9	379.1	21.9	2.57	11.7
COLONIAL (365-S)	S	58.0	63.7	332.5	19.5	2.53	21.8
	D	58.1	64.0	336.0	19.6	2.53	18.7
SHAVER (288-A)	S	63.1	66.0	370.5	22.2	2.81	7.9
	D	63.2	66.3	370.7	22.0	2.74	9.2
WHITE EGG AVERAGE	S	65.3	69.7	381.9	22.8	2.67	13.4
	D	63.4	68.6	369.6	22.2	2.65	15.3

BROWN EGG LAYERS							
HISEX (BROWN)	S	60.6	66.6	355.5	25.2	2.87	17.1
	D	54.8	63.4	319.6	24.7	2.78	21.7
HUBBARD (GOLDEN COMET)	S	63.3	68.7	370.6	25.2	2.83	17.5
	D	56.5	67.7	333.1	25.0	2.73	31.7
DEKALB (SEX-SAL-LINK-G)	S	57.7	62.1	335.4	25.1	3.01	14.2
	D	55.2	62.5	320.2	24.5	2.88	27.1
BROWN EGG AVERAGE	S	60.5	65.8	353.9	25.2	2.90	16.2
	D	55.5	64.5	324.3	24.7	2.80	26.8

TABLE 70. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	26.3	46.1	43.9	2.5	77.7
	D	25.8	43.9	37.4	2.3	81.1
ISA-BABCOCK (B300)	S	26.1	42.4	41.0	3.1	79.0
	D	25.9	42.2	41.2	3.0	80.2
HISEX (WHITE)	S	26.1	43.8	39.1	2.6	79.0
	D	26.2	41.9	38.9	2.8	79.4
H & N (NICK CHICK)	S	26.0	45.3	42.2	2.9	83.1
	D	25.8	44.8	42.0	2.7	81.5
HUBBARD (LEGHORN)	S	26.1	44.2	41.8	2.4	79.9
	D	26.3	43.4	39.0	2.5	79.2
HYLINE (W-36)	S	25.8	43.7	40.1	2.3	76.4
	D	25.8	43.1	39.6	2.4	75.0
COLONIAL (365-S)	S	25.0	37.8	34.4	2.6	78.5
	D	25.4	38.5	34.7	2.8	78.9
SHAVER (288-A)	S	26.3	41.2	39.3	2.7	77.1
	D	26.1	41.1	39.1	2.7	79.8
WHITE EGG AVERAGE	S	26.0	43.1	40.2	2.6	78.8
	D	25.9	42.3	39.0	2.7	79.4

BROWN EGG LAYERS						
HISEX (BROWN)	S	28.1	44.7	40.6	2.1	78.6
	D	28.7	43.6	37.6	2.3	82.0
HUBBARD (GOLDEN COMET)	S	28.2	45.9	42.2	1.9	80.0
	D	27.4	44.2	36.7	2.1	81.9
DEKALB (SEX-SAL-LINK-G)	S	28.6	42.2	39.1	1.8	82.9
	D	28.0	41.8	36.8	2.1	83.4
BROWN EGG AVERAGE	S	28.3	44.3	40.7	2.0	80.5
	D	28.0	43.2	37.0	2.2	82.4

TABLE 71. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	0.7	7.0	6.3	24.9	61.2
	D	0.7	7.6	7.3	31.5	52.9
ISA-BABCOCK (B300)	S	0.9	7.7	5.6	23.4	62.4
	D	1.5	7.2	5.8	25.4	60.1
HISEX (WHITE)	S	1.1	6.8	6.2	24.2	61.6
	D	1.1	7.7	6.0	24.6	60.6
H & N (NICK CHICK)	S	0.8	7.8	5.7	26.1	59.6
	D	0.7	8.0	8.5	30.0	52.8
HUBBARD (LEGHORN)	S	1.0	7.6	5.8	26.2	59.4
	D	1.2	6.9	5.6	20.9	65.4
HYLINE (W-36)	S	0.6	8.2	7.9	27.4	55.9
	D	0.8	8.4	6.6	27.2	57.1
COLONIAL (365-S)	S	1.4	12.7	12.9	32.2	40.7
	D	0.7	10.2	10.7	29.9	48.6
SHAVER (288-A)	S	0.7	7.1	4.7	24.7	62.7
	D	0.8	7.2	6.0	27.1	59.0
WHITE EGG AVERAGE	S	0.9	8.1	6.9	26.2	57.9
	D	0.9	7.9	7.0	27.1	57.1

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.2	4.2	2.0	12.3	81.2
	D	0.0	3.0	3.0	9.5	84.5
HUBBARD (GOLDEN COMET)	S	0.2	4.8	2.3	10.6	82.1
	D	0.4	5.4	2.7	16.2	75.4
DEKALB (SEX-SAL-LINK-G)	S	0.0	2.9	1.6	10.6	84.9
	D	0.9	3.5	2.8	12.4	80.4
BROWN EGG AVERAGE	S	0.1	4.0	2.0	11.2	82.7
	D	0.4	4.0	2.8	12.7	80.1

TABLE 72. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	93.0	2.4	3.7	0.9	0.0	0.0
	D	93.6	1.9	3.8	0.7	0.0	0.0
ISA-BABCOCK (B300)	S	96.0	1.7	1.6	0.6	0.0	0.0
	D	93.3	3.1	2.6	1.0	3.4	0.0
HISEX (WHITE)	S	90.0	3.7	5.5	0.8	3.6	0.5
	D	91.2	3.5	3.7	1.5	1.0	0.0
H & N (NICK CHICK)	S	93.7	4.2	2.1	0.0	1.0	0.0
	D	94.3	2.7	2.7	0.2	0.6	0.0
HUBBARD (LEGHORN)	S	96.3	1.0	1.8	1.0	2.0	1.0
	D	92.1	2.8	3.1	2.1	4.3	0.0
HYLINE (W-36)	S	95.9	1.4	2.7	0.0	0.7	0.0
	D	93.4	2.7	3.0	0.9	0.0	0.0
COLONIAL (365-S)	S	94.6	2.5	2.5	0.3	1.0	0.6
	D	93.6	2.6	3.2	0.5	0.4	0.0
SHAVER (288-A)	S	94.2	2.1	2.8	1.0	1.0	0.0
	D	96.1	1.5	1.8	0.6	1.4	0.0
WHITE EGG AVERAGE	S	94.2	2.4	2.8	0.6	1.2	0.3
	D	93.5	2.6	3.0	0.9	1.4	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	S	95.4	0.6	3.1	0.8	0.8	15.0
	D	95.4	1.2	2.7	0.8	1.3	9.9
HUBBARD (GOLDEN COMET)	S	95.5	1.9	2.1	0.4	1.0	10.8
	D	97.6	1.1	0.9	0.4	5.0	17.2
DEKALB (SEX-SAL-LINK-G)	S	95.4	0.8	2.9	0.9	4.2	10.8
	D	95.3	1.0	2.7	1.1	1.6	10.7
BROWN EGG AVERAGE	S	95.4	1.1	2.7	0.7	2.0	12.2
	D	96.1	1.1	2.1	0.8	2.6	12.6

TABLE 73. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	67.2	72.7	390.6	22.2	2.65	14.2
	D	62.9	71.0	370.0	22.9	2.65	18.3
ISA-BABCOCK (B300)	S	61.8	67.5	360.1	22.2	2.72	13.3
	D	58.8	66.8	346.1	22.2	2.78	20.8
HISEX (WHITE)	S	68.5	71.9	400.6	21.7	2.55	13.7
	D	68.0	72.2	397.0	21.0	2.50	15.4
H & N (NICK CHICK)	S	64.3	72.6	372.7	22.2	2.54	17.6
	D	61.1	69.4	355.3	22.3	2.72	25.0
HUBBARD (LEGHORN)	S	71.1	74.1	417.2	23.9	2.58	10.4
	D	72.7	74.7	426.5	23.9	2.68	8.1
HYLINE (W-36)	S	68.2	71.1	401.1	20.6	2.51	12.1
	D	66.6	69.7	387.9	20.2	2.52	10.8
COLONIAL (365-S)	S	56.3	62.5	331.2	17.8	2.48	19.6
	D	58.7	62.4	345.9	18.5	2.62	14.6
SHAVER (288-A)	S	63.1	66.2	370.7	20.2	2.69	11.7
	D	66.9	68.9	391.7	20.3	2.60	3.7
WHITE EGG AVERAGE	S	65.1	69.8	379.9	21.3	2.59	14.1
	D	64.5	69.4	377.2	21.4	2.63	14.6

