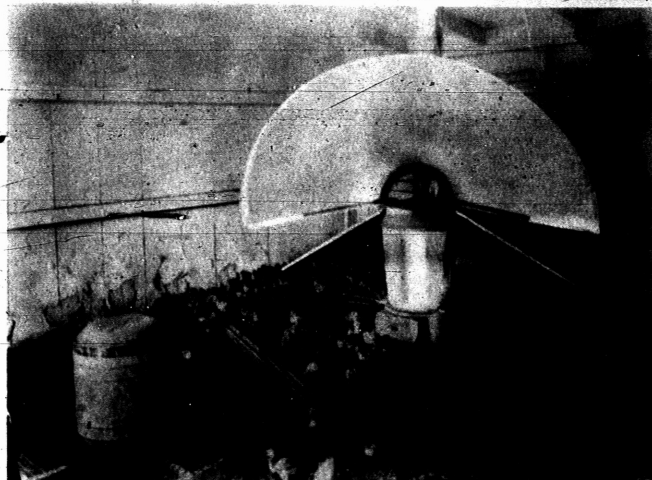


CLASSIFIED DEPARTMENT



Decrease Loss of Chicks to Make Poultry Pay

By C. E. HARRIS
(Kentucky College of Agriculture)

One way to cut the cost of poultry production and increase profits is to decrease losses of young chicks and growing stock. Good pullets, to replace 60 to 70 per cent of old hens, should be raised as cheaply as possible. If a large percentage of the chicks dies nothing can be done to offset the loss. Forty-five Kentucky flock owners co-operating with county agents started 20,913 chicks and raised 19,187, or 91.7 per cent, by following the clean chick program of the College of Agriculture.

Clean Chicks: The term "clean chicks" refers to chicks that will live if properly cared for. Pullorum disease or B. W. D. causes high mortality. Disease is transmitted from the infected hen to her chicks through eggs, and cannot be cured by drugs. Loss of chicks from this disease can be practically eliminated by following the recommendations.

1—Test flock by standard tube blood agglutination test, if eggs are to be set or sold for hatching.

2—Sell all birds that react to the test.

3—Clean poultry house and premises.

4—Disinfect house, use clean nesting material and keep clean litter on floor.

5—Do not incubate eggs from tested and non-tested flocks in same incubator.

6—Do not brood chicks from tested and non-tested flocks under same brooder.

7—Buy chicks from breeders or hatcheries who hatch only eggs from blood-tested flocks.

Have Clean Equipment: Healthy chicks will thrive only when comfortably housed. The house need not be expensive, but so built that uniform temperature can be maintained. It should be large enough to accommodate the number of chicks to be brooded, up to 300 chicks. Not more than 300 chicks should be put in one brooder.

Necessary Equipment: A 10 by 12 foot brooder house mounted on skids, or a remodeled structure to meet requirements is the most important equipment. There should be a good coal-burning brooder with a 48 to 52-inch canopy and a large coal chamber or a home-made brick or double barrel brooder.

Feeders should be used which will allow free access to feed and prevent contamination. Three reel-type feeders, 4 feet long, 4 inches wide and 2 1/2 inches deep should be provided for each brooder house. One quart jar water container should be used for each 30 chicks.

To Clean Equipment: Sweep the walls and scrape floor of brooder house. Scrub floor and at least 3 feet up walls with boiling water containing a 13-ounce can of lye to each 5 gallons. Spray brooder house and equipment with a 5 per cent solution of compound cresol disinfectant. After the house has been cleaned and disinfected it should be moved to ground where poultry has not ranged for two years. If the house cannot be moved, a sunporch should be provided.

Sun Porches: For a sun porch, 3 run 10 by 12 feet may be made on the east or south side of the brooder house, using 1-inch mesh poultry netting for the sides and top and 3-4 inch mesh hardware cloth or slats 1 by 2 inches, spaced 1 inch apart, for the floor. Chicks can be brooded to 10 to 12 weeks of age in the house and in this sun porch. They should not be allowed to get on contaminated ground. When chicks are 10 to 12 weeks old the house may be moved to clean ground.

MARCH FLOCKS

March is a good month for hatching the general-purpose breeds, and April the best time for all breeds. It is probable most Kentucky chickens are hatched in that month.

Brooding: If a colony brooder is used care should be taken that chicks do not become chilled. The brooder stove should be run a day or two before the arrival of chicks. Holding an even temperature is essential. Plenty of ventilation is necessary. Temperature under the brooder should be 90 to 95 degrees at the start and gradually decreased each week, running about 85 degrees the second week and 80 degrees the third. Behavior of the chicks is a better guide as to heat requirements than a thermometer. At night, chicks should hover in a circle about the brooder. During the day they should be comfortable in all parts of the house. They should not be overcrowded. Chicks should be turned out in the sunshine when about one week old, but not until morning dew is off the grass.

