NATIONAL RETAIL EGG QUALITY SURVEY Paul H. Patterson **Assistant Professor** Dept. of Poultry Science

In the summer of 1996 a national study of retail egg quality was conducted by state extension poultry specialists in California. Illinois, the New England states, Connecticut, Massachusetts and New York, North Carolina, Texas, and Pennsylvania.

Table ! Pennsylvania All Egg Summary

The study included 38 cities, 115 grocery stores, and evaluated more than 770 dozen large eggs. Specialists looked at conventional white, brown, and specialty eggs for price, age from packing date, egg weight, and interior and exterior quality factors.

Specialty eggs included subgroups of nutritionally altered eggs, organic eggs, fertile eggs, eggs from welfare-managed hens, and hens fed all-vegetable diets.

Locations

TRAIT	Allen	Ene	Harris	Lanc	Philly	Pitts	StCol
Age	20 4	14 4	119	10 9	14 9	12 0	15 1
Wt (g)	58 7	58 9	59 2	59 0	58 4	59 6	59 4
Alb ht	4 8	4 8	45	5 3	4 >	5 0	4 9
HL1	65 5	65 }	63 4	70 1	63 3	67 0	66 1
HU1 <55	13 2	15.4	146	8 1	18 3	14 6	0 3
Crack (%)	7 4	8 0	7 5	7 6	47	5 8	3 9
Leaker (%)	0 3	0 8	03	0 8	1 9	0	0
Price (\$)	171	1 12	1 26	117	1 65	1 38	1 27

Allentown Erie Harrisburg Lancaster Philadelphia Pittsburgh State College

Haugh Units

The two largest samples were taken in Calilfornia and Pennsylvania with 84 and 67 egg brands sampled from 27 stores in both states, respectively.

Pennsylvania eggs were evaluated in Allentown, Erie, Harrisburg, Lancaster, Philadelphia, Pittsburgh, and State College. In Pennsylvania we relied heavily on assistance from Department of Agriculture egg inspectors to gather and evaluate more than 2,400 individual eggs.

National, egg age in the retail setting averaged 11.7 days for white eggs, 14.8 days for brown, and 16.7 for specialty eggs. White eggs in individual states averaged 16.1, 11.7, 11.3, 10.7, 10.6 and 10.0 days for white eggs in Texas, California, Illinois, Pennsylvania, North Carolina and the North East respectively. The Haugh unit (HU) values, which are a measure of albumen height (the higher the better, with greater than 72=AA, and greater than 60=A), and an indicator of interior quality averaged 69.1 for the white eggs, 63.5 for the brown and 66.1 for the specialty eggs. White eggs in the different regions had HU values of: North East, 75.5; Illinois, 71.6; Pennsylvania, 69.0; North Carolina, 68.1; Texas, 67.3; and California, 62.8. Cracked eggs in the cartons averaged 5.9 percent for white eggs, 6.9 percent for brown, and 4.9 percent for specialty eggs. The state with the most cracked white eggs was North Carolina at 7.4 percent, followed by Pennsylvania, 7.2 percent; the North East, 6.9 percent, California, 4.9 percent; Texas, 4.7 percent, and Illinois with the fewest cracks at 4.6

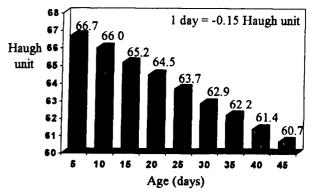
percent.

Egg price varied greatly by egg type and region of the country. White eggs averaged \$1.20 per dozen, brown eggs were \$1.47, and specialty eggs were the highest at \$2.16 per dozen. Average

white egg price in the different regions ranged from \$1.71 in California, and \$1.52 in the North East, to \$1.07 in Pennsylvania, \$1.04 in North Carolina, \$0.96 in Texas, and \$0.90 in Illinois.

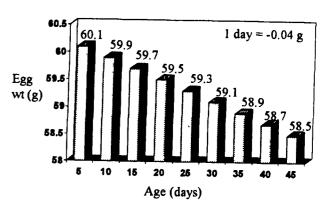
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Egg Age to Haugh Unit Relationship all eggs (771 doz)



R square = 0.0269, P = 0.001, 0 = 67.5 Haugh units

Egg Age to Weight Relationship all eggs (771 dozen)



R square = 0.0124, P = 0.01, 0 = 60.3 g

Colored Breeds Shine At Solanco Fair

old, Franken Theodore Ulli. Barbara Richardson showed the reserve senior and reserve grand champion, a 2-year-old, Top-O-

Hill Merit Thelma.

Suzann showed both the junior champions of the Jersey breed show. Her winter calf, Legend Merit Patti of Ttop-O-Hill, was junior champion, while her spring yearling, Hill Acres Shelly's Sherry, was the reserve junior champion.