BROWN EGG LAYERS							
HISEX (BROWN)	S	58.2	64.9	342.1	24.2	2.89	20.8
	D	52.2	60.2	305.1	22.6	2.95	27.5
HUBBARD (GOLDEN COMET)	S	56.9	64.9	330.9	23.8	2.87	21.7
	D	61.3	66.0	355.4	24.0	2.96	15.0
DEKALB (SEX-SAL-LINK-G)	S	58.0	65.1	338.4	24.0	3.02	23.3
	D	57.6	64.4	333.0	24.5	2.95	31.2
BROWN EGG AVERAGE	S	57.7	65.0	337.1	24.0	2.92	21.9
	D	57.0	63.5	331.2	23.7	2.95	24.6

TABLE 74. EFFECTS OF CAGE TYPE ON PERFORMANCE OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	24.8	43.0	39.6	2.1	81.0
	D	24.9	42.1	37.1	2.1	81.4
ISA-BABCOCK (B300)	S	25.5	41.1	37.5	3.0	81.1
	D	25.4	40.4	35.4	2.7	79.8
HISEX (WHITE)	S	25.3	42.9	40.8	2.5	78.9
	D	25.2	42.9	40.2	2.3	79.5
H & N (NICK CHICK)	S	25.0	43.1	38.0	2.9	80.6
	D	24.7	40.8	35.7	2.5	80.0
HUBBARD (LEGHORN)	S	25.6	45.1	43.2	2.2	82.1
	D	25.5	45.2	44.0	2.3	79.1
HYLINE (W-36)	S	25.2	42.6	40.7	2.2	77.4
	D	24.9	41.2	39.3	2.1	77.9
COLONIAL (365-S)	S	24.2	35.8	32.0	2.5	80.8
	D	24.2	35.5	33.3	2.2	77.5
SHAVER (288-A)	S	24.6	38.7	36.8	2.2	77.0
	D	24.6	40.2	39.0	2.5	79.7
WHITE EGG AVERAGE	S	25.0	41.5	38.6	2.4	79.9
	D	24.9	41.0	38.0	2.3	79.4

BROWN EGG LAYERS						
HISEX (BROWN)	S	26.6	41.0	36.6	1.9	79.3
	D	27.3	38.9	33.5	1.8	79.9
HUBBARD (GOLDEN COMET)	S	27.0	41.7	36.4	1.9	82.4
	D	26.6	41.8	38.7	1.9	81.9
DEKALB (SEX-SAL-LINK-G)	S	26.1	40.3	35.8	1.6	81.6
	D	26.7	41.0	36.5	1.6	81.3
BROWN EGG AVERAGE	S	26.6	41.0	36.3	1.8	81.1
	D	26.9	40.6	36.2	1.8	81.0

TABLE 75. EFFECTS OF CAGE TYPE ON EGG SIZE OF ENTRIES IN
LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	S	1.3	11.9	14.0	29.6	43.2
	D	1.7	9.9	13.7	32.9	41.8
ISA-BABCOCK (B300)	S	1.8	10.2	7.0	27.0	54.1
	D	1.9	8.5	8.5	31.8	49.2
HISEX (WHITE)	S	1.5	9.3	10.6	31.3	47.3
	D	1.5	9.5	10.0	34.2	44.7
H & N (NICK CHICK)	S	1.3	10.4	12.5	35.6	40.2
	D	1.6	12.6	11.7	31.9	42.3
HUBBARD (LEGHORN)	S	1.0	7.7	7.9	29.5	53.9
	D	1.3	8.3	9.2	28.5	52.9
HYLINE (W-36)	S	0.7	11.1	12.1	30.7	45.4
	D	1.3	11.6	11.4	31.5	44.2
COLONIAL (365-S)	S	2.2	14.0	17.2	34.5	32.1
	D	2.5	14.1	16.1	37.8	29.6
SHAVER (288-A)	S	1.6	9.6	16.7	35.9	36.2
	D	1.6	10.6	14.5	38.4	35.0
WHITE EGG AVERAGE	S	1.4	10.5	12.3	31.8	44.0
	D	1.7	10.6	11.9	33.4	42.5

BROWN EGG LAYERS						
HISEX (BROWN)	S	0.3	6.0	6.6	22.7	64.4
	D	0.2	5.6	4.3	17.1	72.9
HUBBARD (GOLDEN COMET)	S	0.3	6.4	5.1	18.1	70.1
	D	0.5	6.7	5.1	21.7	66.0
DEKALB (SEX-SAL-LINK-G)	S	0.9	6.2	6.6	25.7	60.5
	D	0.7	5.7	6.0	20.7	66.9
BROWN EGG AVERAGE	S	0.5	6.2	6.1	22.2	65.0
	D	0.5	6.0	5.1	19.8	68.6

TABLE 76. EFFECTS OF CAGE TYPE ON EGG QUALITY OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	S	94.7	1.7	2.9	0.8	1.0	0.0
	D	92.7	2.6	3.5	1.1	0.0	0.0
ISA-BABCOCK (B300)	S	93.8	0.9	3.9	1.4	2.7	0.0
	D	94.9	2.1	2.3	0.6	4.5	0.0
HISEX (WHITE)	S	94.2	1.3	4.1	0.4	1.5	0.0
	D	93.2	1.0	4.9	0.8	1.6	0.0
H & N (NICK CHICK)	S	94.5	2.2	2.5	0.7	1.4	0.5
	D	94.0	3.8	1.8	0.4	0.0	0.0
HUBBARD (LEGHORN)	S	93.0	1.1	4.5	1.3	5.8	0.0
	D	95.4	1.5	2.6	0.5	3.1	0.0
HYLINE (W-36)	S	95.1	1.5	3.2	0.2	1.0	0.0
	D	95.8	2.1	2.1	0.0	0.0	0.0
COLONIAL (365-S)	S	95.8	1.4	2.5	0.3	0.0	0.0
	D	95.1	2.6	1.3	1.1	2.6	0.0
SHAVER (288-A)	S	94.4	2.0	3.0	0.6	2.0	0.5
	D	95.7	1.4	2.5	0.4	0.8	0.0
WHITE EGG AVERAGE	S	94.4	1.5	3.3	0.7	1.9	0.1
	D	94.6	2.1	2.6	0.6	1.6	0.0

BROWN EGG LAYERS							
HISEX (BROWN)	S	96.0	0.9	2.7	0.4	5.2	11.5
	D	94.4	1.7	3.3	0.5	7.2	12.2
HUBBARD (GOLDEN COMET)	S	95.1	1.0	3.5	0.3	8.3	15.9
	D	96.6	0.7	2.3	0.4	7.5	16.7
DEKALB (SEX-SAL-LINK-G)	S	95.9	1.5	2.3	0.3	4.8	8.5
	D	95.4	1.1	3.0	0.4	6.9	22.0
BROWN EGG AVERAGE	S	95.7	1.1	2.9	0.3	6.1	11.9
	D	95.5	1.2	2.9	0.5	7.2	17.0

TABLE 77. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	64.4	69.3	378.7	22.1	2.57	18.3
	4	65.3	70.7	384.2	22.1	2.64	17.5
ISA-BABCOCK (B300)	3	65.7	67.8	386.4	22.3	2.72	8.3
	4	62.4	67.6	367.1	21.5	2.59	13.7
HISEX (WHITE)	3	69.4	73.0	408.2	23.0	2.61	8.3
	4	63.3	68.8	372.4	22.1	2.66	13.7
H & N (NICK CHICK)	3	69.7	74.2	410.0	23.9	2.54	16.7
	4	62.0	72.4	365.8	24.2	2.61	24.0
HUBBARD (LEGHORN)	3	70.3	73.6	413.6	23.7	2.59	11.7
	4	66.7	72.2	392.2	23.5	2.67	18.3
HYLINE (W-36)	3	60.7	71.2	357.0	23.4	2.57	30.0
	4	66.8	69.3	392.5	21.1	2.56	10.0
COLONIAL (365-S)	3	61.5	66.8	364.2	20.7	2.51	19.2
	4	57.2	62.7	336.5	18.8	2.52	20.0
SHAVER (288-A)	3	64.9	70.4	381.5	22.0	2.55	13.3
	4	64.6	67.2	379.6	21.2	2.67	6.2
WHITE EGG AVERAGE	3	65.8	70.8	387.4	22.6	2.58	15.7
	4	63.5	68.9	373.6	21.8	2.61	15.4

BROWN EGG LAYERS							
HISEX (BROWN)	3	60.8	65.0	357.7	24.4	2.84	13.3
	4	58.6	64.9	344.9	23.9	2.79	25.0
HUBBARD (GOLDEN COMET)	3	60.5	68.0	355.8	24.9	2.74	21.7
	4	53.8	66.4	316.5	23.7	2.75	37.5
DEKALB (SEX-SAL-LINK-G)	3	60.5	64.0	355.9	24.2	2.87	11.7
	4	51.5	62.0	302.6	24.9	2.86	33.7
BROWN EGG AVERAGE	3	60.6	65.7	356.5	24.5	2.81	15.6
	4	54.6	64.4	321.3	24.2	2.80	32.1