Feeding: Chicks should remain in the incubator or chick shipping boxes until ready for the first feed. Requirements for chick growth, protein, fats and vitamins, should be provided in the ration. A good commercial mash or home mixtures will meet requirements for chick growth. If a commercial mash is fed do not also give milk.

BABY CHICKS
LEADING PACKING HOUSES AND POULTRY RAISERS TELL
What 91 Pay!
CARTER'S CHAMPION CHICKS
If you plan to make money, read these facts. They will make you realize the importance of national prominence have gone on record as preferring one and better from Carter chicks. Their letters are in our catalog. Read this, which makes it plain that 91 pay! \$12.50 worth of eggs from 600 pullets. Mailed \$47.47 on 12 months. I have the honor to cheer this!—B. J. Smith, New York. A. M. Swisher, West Virginia. Sold 67 chickens at 40¢ a lb.—21¢ lb. at 16 weeks. The pullets never made a day's laying record over 100 eggs and laid 100 eggs in 10 days (from 22 weeks). Mrs. E. J. Johnson, Wisconsin. Sold 100 Lohmanns and had 100% live delivery. Out of 150 hens I got as much as 120 eggs a day. My eggs always went for 4¢ a lb.—between Ohio. I can't possibly credit all our customers. Send for our CATALOG FREE. CARTER'S CHICKEN CO., Box 252, Columbus, Ind.

CHICKS THAT SATISFY
Blood Tested—Greensboro Hatched
Short Shipping—Stronger Chicks.

AAA Hollywood Wb. Leghorns	\$5.25	\$10.00	\$45.00
White Leghorns (Eng. type)	4.50	8.50	41.00
Reds, Orpingtons, Wyandottes	4.50	8.50	41.00
Barred Rocks and White Rocks	4.50	8.50	41.00
Heavy Mixed	4.50	7.50	37.00

100% Live Delivery—Shipments Prepaid.
CABOLINA HATCHERIES, Dept. M.
221 E. Sycamore St. GREENSBORO, N. C.

LABORER BABY CHICKS

Thousands weekly all year. Finest Quality and Layers in 40 breeds and Hybrid Buff Pullets and Cockerels. B.W.D. Tested. Ducklings, Goslings, Baby Turkeys, Guinea, Catalog Free.

NABOB HATCHERY, J. J. GAINES, 201 C. O. D. ROCKS, REDS, Wyandottes, Buffs, White Leghorns, Anconas, Heavy Mixed \$7.85 per 100, plus postage. Immediate shipments. MT. HEALTHY HATCHERIES & POULTRY FARMS, Mt. Healthy, Ohio, Box 20.

EIGHTY-SEVEN VARIETIES—All brown or white egg laying hybrids as hatched or sexed. Bloodtested. Special brooding proposition. Catalogue. WAYNE HATCHERY, Wayne City, Ill.

BUY DUBOIS HIGH QUALITY CHICKS, always dependable. A dollar guarantee. All chicks hatched in new Smith Electric Machines of latest type. All flocks blood-tested and culled for high egg production. We have thousands of satisfied customers who say Dubois Chicks make them larger profits. If you have never raised Dubois Chicks, send in your order today. 100% live delivery guarantee. Barred, White, Buff Rocks, Rhode Island Reds, White, Black Minorcas, White Wyandottes, Buff Orpingtons, \$7.90 per 100, \$23.25 per 300. Buff Minorcas, New Hampshire Reds, Silver Laced Wyandottes, \$8.40 per 100, \$24.75 per 300. White Giants, Columbian Game, \$9.00 per 100, \$27.00 per 300. \$19.00 per 300. Prompt delivery. For catalogue on larger orders, write for free literature. DUBOIS COUNTY HATCHERY, Box 935, Bushong, Ind.

QUALITY BREED, BLOOD TESTED, dependable chicks of unquestionable quality. \$8.90 per hundred up. Free information. TRAIL'S END POULTRY FARM, Gordonsville, Va.

INCREASE YOUR Poultry profits with Sterling Chicks. Prompt shipments. Leading varieties. Write for catalogue and special prices. STERLING HATCHERY, Box 17, Ramsey, Indiana.