SOLANCO FAIR **Dairy Shows Colored Breeds**

AYRSHIRE
SPRING CALF: 1.Kennstock Farms, 2.Susan Richardson; 3.Warren Schmuck WINTER CALF: 1.Rebecca Nolan, 2 Henry

Hambrick. FALL CALF: 1.Craig Nolan; 2.Karen Hambrick; 3.Kenneth Findley. SUMMER YEARLING: 1.James Findley,

2.Thomas Spring. SPRING YEARLING: 1.Susan Richardson, 2 Kenneth, Kathy Findley, 3 Kenneth

WINTER YEARLING: 1.Susan Richardson; 2.Henry Hambrick. FALL YEARLING: 1.Stephanie Pomraning;

2.Karen Hambrick JUNIOR CHAMPION: Craig Nolan, fall calf.

winter calf DRY COWS: 1.Kevin Nolan; 2.James Findley; 3 Stephanie Pomraning. 2-YR-OLD. 1 James Findley; 2.Karen Ham-

brick; 3 Stephanie Pomraning. 3-YR-OLD: 1.Rebecca Nolan; 2.Kennstock Farms, 3 Bonnie Wentworth. 4-YR-OLD: 1.Stephanie Pomraning; 2.Rebecca Nolan; 3 Karne Hambrick.

5-YR-OLD: 1.karen Hambrick; 2.Kenneth Findley; 3 Kenneth Findley. SENIOR CHAMPION Rebecca Nolan,

3-year-old. RESERVE SR CHAMP Stephanie Pomran-

ing, 4-year-old GRAND CHAMPION Rebecca Nolan RESERVE GRAND CHAMP: Stephanie

Pomraning PREMIER EXHIBITOR Findley family PREMIER BREEDER: Hambrick family JR DIVISION CHAMPION Rebecca Nolan JR DIV RESERVE CHAMP. Stephanie

GET OF SIRE 1 Nolan family, 2 Stephanie Pomraning, 3 Karen Hambrick, Kenneth Findley, James Findley

BEST THREE 1 Karen Hambrick, 2 Stephanie Pomraning, 3 Henry Hambrick. DAIRY HERD 1 Nolan family, 2 Karen Hambrick; 3 Stephanie Pomraning PRODUCE OF DAM 1 Noian family, 2 Wentworth Farm; 3 James Findley DAM, DAUGHTER: 1 Nolan family; 2.Karen Hambrick; 3 James Findley.

JERSEY
SPRING CALF: 1 Barbara Richardson WINTER CALF. Suzann Pomraning.
SPRING YEARLING Suzann Pomraning. JUNIOR CHAMPION Suzann Pomraning, RESERVE JR CHAMP: Suzann Pomraning,

spring yearling 2-YEAR-OLD. 1 Suzann Pomraning; 2.Barbara Richardson SENIOR CHAMPION. Suzann Pomraning,

RESERVE SR CHAMP Barbara Richardson, 2-year-old

GRAND CHAMPION: Suzann Pomraning. RESERVE GRAND CHAMP: Barbara Richardson

BROWN SWISS

SPRING CALF 1 Amanda Shahan; 2.William Reinsfelder, 3.Joshua Hushon. WINTER CALF: 1.Lisa Jones. FALL CALF: 1 Joshua Hushon; 2 Thomas Spring SPRING YEARLING: 1 Joseph Hushon.

WINTER YEARLING: 1 Joseph Hushon. FALL YEARLING: 1 Lisa Jones JUNIOR CHAMPION, Lisa Jones, winter calf. RESERVE JR CHAMP: Joshua Hushon, fall

4-YR-OLD: 1 Jacob Hushon. 5-YR-OLD: 1. Joshua Hushon, SENIOR CHAMPION, Joshua Hushon, 5-year-old RÉSERVE SR CHAMP Jacob Hushon,

5-year-old GRAND CHAMPION: Joshua Hushon. RESERVE GRAND CHAMP: Jacob Hushon. GET OF SIRE. 1. Hushon family; 2.Lisa

BEST THREE: 1.Hushon family.
DAM, DAUGHTER 1.Amanda Shahan and Jacob Hushon; 2 Joshua Hushon.

GUERNSEY
SPRING CALF: 1.Tracy Richardson
WINTER CALF: 1.Megan Spring. FALL CALF. Thomas Spring. SPRING YEARLING: 1.Tracy Richardson, 2 Kimberly Pomraning.
JUNIOR CHAMPION. Tracy Richardson, spring calf
RESERVE JR CHAMP. Tracy Richardson,

spring yearling. 2-YR-OLD: 1 Kimberly Pomraning

3-YR OLD: 1 Kimberly Pomraning. SENIOR CHAMPION: Kimberly Pomraning, RESERVE SR CHAMP Kimberly Pomran-

ing, 2-year-old.
GRAND CHAMPION Kimberly Pomraning,
RESERVE GRAND CHAMP: Kimberly Pomraning.

SHOWMANSHIP

12 & UNDER. 1.Barbara Richardson; 2.Lisa Jones; 3 William Reinsfelder. 13 & OLDER 1. Craig Nolan; 2. Amanda Shahan; 3 Stephanie Pomraning

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From the left, Joseph Hushon holds the halter of his reserve junior champion of the Brown Swiss show, while Lisa Jones holds the halter of her junior champion, and Amanda Shahann and Harmony Miller hold the respective halters of Jacob Hushon's reserve grand champion, and Joshua Hushon's grand champion.



From the left, Barbara Richardson holds the halter of her reserve grand champion Jersey of the Solanco Fair, while Suzann Pomraning, holds the halter of her grand champion and shows her plaque.