TABLE 78. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	25.7	42.4	39.3	2.6	82.2
	4	25.6	43.1	39.7	2.4	80.4
ISA-BABCOCK (B300)	3	26.2	42.3	41.0	2.9	82.2
	4	25.8	41.5	38.2	3.0	81.6
HISEX (WHITE)	3	26.2	45.3	43.0	2.6	80.6
	4	25.9	42.1	38.7	2.5	81.7
H & N (NICK CHICK)	3	26.2	46.3	43.4	2.9	81.7
	4	25.9	44.5	37.8	2.7	82.3
HUBBARD (LEGHORN)	3	26.5	46.5	44.4	2.3	81.5
	4	25.5	44.0	40.5	2.5	81.2
HYLINE (W-36)	3	25.9	44.0	37.3	2.4	78.4
	4	25.7	42.6	41.0	2.3	77.6
COLONIAL (365-S)	3	25.4	40.1	36.7	2.4	79.1
	4	25.5	37.8	34.3	2.4	79.4
SHAVER (288-A)	3	25.3	42.5	39.0	2.5	80.7
	4	25.8	41.4	39.7	2.6	81.3
WHITE EGG AVERAGE	3	25.9	43.7	40.5	2.6	80.8
	4	25.7	42.1	38.7	2.6	80.7

BROWN EGG LAYERS						
HISEX (BROWN)	3	28.2	43.5	40.6	2.0	79.0
	4	27.9	43.1	38.9	2.2	81.5
HUBBARD (GOLDEN COMET)	3	28.1	45.5	40.4	1.9	81.0
	4	27.7	43.8	35.2	2.0	83.3
DEKALB (SEX-SAL-LINK-G)	3	27.9	42.9	40.5	1.9	85.7
	4	30.7	41.7	34.4	1.7	84.9
BROWN EGG AVERAGE	3	28.1	44.0	40.5	1.9	81.9
	4	28.7	42.9	36.2	2.0	83.2

TABLE 79. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	1.2	7.0	6.1	31.6	54.1
	4	0.8	9.1	9.8	27.4	52.9
ISA-BABCOCK (B300)	3	1.0	7.1	5.9	27.9	58.0
	4	1.4	7.8	6.5	28.6	55.7
HISEX (WHITE)	3	0.8	7.4	7.1	28.0	56.7
	4	1.1	7.4	6.7	30.0	54.9
H & N (NICK CHICK)	3	1.1	6.8	7.1	24.8	60.2
	4	0.6	7.8	7.0	28.7	56.0
HUBBARD (LEGHORN)	3	0.7	6.8	5.2	19.4	68.0
	4	0.9	8.6	8.9	30.0	51.6
HYLINE (W-36)	3	1.7	8.0	6.8	25.9	57.6
	4	0.6	8.9	7.7	29.9	52.9
COLONIAL (365-S)	3	0.8	9.3	9.1	31.2	49.6
	4	1.1	9.6	9.5	30.1	49.7
SHAVER (288-A)	3	1.1	8.8	10.4	32.3	47.3
	4	1.3	7.3	7.4	28.5	55.5
WHITE EGG AVERAGE	3	1.0	7.7	7.2	27.6	56.4
	4	1.0	8.3	7.9	29.1	53.6

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.4	4.3	2.5	12.6	80.1
	4	0.2	4.1	2.3	14.3	79.0
HUBBARD (GOLDEN COMET)	3	0.2	5.3	1.9	9.3	83.3
	4	0.3	5.6	3.2	14.2	76.7
DEKALB (SEX-SAL-LINK-G)	3	0.0	5.0	2.8	13.4	78.8
	4	0.1	3.0	2.7	13.3	81.0
BROWN EGG AVERAGE	3	0.2	4.9	2.4	11.7	80.8
	4	0.2	4.2	2.7	14.0	78.9

TABLE 80. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN FLUSH WASTE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	94.7	1.2	3.4	0.6	2.3	0.0
	4	92.5	2.0	4.6	0.9	2.2	0.0
ISA-BABCOCK (B300)	3	95.6	1.2	2.1	1.0	1.2	0.0
	4	94.8	2.5	2.5	0.2	1.6	0.0
HISEX (WHITE)	3	89.0	4.3	5.0	1.7	2.6	0.0
	4	92.2	2.4	4.9	0.5	0.4	0.9
H & N (NICK CHICK)	3	92.1	4.5	2.4	0.9	0.0	0.0
	4	91.9	4.8	2.8	0.7	1.5	0.0
HUBBARD (LEGHORN)	3	94.0	1.6	3.7	0.7	1.3	0.0
	4	95.2	0.6	3.3	0.9	4.0	0.0
HYLINE (W-36)	3	93.9	2.1	3.6	0.3	1.7	0.0
	4	93.7	1.9	4.1	0.3	0.0	0.6
COLONIAL (365-S)	3	93.2	2.8	3.6	0.4	0.5	0.0
	4	91.2	4.4	4.1	0.3	1.0	0.7
SHAVER (288-A)	3	96.6	1.6	1.5	0.3	3.3	1.3
	4	95.0	1.9	3.0	0.1	0.0	0.0
WHITE EGG AVERAGE	3	93.6	2.4	3.2	0.7	1.6	0.2
	4	93.3	2.6	3.6	0.5	1.4	0.3

BROWN EGG LAYERS							
HISEX (BROWN)	3	92.5	2.5	4.5	0.5	4.0	11.3
	4	92.4	2.2	5.1	0.3	5.1	11.9
HUBBARD (GOLDEN COMET)	3	95.7	1.4	2.4	0.5	3.3	17.7
	4	96.2	0.6	2.7	0.6	1.4	20.1
DEKALB (SEX-SAL-LINK-G)	3	93.8	0.9	4.3	1.0	5.2	11.7
	4	94.6	0.9	4.0	0.6	4.6	16.3
BROWN EGG AVERAGE	3	94.0	1.6	3.7	0.7	4.2	13.6
	4	94.4	1.2	3.9	0.5	3.7	16.1

TABLE 81. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	69.2	74.6	407.1	23.2	2.54	13.3
	4	62.1	70.7	364.9	23.1	2.66	21.2
ISA-BABCOCK (B300)	3	66.8	68.2	392.5	22.4	2.72	6.7
	4	66.0	68.0	388.1	21.5	2.66	6.2
HISEX (WHITE)	3	65.9	71.3	387.4	23.1	2.60	18.3
	4	60.3	66.8	354.5	22.4	2.74	18.7
H & N (NICK CHICK)	3	70.5	74.5	414.8	24.2	2.62	13.0
	4	66.4	71.5	390.6	23.7	2.67	16.7
HUBBARD (LEGHORN)	3	65.6	70.0	385.4	25.0	2.82	12.4
	4	64.0	70.0	374.7	23.9	2.80	16.5
HYLINE (W-36)	3	67.0	72.9	394.2	22.3	2.54	13.3
	4	63.1	68.3	370.8	21.9	2.64	16.2
COLONIAL (365-S)	3	65.1	67.6	382.8	19.8	2.44	10.6
	4	51.0	60.0	299.7	19.3	2.63	30.0
SHAVER (288-A)	3	64.0	67.1	376.6	21.9	2.72	8.3
	4	62.3	65.3	366.1	22.4	2.83	8.7
WHITE EGG AVERAGE	3	66.8	70.8	392.4	22.7	2.62	12.0
	4	61.9	67.6	363.3	22.3	2.70	16.8

BROWN EGG LAYERS							
HISEX (BROWN)	3	61.1	68.4	361.5	25.8	2.75	20.0
	4	54.3	61.6	319.6	24.2	2.90	18.7
HUBBARD (GOLDEN COMET)	3	60.3	68.3	354.5	25.3	2.80	21.7
	4	59.5	68.1	349.9	24.9	2.76	27.5
DEKALB (SEX-SAL-LINK-G)	3	61.6	65.6	361.9	25.1	2.85	15.0
	4	51.4	59.0	302.2	24.5	3.04	26.3
BROWN EGG AVERAGE	3	61.0	67.4	359.3	25.4	2.80	18.9
	4	55.1	62.9	323.9	24.5	2.89	24.2