BUY OUR MASTER BREED CHICKS. They cost you no more. Every chick is backed by livability guarantee. Pure-bred sturdy stock. Selected. Brood, mated 30 years by one of America's oldest established firms. Assures more and larger eggs, bigger broilers, more profits. Blood-tested. Master Breed Single Comb Reds, Barred, Buff, White Wyandottes, Orpingtons, \$4.75, \$10.00, \$22.50—\$4.75, 100—\$8.45, 500—\$4.75, 1000—\$7.90. Large type White Leghorns, Brown, Buff Leghorns 50—\$4.50, 100—\$9.95, 500—\$29.25, 1000—\$77.50. C. O. D. Guarantee. New Hampshire 29.45; Heavy Assorted \$4.00; Prepaid. Can ship C. O. D. Guarantee 100% live arrival and replace any you lose (first two weeks) free postage. Order direct from this at CLOVER VALLEY POULTRY FARM, Box 85, Ramsey, Ind.

PLANTS SEEDS ETC.

LEADING VARIETIES, Cabbages, collards and onion plants 75¢ M. Satisfaction guaranteed. R. F. HOWELL PLANT CO., Lakeland, Ga.

PIEDMONT PLANTS—Frostproof Cabbages and Onion Plants. 500—50¢; 1000—\$1.00. Write for illustrated Catalog and cultural directions. PIEDMONT PLANT CO., Box 15, Albany, Ga.

LEADING PASTURE GRASSES, clovers. All seedpods, Crotalaria, Sesbania, beans, etc. Catalogue. DEPARTMENT R. LAMBERT'S, Dartington, Alabama.

C. O. D.—SEND NO MONEY. Frostproof Cabbages and Onion Plants. All varieties. 500—50¢, 1000—\$1.00. \$1.00—\$1.50. Prompt shipment. GIBBY PLANT CO., 1000—\$1.50. C. O. D. Guarantee.

HARDY ALFALFA \$5.90. Grimm Alfalfa \$7.50. White Sweet clover \$2.90. Yellow \$4.00. Red Clover \$10.30. All 50 lb. bushel, triple reloaded. Return seed if not satisfied. GEO. BOWMAN, Concordia, Kansas.

PAY THE POSTMAN. Send no money. Frostproof Cabbages and Onion Plants. Leading varieties. 500—50¢; 1000—90¢; 2000—\$1.75. ALBANY PLANT CO., Box 17, Albany, Ga.

PLANTS—Cabbages, Bermuda Onion 75¢ M. Lettuce, beet, \$1.00 M. Tomato \$1.50. Ready March. Paper and eggplant \$2.50 M. ready April. BULLOCK'S PLANT FARM, White Springs, Florida.

CROTALARIA SPECTABILIS—Cheapest way to fertilize—has doubled and tripled crop yields. With extra seed, increases your yield. 5¢ each cash value fertilizer added per acre, \$22.00. Free pamphlet. SIMPSON NURSERY, Monticello, Florida.

HEAVIEST YIELDS WITH OUR COTTON SEED. BEST BY FIELD TEST. Royster, Farm Belief, and Will Resist Varieties. Write for Descriptive Folder and Prices. DIXIE SEED COMPANY, Comer, Georgia.

NURSERY STOCK

FRUIT TREES, June Bud Peach in lots of 300 or more, 6-12 inch 6¢; 12-18 inch 3¢; delivered. Write for Complete Price List offering more than 300 varieties of plant material. Salesmen wanted. WAYNESBORO NURSERIES, INC., Waynesboro, Va.

2 YEAR FIELD GROWN ROSE BUSHES: Red, Pink, Shell, Salmon Radiance, Hollander, Columbia, Briarcliff, Sunburst, President Hoover, Victoria, Tallman, Sensation. All 19¢ each, postpaid. Ship C. O. D. NAUGHTON FARMS, Waynesboro, Va.

PHOTO FINISHING

ROLL DEVELOPED and eight quality prints 25¢. Reprints 3¢. Was registered No. 1 by N.E. NORTH STUDIO, North, S. C.

ROLL DEVELOPED. Two double-clear prints each negative 25¢. Reprints 2 1/2¢. Enlargement coupon. WILLARD'S, Box 3535-M, Cleveland Heights, Ohio.

FILMS DEVELOPED, any size 25¢ each, including two enlargements. CENTURY PHOTO SERVICE, Box 829, LaCrosse, Wis.

COLORED ENLARGEMENT with each film developed, a professional enlargement painted in oils and eight Gloss-color prints, DeLuxe finish, guaranteed not to fade. Super quality, speedy service, satisfaction or money refunded. LACROSSE FILM COMPANY, Lacrosse, Wis.

ONE NICKEL (AND THIS AD.) finishes your film roll. Mail to: FIFICO, Yale, Ohio. (13).

AGENTS WANTED

FREE TRIAL PACKAGES and display case. Big money making agents proposition yet. Extra trials, medicine, household remedies. New, and different. No experience or money needed. Write LUCKY HEART CO., Dept. H-31, Memphis, Tenn.

AGENTS: Smash 30 prices. Santos Coffee, 12¢ lb. 4-oz. Vanilla 8 1/2¢. Razor Blades 10 for 8 1/2¢. 100 sticks Cheviat Gum 12¢. 150 other bargains. Experience unnecessary. Write CARNATION CO., SO-4, St. Louis, Mo.

SALES KIT—FREE—Write for our Free Office and Catalog of household deals, cosmetics, etc. traps, etc. Make big money selling friends and neighbors. CLYDE COLLINS CHEMICAL CO., Dept. 18-CL, Memphis, Tenn.

MAKE BIG PROFITS writing orders for DUNLAP Pants, Jackets, Uniforms, Raincoats, Shirts. Pants \$1.45 to \$4.95. Largest commission—each bonus. Garments FREE to producers. No experience needed. Starting outfit FREE. DUNLAP PANTS CO., Dept. 256-C, Cincinnati, Ohio.

HELP WANTED

MRS. M. M. EARNED \$267 in 3 weeks (sworn statement) raising mushrooms for use in her cellar! Exceptional! Yes, but YOUR cellar, shed barn, etc. may be suitable to bring modest income all Winter! Book sample FREE (Est. 1908). UNITED, 3548-A-228 Lincoln Ave., Chicago.

MOTHERS—SPECIAL WORK. Up to \$22 a week. No home needed. Experience or investment. Give drive size. Dept. 2-118, HARFORD FROCKS, Cincinnati, Ohio.

LADIES WANTED Immediately To Show Actual samples Snap-Proofed Hosiery to friends. Up to \$25 in a week. Samples hosiery free. Send home size. American Mills, Dept. 8-118, Indianapolis, Ind.

PATENTS OR INVENTORS

PATENTS, LOW COST. Book and advice free. L. P. RANDOLPH, Dept. 716, Washington, D. C.

INVENTORS—Write for NEW FREE BOOK, "Patent Guide for the Inventor" and "Record of Invention" forms. No charge for preliminary information. CLARENCE A. O'BRIEN and HYMAN BERMAN, Registered Patent Attorneys, 658-B Adams Building, Washington, D. C.

MISCELLANEOUS

\$1000.00 FOR 1908 LINCOLN Cents, \$2.00.00 for 1912 Buffalo nickel, \$5.00.00 for 1920 Silver Dollar. Big premiums paid for coins now in circulation. Wealth may be yours if you recoup little rare money. Keep posted. Latest complete 28 page buying catalog 15¢. Bob Cohen, Dept. 156, Muskogee, Okla.

"HOW TO BREAK AND TRAIN HORSES"—A book every farmer and horseman should have. It is free; no obligation. Simply address BEERY SCHOOL OF HORSEMANSHIP, Dept. 662, Pleasant Hill, Ohio.

BEAUTIFUL SILKS or Velvets—20 pounds Postpaid \$1.00. Catalog, Samples free. VARIETY STORES, Decherd, Tenn.

PAINT—Sherwin-Williams products—from big combine factory; while it lasts—\$1.15 gallon, 5-gallon container \$5; worth and costs lot more. Enamel, red, green, some black. General purpose for implements, industrial house, barns. Dealers, jobbers can get big discounts. Other colors and brands, white, ivory, cream, gray, 6¢ gallon; 5-gallon container, \$4. Don't overlook this big money saving. Write for FREE PAINT EXCHANGE, 1418AH Grand, Kansas City, Mo.

ELECTRIFIED FENCES reduce costs 80%. Operate from battery or power current. Information from ONE-WIRE FENCE CO., B-74, Whitewater, Wisconsin.

WANTED. ORIGINAL POEMS, SONGS for immediate consideration. MM. PUBLISHERS, Dept. SF, Studio Bldg., Portland, Ore.

NOTES, ACCOUNTS, CLAIMS collected everywhere. No charges unless collected. EVERY COLLECTION AGENCY, Somerset, Ky.

FROG RAISING

RAISE GIANT FROGS
FREE BOOK We Buy What You

Brooder lays 10,000 eggs yearly. Start in Your Backyard! We pay up to \$5.00 per dozen for Nuford Giants. Any climate suitable. Write today for Free Frog Book. AMERICAN FROG RAISING COMPANY, (Dept. 2-C) New Orleans, La.