TABLE 82. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	26.1	46.2	42.9	2.4	80.2
	4	26.0	43.7	38.3	2.4	78.6
ISA-BABCOCK (B300)	3	26.0	42.3	41.3	3.0	79.1
	4	26.0	42.3	41.0	3.1	80.1
HISEX (WHITE)	3	26.2	44.4	40.8	2.7	78.3
	4	26.1	41.3	37.2	2.7	80.1
H & N (NICK CHICK)	3	25.9	46.0	43.5	2.9	82.5
	4	25.8	44.0	40.8	2.8	82.1
HUBBARD (LEGHORN)	3	26.4	44.1	41.2	2.5	79.5
	4	26.0	43.5	39.6	2.5	79.7
HYLINE (W-36)	3	25.8	44.8	41.1	2.4	75.3
	4	25.8	41.9	38.5	2.3	76.1
COLONIAL (365-S)	3	25.2	40.5	38.9	2.5	79.1
	4	25.2	35.8	30.2	2.9	78.3
SHAVER (288-A)	3	26.1	41.7	39.8	2.6	78.4
	4	26.2	40.6	38.7	2.9	78.5
WHITE EGG AVERAGE	3	26.0	43.7	41.2	2.6	79.1
	4	25.9	41.7	38.0	2.7	79.2

BROWN EGG LAYERS						
HISEX (BROWN)	3	28.3	46.2	41.1	2.1	81.6
	4	28.5	42.1	37.0	2.2	79.0
HUBBARD (GOLDEN COMET)	3	28.0	45.3	40.0	2.0	80.7
	4	27.6	44.8	39.0	2.1	81.2
DEKALB (SEX-SAL-LINK-G)	3	28.1	44.0	41.2	1.8	82.6
	4	28.5	40.1	34.7	2.1	83.7
BROWN EGG AVERAGE	3	28.1	45.2	40.8	2.0	81.6
	4	28.2	42.3	36.9	2.1	81.3

TABLE 83. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	0.7	7.2	7.3	27.8	56.9
	4	0.6	7.4	6.3	28.5	57.2
ISA-BABCOCK (B300)	3	1.2	7.0	5.8	26.1	59.9
	4	1.2	7.9	5.6	22.7	62.6
HISEX (WHITE)	3	1.2	6.8	6.1	24.7	61.2
	4	0.9	7.7	6.2	24.1	61.1
H & N (NICK CHICK)	3	0.7	8.0	7.6	26.6	57.0
	4	0.9	7.8	6.6	29.4	55.4
HUBBARD (LEGHORN)	3	1.1	6.7	5.3	23.3	63.6
	4	1.1	7.8	6.1	23.8	61.2
HYLINE (W-36)	3	0.9	7.6	7.5	26.4	57.5
	4	0.5	8.9	7.0	28.2	55.4
COLONIAL (365-S)	3	1.2	11.1	11.8	29.6	46.4
	4	0.9	11.8	11.8	32.5	42.9
SHAVER (288-A)	3	0.7	7.4	5.4	25.7	60.9
	4	0.8	6.9	5.3	26.1	60.9
WHITE EGG AVERAGE	3	1.0	7.7	7.1	26.3	57.9
	4	0.9	8.3	6.9	26.9	57.1

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.2	3.7	2.3	10.7	83.0
	4	0.0	3.5	2.6	11.1	82.7
HUBBARD (GOLDEN COMET)	3	0.3	5.0	2.5	11.5	80.7
	4	0.3	5.2	2.4	15.4	76.8
DEKALB (SEX-SAL-LINK-G)	3	0.9	3.2	2.4	12.7	80.8
	4	0.0	3.3	1.9	10.3	84.5
BROWN EGG AVERAGE	3	0.5	4.0	2.4	11.6	81.5
	4	0.1	4.0	2.3	12.3	81.3

TABLE 84. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN HIGH RISE HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	93.6	2.6	3.5	0.3	0.0	0.0
	4	93.1	1.7	4.0	1.2	0.0	0.0
ISA-BABCOCK (B300)	3	95.3	2.1	1.7	0.9	1.9	0.0
	4	94.0	2.8	2.5	0.7	1.5	0.0
HISEX (WHITE)	3	90.0	3.7	5.3	1.0	1.0	0.0
	4	91.3	3.5	3.9	1.3	3.6	0.5
H & N (NICK CHICK)	3	93.4	4.1	2.5	0.0	0.6	0.0
	4	94.6	2.8	2.3	0.2	1.0	0.0
HUBBARD (LEGHORN)	3	93.6	1.7	2.7	1.9	3.1	0.0
	4	94.7	2.0	2.2	1.1	3.1	1.0
HYLINE (W-36)	3	94.8	2.0	3.0	0.1	0.0	0.0
	4	94.4	2.1	2.7	0.8	0.7	0.0
COLONIAL (365-S)	3	94.9	2.3	2.7	0.1	1.0	0.0
	4	93.4	2.9	3.0	0.7	0.4	0.6
SHAVER (288-A)	3	95.2	1.7	2.4	0.7	2.0	0.0
	4	95.1	1.8	2.1	0.9	0.4	0.0
WHITE EGG AVERAGE	3	93.8	2.5	3.0	0.6	1.2	0.0
	4	93.8	2.4	2.8	0.9	1.4	0.3

BROWN EGG LAYERS							
HISEX (BROWN)	3	95.8	0.7	2.6	1.0	1.3	10.8
	4	95.0	1.1	3.2	0.7	0.8	14.1
HUBBARD (GOLDEN COMET)	3	96.1	1.5	1.7	0.6	4.5	11.7
	4	97.0	1.6	1.3	0.2	1.5	16.3
DEKALB (SEX-SAL-LINK-G)	3	95.2	1.0	2.1	1.7	1.8	8.8
	4	95.4	0.9	3.5	0.2	3.9	12.7
BROWN EGG AVERAGE	3	95.7	1.0	2.2	1.1	2.5	10.4
	4	95.8	1.2	2.7	0.4	2.1	14.4

TABLE 85. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	69.5	73.6	408.9	22.3	2.58	8.3
	4	60.6	70.2	357.2	22.7	2.72	24.2
ISA-BABCOCK (B300)	3	62.2	69.0	365.8	22.8	2.79	16.7
	4	58.4	65.3	343.6	21.6	2.71	17.5
HISEX (WHITE)	3	71.2	74.0	418.7	21.5	2.55	11.7
	4	65.3	70.1	383.9	21.1	2.50	17.5
H & N (NICK CHICK)	3	68.1	73.2	401.0	23.0	2.58	16.2
	4	57.3	68.9	337.1	21.6	2.68	26.4
HUBBARD (LEGHORN)	3	73.6	75.2	433.6	24.3	2.67	8.1
	4	70.2	73.6	412.9	23.4	2.59	10.4
HYLINE (W-36)	3	69.6	72.0	409.0	20.4	2.47	11.7
	4	65.2	68.8	383.6	20.4	2.57	11.2
COLONIAL (365-S)	3	57.0	63.2	334.9	18.6	2.56	21.7
	4	58.0	61.6	341.3	17.6	2.54	12.5
SHAVER (288-A)	3	66.4	68.2	390.7	20.3	2.63	6.7
	4	63.6	66.9	374.0	20.2	2.66	8.7
WHITE EGG AVERAGE	3	67.2	71.0	394.5	21.7	2.60	12.6
	4	62.3	68.2	366.5	21.1	2.62	16.1

BROWN EGG LAYERS							
HISEX (BROWN)	3	56.5	65.9	332.3	24.4	2.79	28.3
	4	53.9	59.3	317.0	22.4	3.06	20.0
HUBBARD (GOLDEN COMET)	3	64.3	66.6	378.0	23.6	2.86	6.7
	4	53.9	64.3	317.0	24.2	2.97	30.0
DEKALB (SEX-SAL-LINK-G)	3	62.6	67.6	367.8	23.8	2.80	28.3
	4	53.0	61.9	311.7	24.8	3.18	26.3
BROWN EGG AVERAGE	3	61.1	66.7	359.4	23.9	2.82	21.1
	4	53.6	61.8	315.2	23.8	3.07	25.4

TABLE 86. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	24.8	43.5	41.0	2.3	80.9
	4	24.9	41.5	35.7	2.0	81.5
ISA-BABCOCK (B300)	3	25.3	41.8	37.5	2.9	81.5
	4	25.6	39.7	35.4	2.8	79.3
HISEX (WHITE)	3	25.1	44.0	42.3	2.4	79.1
	4	25.3	41.8	38.8	2.5	79.4
H & N (NICK CHICK)	3	24.9	43.3	40.1	2.9	81.1
	4	24.8	40.6	33.5	2.5	79.4
HUBBARD (LEGHORN)	3	25.7	45.8	44.9	2.3	81.0
	4	25.4	44.5	42.3	2.2	80.2
HYLINE (W-36)	3	25.0	42.7	41.1	2.1	77.3
	4	25.1	41.1	38.9	2.2	78.0
COLONIAL (365-S)	3	24.4	36.4	32.6	2.3	78.7
	4	24.1	34.8	32.7	2.4	79.6
SHAVER (288-A)	3	24.6	39.7	38.7	2.4	77.3
	4	24.7	39.1	37.2	2.2	79.4
WHITE EGG AVERAGE	3	25.0	42.1	39.8	2.4	79.6
	4	25.0	40.4	36.8	2.3	79.6

BROWN EGG LAYERS						
HISEX (BROWN)	3	27.0	42.1	35.9	1.9	79.5
	4	26.9	37.8	34.2	1.9	79.6
HUBBARD (GOLDEN COMET)	3	27.2	43.2	41.6	1.9	83.0
	4	26.4	40.3	33.5	1.8	81.3
DEKALB (SEX-SAL-LINK-G)	3	26.6	42.9	39.6	1.6	81.6
	4	26.2	38.4	32.7	1.6	81.4
BROWN EGG AVERAGE	3	26.9	42.7	39.0	1.8	81.4
	4	26.5	38.8	33.5	1.8	80.8

TABLE 87. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	2.0	11.2	14.2	29.4	43.1
	4	1.0	10.5	13.4	33.1	42.0
ISA-BABCOCK (B300)	3	2.1	10.0	7.4	29.0	51.5
	4	1.6	8.7	8.1	29.9	51.8
HISEX (WHITE)	3	1.4	9.2	10.3	34.2	44.9
	4	1.6	9.6	10.3	31.3	47.2
H & N (NICK CHICK)	3	1.2	11.7	10.2	34.9	41.9
	4	1.6	11.3	14.0	32.5	40.6
HUBBARD (LEGHORN)	3	0.8	7.6	8.0	27.8	55.8
	4	1.4	8.5	9.1	30.2	50.9
HYLINE (W-36)	3	1.1	10.7	11.4	31.9	44.9
	4	0.9	12.1	12.0	30.2	44.8
COLONIAL (365-S)	3	2.2	12.4	15.5	36.5	33.4
	4	2.4	15.6	17.8	35.8	28.3
SHAVER (288-A)	3	1.6	10.5	14.8	38.2	34.9
	4	1.6	9.6	16.5	36.1	36.3
WHITE EGG AVERAGE	3	1.6	10.4	11.5	32.8	43.8
	4	1.5	10.7	12.7	32.4	42.7

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.2	5.5	4.4	19.4	70.5
	4	0.3	6.1	6.5	20.4	66.7
HUBBARD (GOLDEN COMET)	3	0.3	6.0	3.0	17.8	72.8
	4	0.5	7.1	7.2	22.0	63.2
DEKALB (SEX-SAL-LINK-G)	3	0.9	6.2	4.6	22.8	65.6
	4	0.7	5.7	8.0	23.7	61.9
BROWN EGG AVERAGE	3	0.5	5.9	4.0	20.0	69.7
	4	0.5	6.3	7.2	22.0	63.9

TABLE 88. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN LIGHT AND AIR CONTROLLED HOUSING, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	94.4	2.0	2.5	1.1	1.0	0.0
	4	93.0	2.3	3.9	0.9	0.0	0.0
ISA-BABCOCK (B300)	3	95.4	0.8	2.2	1.5	5.6	0.0
	4	93.3	2.2	4.0	0.6	1.5	0.0
HISEX (WHITE)	3	93.8	1.2	4.4	0.6	1.0	0.0
	4	93.7	1.1	4.6	0.6	2.0	0.0
H & N (NICK CHICK)	3	95.0	2.2	1.8	0.9	1.4	0.0
	4	93.5	3.9	2.5	0.2	0.0	0.5
HUBBARD (LEGHORN)	3	93.9	1.4	3.4	1.3	5.0	0.0
	4	94.5	1.2	3.7	0.5	3.8	0.0
HYLINE (W-36)	3	96.4	1.6	2.0	0.0	0.0	0.0
	4	94.5	2.0	3.3	0.2	1.0	0.0
COLONIAL (365-S)	3	96.2	1.5	1.8	0.5	1.1	0.0
	4	94.7	2.5	2.1	0.8	1.5	0.0
SHAVER (288-A)	3	96.2	1.5	1.9	0.4	1.0	0.0
	4	94.0	1.9	3.5	0.6	1.9	0.5
WHITE EGG AVERAGE	3	95.2	1.5	2.5	0.8	2.0	0.0
	4	93.9	2.1	3.4	0.6	1.5	0.1

BROWN EGG LAYERS							
HISEX (BROWN)	3	95.9	1.2	2.6	0.4	4.3	13.3
	4	94.6	1.4	3.5	0.5	8.1	10.4
HUBBARD (GOLDEN COMET)	3	96.4	0.7	2.7	0.2	7.1	15.3
	4	95.3	1.0	3.2	0.5	8.7	17.3
DEKALB (SEX-SAL-LINK-G)	3	95.3	1.4	2.6	0.6	6.2	19.5
	4	96.0	1.2	2.6	0.2	5.6	11.0
BROWN EGG AVERAGE	3	95.9	1.1	2.6	0.4	5.9	16.0
	4	95.3	1.2	3.1	0.4	7.4	12.9

TABLE 89. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION		EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)
		HEN HOUSED (%)	HEN DAY (%)				

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	68.8	73.0	404.5	22.7	2.59	12.2
	4	66.3	71.9	389.6	23.0	2.66	16.7
ISA-BABCOCK (B300)	3	65.8	67.8	386.6	22.6	2.77	7.8
	4	63.0	68.1	370.3	21.9	2.62	12.5
HISEX (WHITE)	3	69.3	73.7	407.2	23.0	2.59	12.2
	4	63.4	68.8	372.5	21.9	2.62	15.8
H & N (NICK CHICK)	3	70.1	73.9	412.1	23.7	2.58	11.1
	4	63.4	72.7	372.6	23.3	2.60	20.4
HUBBARD (LEGHORN)	3	69.6	73.4	408.8	24.9	2.66	13.5
	4	68.5	72.5	402.5	23.6	2.63	10.2
HYLINE (W-36)	3	67.0	73.2	393.8	22.5	2.53	21.1
	4	65.5	69.1	385.1	21.5	2.62	12.5
COLONIAL (365-S)	3	62.2	67.9	365.0	19.9	2.45	17.0
	4	54.2	60.5	318.5	18.1	2.54	24.2
SHAVER (288-A)	3	65.4	68.6	384.6	21.3	2.67	8.9
	4	62.6	66.2	368.1	21.4	2.72	10.8
WHITE EGG AVERAGE	3	67.3	71.4	395.1	22.6	2.60	13.0
	4	63.3	68.7	372.0	21.8	2.63	15.4

BROWN EGG LAYERS							
HISEX (BROWN)	3	61.9	66.9	365.3	25.2	2.85	16.7
	4	59.2	65.0	348.0	23.8	2.82	15.8
HUBBARD (GOLDEN COMET)	3	62.4	67.1	367.1	24.6	2.84	14.4
	4	57.6	66.5	338.6	24.1	2.79	25.8
DEKALB (SEX-SAL-LINK-G)	3	60.7	64.4	356.9	24.4	2.95	15.6
	4	52.9	62.6	311.3	24.7	2.98	27.5
BROWN EGG AVERAGE	3	61.7	66.2	363.1	24.7	2.88	15.6
	4	56.6	64.7	332.6	24.2	2.86	23.1

TABLE 90. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	25.6	44.4	41.8	2.5	81.0
	4	25.9	44.4	40.8	2.2	79.0
ISA-BABCOCK (B300)	3	25.9	41.9	40.6	2.9	80.9
	4	26.0	42.2	38.9	3.0	80.7
HISEX (WHITE)	3	25.8	45.1	42.2	2.6	78.9
	4	25.8	41.9	38.4	2.6	80.0
H & N (NICK CHICK)	3	25.8	45.4	42.9	3.0	82.6
	4	25.4	43.8	38.0	2.7	81.6
HUBBARD (LEGHORN)	3	26.2	45.8	43.4	2.3	81.6
	4	25.7	44.4	41.8	2.3	80.8
HYLINE (W-36)	3	25.6	44.6	40.6	2.3	77.0
	4	25.6	42.2	39.9	2.3	77.5
COLONIAL (365-S)	3	24.9	40.1	36.7	2.5	80.1
	4	24.8	35.5	31.7	2.5	78.9
SHAVER (288-A)	3	25.3	41.3	39.3	2.4	78.1
	4	25.7	40.4	38.1	2.5	79.0
WHITE EGG AVERAGE	3	25.6	43.6	40.9	2.6	80.0
	4	25.6	41.8	38.5	2.5	79.7

BROWN EGG LAYERS						
HISEX (BROWN)	3	27.5	43.8	40.5	2.1	80.5
	4	27.6	42.9	39.0	2.1	79.4
HUBBARD (GOLDEN COMET)	3	28.0	44.6	41.4	1.9	81.0
	4	27.3	43.3	37.3	2.0	82.0
DEKALB (SEX-SAL-LINK-G)	3	27.4	42.2	39.7	1.9	83.7
	4	29.1	41.0	34.5	1.7	83.6
BROWN EGG AVERAGE	3	27.7	43.6	40.5	2.0	81.8
	4	28.0	42.4	36.9	1.9	81.6

TABLE 91. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	1.2	8.8	8.8	27.9	53.4
	4	0.7	8.4	9.0	26.1	55.8
ISA-BABCOCK (B300)	3	1.4	8.7	6.1	26.0	57.7
	4	1.1	7.9	5.7	25.5	59.7
HISEX (WHITE)	3	1.1	7.9	8.2	28.4	54.4
	4	1.2	8.1	8.1	28.2	54.4
H & N (NICK CHICK)	3	1.1	8.2	7.5	28.8	54.5
	4	1.0	9.2	9.7	31.8	48.3
HUBBARD (LEGHORN)	3	0.6	7.1	5.8	24.1	62.5
	4	1.0	8.1	7.2	30.0	53.8
HYLINE (W-36)	3	1.1	8.9	9.2	27.6	53.2
	4	0.4	9.6	9.0	29.4	51.6
COLONIAL (365-S)	3	1.5	10.7	12.5	33.0	42.4
	4	1.6	13.3	13.8	31.7	39.6
SHAVER (288-A)	3	1.4	8.6	11.1	32.4	46.5
	4	0.9	8.0	10.2	28.0	52.9
WHITE EGG AVERAGE	3	1.2	8.6	8.6	28.5	53.1
	4	1.0	9.1	9.1	28.8	52.0

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.3	5.1	3.3	15.8	75.4
	4	0.3	4.7	3.8	15.5	75.7
HUBBARD (GOLDEN COMET)	3	0.1	5.4	2.4	10.8	81.3
	4	0.4	5.8	4.0	16.3	73.5
DEKALB (SEX-SAL-LINK-G)	3	0.2	5.4	3.6	18.3	72.5
	4	0.5	3.7	4.1	16.9	74.8
BROWN EGG AVERAGE	3	0.2	5.3	3.1	14.9	76.5
	4	0.4	4.7	4.0	16.2	74.7

TABLE 92. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN SHALLOW CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	95.0	1.6	2.9	0.5	1.5	0.0
	4	92.9	2.2	4.1	0.8	0.3	0.0
ISA-BABCOCK (B300)	3	95.8	1.4	1.8	1.1	1.9	0.0
	4	94.6	2.0	2.7	0.6	1.3	0.0
HISEX (WHITE)	3	90.5	2.9	5.3	1.3	1.0	0.0
	4	93.9	1.9	3.7	0.5	3.7	0.3
H & N (NICK CHICK)	3	93.3	4.0	1.9	0.8	0.9	0.0
	4	94.2	3.3	2.4	0.1	1.4	0.3
HUBBARD (LEGHORN)	3	94.4	1.6	2.9	1.1	3.5	0.0
	4	95.2	0.6	3.5	0.7	2.4	0.7
HYLINE (W-36)	3	96.0	1.2	2.7	0.1	1.1	0.0
	4	95.1	1.8	3.0	0.2	1.2	0.4
COLONIAL (365-S)	3	94.8	1.8	3.0	0.4	1.0	0.0
	4	94.8	2.9	2.1	0.2	0.0	0.4
SHAVER (288-A)	3	95.4	2.4	1.8	0.4	2.0	0.0
	4	93.7	2.0	3.4	0.9	0.7	0.3
WHITE EGG AVERAGE	3	94.4	2.1	2.8	0.7	1.6	0.0
	4	94.3	2.1	3.1	0.5	1.4	0.3

BROWN EGG LAYERS							
HISEX (BROWN)	3	94.5	1.4	3.5	0.5	2.5	11.6
	4	95.2	0.8	3.4	0.7	5.5	12.4
HUBBARD (GOLDEN COMET)	3	95.3	1.3	2.8	0.5	4.1	13.1
	4	95.7	1.4	2.4	0.4	3.5	15.4
DEKALB (SEX-SAL-LINK-G)	3	96.2	1.0	2.1	0.8	5.2	11.1
	4	95.7	0.8	3.3	0.2	4.2	12.0
BROWN EGG AVERAGE	3	95.3	1.2	2.8	0.6	3.9	11.9
	4	95.5	1.0	3.0	0.4	4.4	13.2

TABLE 93. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG PRODUCTION HEN HOUSED (%)	HEN DAY (%)	EGGS/ BIRD HOUSED	FEED CONS. (LBS/100 HENS/D)	LBS OF FEED/LB OF EGGS	MORT. (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	66.7	71.9	391.9	22.4	2.54	14.4
	4	59.1	69.1	347.1	22.3	2.68	25.3
ISA-BABCOCK (B300)	3	64.0	68.9	376.5	22.3	2.71	13.3
	4	61.6	65.9	362.2	21.2	2.69	12.5
HISEX (WHITE)	3	68.4	71.8	402.3	22.1	2.58	13.3
	4	62.6	68.3	368.0	21.9	2.64	17.5
H & N (NICK CHICK)	3	68.8	74.1	405.3	23.7	2.58	19.4
	4	60.4	69.1	356.4	23.0	2.71	24.3
HUBBARD (LEGHORN)	3	70.1	72.5	411.3	23.8	2.72	7.9
	4	65.5	71.4	382.0	23.5	2.74	20.0
HYLINE (W-36)	3	64.6	70.9	379.6	21.7	2.53	15.6
	4	64.5	68.5	379.5	20.7	2.56	12.5
COLONIAL (365-S)	3	60.2	63.9	355.0	19.5	2.56	17.2
	4	56.6	62.4	333.1	19.1	2.59	17.5
SHAVER (288-A)	3	64.8	68.5	381.2	21.4	2.59	10.0
	4	64.3	66.7	378.3	21.1	2.72	5.0
WHITE EGG AVERAGE	3	66.0	70.3	387.8	22.1	2.60	13.9
	4	61.8	67.7	363.3	21.6	2.66	16.8

BROWN EGG LAYERS							
HISEX (BROWN)	3	57.1	65.9	335.7	24.6	2.74	24.4
	4	52.1	58.8	306.3	23.2	3.01	26.7
HUBBARD (GOLDEN COMET)	3	61.0	68.1	358.4	24.6	2.77	18.9
	4	53.9	66.0	317.0	24.4	2.86	37.5
DEKALB (SEX-SAL-LINK-G)	3	62.4	67.0	366.9	24.3	2.74	21.1
	4	51.0	59.3	299.7	24.8	3.07	30.0
BROWN EGG AVERAGE	3	60.1	67.0	353.7	24.5	2.75	21.5
	4	52.3	61.4	307.7	24.1	2.97	31.4

TABLE 94. EFFECTS OF NUMBER OF BIRDS PER CAGE ON PERFORMANCE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	EGG WEIGHT (OZ/DZ)	EGG MASS		SPECIFIC GRAVITY SCORE	HAUGH UNITS
			HEN HOUSED	HEN DAY (G/D)		

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	25.5	43.6	40.3	2.3	81.2
	4	25.1	41.2	35.0	2.3	81.4
ISA-BABCOCK (B300)	3	25.8	42.3	39.2	3.0	80.9
	4	25.6	40.2	37.4	2.9	80.0
HISEX (WHITE)	3	25.8	44.0	41.8	2.5	79.7
	4	25.8	41.6	38.0	2.6	80.8
H & N (NICK CHICK)	3	25.5	45.0	41.7	2.8	80.9
	4	25.7	42.2	36.7	2.5	81.0
HUBBARD (LEGHORN)	3	26.1	45.1	43.6	2.4	79.6
	4	25.6	43.6	39.8	2.4	79.9
HYLINE (W-36)	3	25.5	43.1	39.1	2.3	77.0
	4	25.5	41.6	39.0	2.3	76.9
COLONIAL (365-S)	3	25.1	37.8	35.5	2.4	77.8
	4	25.0	36.8	33.2	2.6	79.3
SHAVER (288-A)	3	25.4	41.3	39.0	2.6	79.5
	4	25.4	40.4	38.9	2.6	80.5
WHITE EGG AVERAGE	3	25.6	42.8	40.0	2.5	79.6
	4	25.5	40.9	37.3	2.5	80.0

BROWN EGG LAYERS						
HISEX (BROWN)	3	28.1	44.0	38.0	1.9	79.6
	4	27.9	39.1	34.4	2.1	80.6
HUBBARD (GOLDEN COMET)	3	27.5	44.7	39.9	1.9	82.1
	4	27.1	42.6	34.4	1.9	81.9
DEKALB (SEX-SAL-LINK-G)	3	27.6	44.4	41.2	1.7	82.9
	4	27.8	39.1	33.4	1.9	83.1
BROWN EGG AVERAGE	3	27.8	44.4	39.7	1.9	81.5
	4	27.6	40.3	34.1	2.0	81.9

TABLE 95. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG SIZE OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	CAGE TYPE	PEE WEE (%)	SMALL (%)	MEDIUM (%)	LARGE (%)	EXTRA LARGE (%)

WHITE EGG LAYERS						
DEKALB (XL-LINK)	3	1.5	8.1	9.7	31.3	49.4
	4	0.9	9.6	10.6	33.3	45.6
ISA-BABCOCK (B300)	3	1.5	7.4	6.6	29.3	55.2
	4	1.7	8.4	7.8	28.5	53.6
HISEX (WHITE)	3	1.1	7.7	7.5	29.5	54.1
	4	1.2	8.3	7.4	28.7	54.4
H & N (NICK CHICK)	3	0.8	9.5	9.2	28.8	51.7
	4	1.1	8.7	8.6	28.6	53.0
HUBBARD (LEGHORN)	3	1.2	7.0	6.5	23.0	62.4
	4	1.3	8.5	8.8	26.0	55.4
HYLINE (W-36)	3	1.4	8.6	8.0	28.6	53.5
	4	0.9	10.3	8.8	29.5	50.5
COLONIAL (365-S)	3	1.3	11.2	11.8	31.8	43.9
	4	1.4	11.4	12.2	33.9	41.1
SHAVER (288-A)	3	0.9	9.2	9.3	31.8	48.8
	4	1.6	7.9	9.3	32.4	48.9
WHITE EGG AVERAGE	3	1.2	8.6	8.6	29.3	52.4
	4	1.2	9.1	9.2	30.1	50.3

BROWN EGG LAYERS						
HISEX (BROWN)	3	0.2	3.9	2.8	12.6	80.5
	4	0.1	4.5	3.8	15.0	76.7
HUBBARD (GOLDEN COMET)	3	0.5	5.5	2.6	14.9	76.6
	4	0.3	6.2	4.5	18.1	70.9
DEKALB (SEX-SAL-LINK-G)	3	1.1	4.2	3.0	14.2	77.6
	4	0.1	4.3	4.4	14.8	76.5
BROWN EGG AVERAGE	3	0.6	4.5	2.8	13.9	78.2
	4	0.2	5.0	4.2	16.0	74.7

TABLE 96. EFFECTS OF NUMBER OF BIRDS PER CAGE ON EGG QUALITY OF ENTRIES IN DEEP CAGES, 26TH NCLPMT (140-728 DAYS)

BREEDER (STRAIN)	BIRDS/ CAGE	GRADE A (%)	GRADE B (%)	CRACKS (%)	LOSS (%)	BLOOD SPOTS (%)	MEAT SPOTS (%)

WHITE EGG LAYERS							
DEKALB (XL-LINK)	3	93.5	2.3	3.4	0.8	0.7	0.0
	4	92.8	1.8	4.2	1.2	1.1	0.0
ISA-BABCOCK (B300)	3	95.2	1.4	2.2	1.3	4.0	0.0
	4	93.4	2.9	3.2	0.4	1.7	0.0
HISEX (WHITE)	3	91.3	3.3	4.5	1.0	2.1	0.0
	4	90.9	2.7	5.3	1.2	0.3	0.6
H & N (NICK CHICK)	3	93.7	3.2	2.6	0.5	0.4	0.0
	4	92.4	4.3	2.6	0.6	0.3	0.0
HUBBARD (LEGHORN)	3	93.3	1.6	3.6	1.5	2.7	0.0
	4	94.4	2.0	2.6	1.0	4.9	0.0
HYLINE (W-36)	3	94.1	2.6	3.1	0.2	0.0	0.0
	4	93.3	2.2	3.8	0.7	0.0	0.0
COLONIAL (365-S)	3	94.7	2.6	2.4	0.3	0.8	0.0
	4	91.4	3.6	4.0	1.0	2.0	0.5
SHAVER (288-A)	3	96.6	0.8	2.1	0.5	2.2	0.8
	4	95.7	1.7	2.3	0.3	0.8	0.0
WHITE EGG AVERAGE	3	94.1	2.2	3.0	0.7	1.6	0.1
	4	93.1	2.7	3.5	0.8	1.4	0.1

BROWN EGG LAYERS							
HISEX (BROWN)	3	94.9	1.5	2.9	0.7	3.9	12.0
	4	92.8	2.3	4.5	0.3	3.8	11.8
HUBBARD (GOLDEN COMET)	3	96.8	1.2	1.7	0.3	5.9	16.7
	4	96.6	0.7	2.3	0.4	4.2	20.4
DEKALB (SEX-SAL-LINK-G)	3	93.4	1.2	4.0	1.4	3.6	15.6
	4	95.0	1.2	3.4	0.4	5.2	14.6
BROWN EGG AVERAGE	3	95.0	1.3	2.9	0.8	4.5	14.8
	4	94.8	1.4	3.4	0.4	4.4	15.6

TABLE 97. HENDAY PRODUCTION OF ENTRIES FOR
26TH NCLPMT (22-34 WEEKS)

BREEDER (STRAIN)	22 WEEKS	24 WEEKS	26 WEEKS	28 WEEKS	30 WEEKS	32 WEEKS	34 WEEKS

WHITE EGG LAYERS							
DEKALB (XL-LINK)	5.5	40.3	82.9	91.1	90.6	92.1	92.9
ISA-BABCOCK (B300)	8.6	44.6	79.8	86.5	86.5	84.5	86.0
HISEX (WHITE)	27.0	71.6	89.0	88.9	86.3	87.3	88.4
H & N (NICK CHICK)	7.9	54.0	87.2	90.7	89.8	91.4	90.7
HUBBARD (LEGHORN)	7.1	47.8	84.3	88.6	87.9	88.5	89.5
HYLINE (W-36)	2.7	27.9	78.3	91.9	91.9	90.9	90.3
COLONIAL (365-S)	14.8	50.9	78.4	83.8	84.2	85.5	84.3
SHAVER (288-A)	6.9	42.5	82.3	87.5	88.5	89.8	90.0
WHITE EGG AVERAGE	10.1	47.5	82.8	88.6	88.2	88.7	89.0

BROWN EGG LAYERS							
HISEX (BROWN)	4.7	40.6	75.5	82.4	85.1	84.4	84.1
HUBBARD (GOLDEN COMET)	7.0	42.2	79.5	85.0	86.0	84.6	86.4
DEKALB (SEX-SAL-LINK-G)	0.5	13.4	46.8	68.0	77.2	82.0	85.1
BROWN EGG AVERAGE	4.1	32.0	67.2	78.5	82.8	83.6	85.2

TABLE 98. HENDAY PRODUCTION OF ENTRIES FOR
26TH NCLPMT (36-48 WEEKS)

BREEDER (STRAIN)	36 WEEKS	38 WEEKS	40 WEEKS	42 WEEKS	44 WEEKS	46 WEEKS	48 WEEKS

WHITE EGG LAYERS							
DEKALB (XL-LINK)	91.9	91.2	89.9	89.9	87.7	85.5	84.3
ISA-BABCOCK (B300)	84.7	83.0	81.8	81.7	79.8	77.1	76.3
HISEX (WHITE)	87.2	85.0	83.9	84.4	82.8	81.2	81.2
H & N (NICK CHICK)	89.5	87.7	88.4	86.3	84.2	83.2	83.1
HUBBARD (LEGHORN)	88.2	86.7	86.8	85.7	84.4	83.1	84.2
HYLINE (W-36)	90.0	88.7	87.6	85.1	85.5	83.3	81.6
COLONIAL (365-S)	83.0	81.0	80.4	77.9	76.7	75.1	75.0
SHAVER (288-A)	88.7	88.3	85.6	84.2	83.4	82.0	80.6
WHITE EGG AVERAGE	87.9	86.5	85.6	84.4	83.1	81.3	80.8

BROWN EGG LAYERS							
HISEX (BROWN)	82.7	79.8	82.5	81.0	79.6	76.4	75.8
HUBBARD (GOLDEN COMET)	83.9	81.6	82.2	81.0	80.4	78.2	76.7
DEKALB (SEX-SAL-LINK-G)	85.4	83.5	83.1	82.1	79.4	78.0	76.1
BROWN EGG AVERAGE	84.0	81.6	82.6	81.4	79.8	77.6	76.2

TABLE 99. HENDAY PRODUCTION OF ENTRIES FOR
26TH NCLPMT (50-62 WEEKS)

BREEDER (STRAIN)	50 WEEKS	52 WEEKS	54 WEEKS	56 WEEKS	58 WEEKS	60 WEEKS	62 WEEKS

WHITE EGG LAYERS							
DEKALB (XL-LINK)	84.4	80.5	80.3	76.8	77.7	76.1	74.2
ISA-BABCOCK (B300)	75.0	72.9	72.2	69.9	70.9	70.6	69.3
HISEX (WHITE)	79.2	77.3	76.0	72.4	75.1	74.3	72.5
H & N (NICK CHICK)	80.7	79.1	78.4	75.5	74.8	75.2	73.2
HUBBARD (LEGHORN)	81.7	79.1	80.3	75.7	76.5	76.6	74.7
HYLINE (W-36)	80.8	80.5	78.7	76.6	75.9	75.3	74.4
COLONIAL (365-S)	71.7	70.1	68.1	65.9	65.6	64.1	65.0
SHAVER (288-A)	79.6	76.2	75.2	71.7	72.9	69.7	71.4
WHITE EGG AVERAGE	79.1	77.0	76.1	73.1	73.7	72.7	71.8

BROWN EGG LAYERS							
HISEX (BROWN)	74.7	71.6	69.4	68.8	68.1	66.9	64.3
HUBBARD (GOLDEN COMET)	76.3	73.7	71.9	70.1	69.4	68.2	67.8
DEKALB (SEX-SAL-LINK-G)	74.4	71.5	71.7	70.5	70.7	69.1	66.8
BROWN EGG AVERAGE	75.1	72.2	71.0	69.8	69.4	68.0	66.3

TABLE 100. HENDAY PRODUCTION OF ENTRIES FOR
26TH NCLPMT (68-80 WEEKS)

BREEDER (STRAIN)	68 WEEKS	70 WEEKS	72 WEEKS	74 WEEKS	76 WEEKS	78 WEEKS	80 WEEKS

WHITE EGG LAYERS							
DEKALB (XL-LINK)	2.9	50.8	74.9	78.6	79.4	78.7	77.1
ISA-BABCOCK (B300)	0.5	54.8	74.7	76.6	76.0	73.9	73.8
HISEX (WHITE)	12.1	64.5	76.1	78.5	78.6	76.1	74.7
H & N (NICK CHICK)	9.2	63.4	76.8	82.1	81.6	82.1	80.9
HUBBARD (LEGHORN)	3.0	60.7	78.4	81.8	81.9	80.4	80.0
HYLINE (W-36)	2.9	42.0	67.4	77.1	76.8	77.3	77.7
COLONIAL (365-S)	22.9	57.1	68.2	70.2	70.3	67.8	68.2
SHAVER (288-A)	5.0	51.4	71.0	74.4	74.8	74.7	73.1
WHITE EGG AVERAGE	7.3	55.6	73.4	77.4	77.4	76.4	75.7

BROWN EGG LAYERS							
HISEX (BROWN)	0.8	43.0	68.7	73.0	76.3	73.4	72.7
HUBBARD (GOLDEN COMET)	1.3	54.2	71.9	75.4	75.8	74.7	73.1
DEKALB (SEX-SAL-LINK-G)	0.3	38.6	67.3	74.6	76.5	73.8	72.4
BROWN EGG AVERAGE	0.8	45.3	69.3	74.3	76.2	74.0	72.8

TABLE 101. HENDAY PRODUCTION OF ENTRIES FOR
26TH NCLPMT (82-94 WEEKS)

BREEDER (STRAIN)	82 WEEKS	84 WEEKS	86 WEEKS	88 WEEKS	90 WEEKS	92 WEEKS	94 WEEKS

WHITE EGG LAYERS							
DEKALB (XL-LINK)	77.1	77.7	75.6	73.1	73.2	70.3	69.1
ISA-BABCOCK (B300)	72.6	73.0	71.0	69.0	69.3	67.3	67.4
HISEX (WHITE)	73.5	74.0	71.5	68.8	67.7	67.8	66.5
H & N (NICK CHICK)	79.4	77.1	76.5	74.3	72.9	71.3	70.8
HUBBARD (LEGHORN)	78.2	79.0	77.1	76.5	74.7	72.7	73.9
HYLINE (W-36)	74.5	76.5	74.1	72.3	72.9	72.3	73.1
COLONIAL (365-S)	67.1	65.6	64.4	61.8	61.6	59.4	58.0
SHAVER (288-A)	70.0	71.0	67.5	67.3	67.3	65.2	63.7
WHITE EGG AVERAGE	74.0	74.2	72.2	70.4	70.0	68.3	67.8

BROWN EGG LAYERS							
HISEX (BROWN)	70.2	67.9	66.4	63.8	65.2	62.5	60.6
HUBBARD (GOLDEN COMET)	72.2	71.3	71.4	70.2	70.0	66.6	65.7
DEKALB (SEX-SAL-LINK-G)	71.1	70.5	69.0	67.9	64.5	64.0	64.0
BROWN EGG AVERAGE	71.1	69.9	68.9	67.3	66.6	64.3	63.5

TABLE 102. HENDAY PRODUCTION OF ENTRIES FOR
26TH NCLPMT (96-104 WEEKS)

BREEDER (STRAIN)	96 WEEKS	98 WEEKS	100 WEEKS	102 WEEKS	104 WEEKS

WHITE EGG LAYERS					
DEKALB (XL-LINK)	68.2	65.8	62.8	62.7	63.5
ISA-BABCOCK (B300)	66.0	67.4	64.5	63.7	63.0
HISEX (WHITE)	64.4	64.2	62.7	61.1	59.5
H & N (NICK CHICK)	70.2	68.8	67.3	67.7	65.4
HUBBARD (LEGHORN)	73.8	71.6	68.6	67.6	67.2
HYLINE (W-36)	71.6	71.9	68.1	68.5	67.0
COLONIAL (365-S)	56.7	54.4	52.2	51.7	50.4
SHAVER (288-A)	61.1	59.2	57.4	54.3	55.2
WHITE EGG AVERAGE	66.5	65.4	62.9	62.2	61.4

BROWN EGG LAYERS					
HISEX (BROWN)	59.9	59.6	55.7	54.6	52.7
HUBBARD (GOLDEN COMET)	65.7	66.0	62.0	61.0	60.7
DEKALB (SEX-SAL-LINK-G)	63.6	62.8	59.7	57.0	56.9
BROWN EGG AVERAGE	63.1	62.8	59.1	57.5	56.8

STOCK SUPPLIERS AND CATEGORIES

<u>Breeder</u>	<u>Stock</u>	<u>Category*</u>	<u>Source</u>
DeKalb AgResearch, Inc. 3100 Sycamore Road DeKalb, IL 60115	DeKalb XL-Link	I-A YES	Clay's Hatchery Route 1 Blackstone, VA 23824
ISA-Babcock, Inc. P.O. Box 280 Ithaca, NY 14851	ISA-Babcock B300	I-A YES	Hodges Poultry Farm P.O. Drawer D Callahan, FL 32011
Hisex Division Pilch, Inc. Box 438 Troutman, NC 28166	Hisex White	I-A YES	Cleveland Farms Route 4, Box 173-A Shelby, NC 28150
Hisex Division Pilch, Inc. Box 438 Troutman, NC 28166	Hisex Brown	I-A YES	Cleveland Farms Route 4, Box 173-A Shelby, NC 28150
Hubbard Farms Walpole, NH 03608	Hubbard Golden Comet	I-A YES	Bowers Brothers Hatchery Route 4 Albemarle, NC 28001
H & N, Inc. 15305 N.E. 40th Street Redmond, WA 98052	H & N "Nick Chick"	I-A YES	Tatum Farms Route 3 Dawsonville, GA 30534
Hubbard Farms Walpole, NH 03608	Hubbard Leghorn	II YES	Hubbard Farms Walpole, NH 03608
DeKalb AgResearch, Inc. 3100 Sycamore Road DeKalb, IL 60115	DeKalb Sex-Sal-Link "G"	I-A YES	Pee Dee Hatchery P.O. Box 156 Hartsville, SC 29550
HyLine International Johnston, IA 50131	HyLine W-36	I-C	Not applicable
Colonial Poultry Farms, Inc., Pleasant Hill, MO 64080	Colonial True-Line 365-S	II YES	Colonial Poultry Farms, Inc. Pleasant Hill, MO 64080
Shaver Poultry Breeding Farms, Ltd., Box 400 Ontario, CANADA N14 5V9	Shaver Starcross 288-A	I-A YES	Silver Lake Hatchery, Inc. 209 Grove Street Silver Lake, MN 55381

*I = Extensive distribution in southeast United States.
 II = Little or no distribution in southeast United States.
 A = Entry requested.
 C = Entry neither requested nor supported.
 YES = Supporting and fully cooperating with test.

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