

SCIENTISTS PUT CHICK HATCHING ON EXACT BASIS

Experiments by Government Experts Are Expected to Save Millions for Poultrymen — Report Is Due.

WASHINGTON (UP) — Savings of millions of dollars annually will accrue to poultrymen if experimental work by government scientists develops as expected.

The experiments have been conducted by H. G. Barott, agriculture department poultry technologist, over a period of 13 years and are said to have resulted in finding the optimum of favorable conditions under which eggs should be hatched.

For years, Barott has worked in his extensive laboratory at the Beltsville, Md., experimental farm with "calorimeters" in which he could measure exact air conditions—the amount of humidity, gaseous air contents and temperatures—so that over a long period he could determine what air conditions were best suited to hatching.

Results Known Soon
The results of his experiments are to be published in a detailed technical report, scheduled to be off the presses in about two months.

Roughly, however, his experiments have shown that the ideal hatching conditions are: temperature, 100 degrees; humidity, 60 per cent; and gaseous makeup of the surrounding air, one-half of one per cent carbon dioxide and 21 per cent oxygen.

Barott experimented with temperatures ranging all the way from 90 degrees to well above 100 degrees; with humidity ranging from 8 to 87 per cent; and with gaseous makeup ranging from less than one-half of one per cent carbon dioxide and 19 per cent oxygen to 10 per cent carbon dioxide and 50 per cent oxygen.

He worked with 100 eggs for each of his experiments. Highest percentage of chicks he obtained from a single group was 95, but this was exceptional. He considered 80 chicks out of 100 eggs good, and thought such a percentage would justify his long years of work.

Incubation Not Shortened
Normal length of time to hatch chicks is 21 days. Barott found that raising the temperature slightly would increase this incubating period by 24 to 35 hours, but that raising the temperature just 1 per cent would result in reducing the quality of the chicks by 20 per cent. Therefore, he concluded, it would be far wiser not to attempt to speed up incubation.

The "respiration calorimeters" with which Barott worked are specially designed incubators in which all conditions can be regulated to the nth degree. Special electric grids allowed him to keep the temperature at exactly the point he wished it, and unusual air intakes permitted him to make exact measurements of air conditions and keep them at whatever point he wished.

Agriculture department officials said Barott's experiments were "one of the most detailed pieces of work" ever conducted in the field of chick hatching.

Experiments Outstanding
They explained that few persons had gone into the question seriously enough to devote years to the problem, and that if Barott's findings were put to actual use poultrymen undoubtedly would find they were producing a better quality chick as well as getting a larger percentage of chicks.

Bone new type incubators, they said, in which the eggs are kept in tiers of shelves, probably can be adapted to making use of Barott's findings without much difficulty because air conditions can be controlled within the tiers. But small dealers, who have old-type equipment and do not operate on an extensive scale, probably will not be able to put the findings into practice, they pointed out.

PLANT NEW TREES IN STRIPPED AREA

ELY, Minn. (UP)—Grub hoes have replaced the ax in the Vermilion ranger district of the Superior national forest.

All that remains of the majestic pines that once grew on the shores of Lake Vermilion are decaying stumps between these wooden mounds CCC workers are planting new trees.

A century from now timber again will be available to feed sawmills such as those that once operated at Winton, Virginia and Clouet. The reforestation of denuded areas is one of the major projects on the Superior.

Over the coffee cups, friendships are sealed and hospitality is the warmest. Let those friendly cups be filled only with the finest coffee you can find.

Schilling Coffee

One kind for Percolator Another one for Drip

MOTHER MAKES DARING RESCUE



Swimming half a mile fully dressed, Mrs. Eleanor Anderson, 24, rescued her four-year-old son and the child of a neighbor adrift in a rowboat in the sea off Quincy, Mass. She pushed and towed the lifeless craft to shore, reaching safety in a state of collapse. Mrs. Anderson is pictured with her son. (Associated Press Photo)

COURT HOUSE NEWS

Furnished by the Jackson County Abstract Co., 121 E. Sixth Street

Marriage Licenses.

Harold R. McCulloch and Suele M. Shelton.

Harold E. Lind and Loree Wilson.

James Belcher and Amy Sutton.

Stuart E. McClung and Addie A. Ewing.

Alva Merritt and Jean Spayde.

Wiley F. Phares and Marguerite K. McAllister.

Robert R. Akin and Eleanor Weiss.

James B. Purrier and Thelma M. Koroth.

George R. Ellison and Maude J. Whitman.

P. H. Cugnet and Florence York.

Merle E. Gilbert and Shirley Wiley.

Circuit Court.

Ruby Knight vs. Darrell Knight, Divorce.

George C. Ritchey vs. Lucille Ritchey, Divorce.

C. W. McDonald, et al. vs. H. R. Edsall, For money.

Martha Pegan vs. Thomas H. Pegan, Divorce.

Emma D. Kitta, et al. vs. M. B. Stiles, To quiet title.

Paul Kenworthy vs. George Backes, et al. Lien.

Bill Blaylock, et al. vs. George Backes, et al. Lien.

Home Owners Loan Corporation vs. Margaret M. Mansfield, et al. Foreclosure.

Della Barrett vs. H. P. Barrett, Divorce.

Leonard Hall vs. Clem Bradshaw, et al. Foreclosure.

Probate Court.

John C. Mann assumes business name of Mann's Department Store, 14 North Central Ave., Medford.

Ray S. Graves, Floris Hight, Harry C. Skyrman, incorporate as "Petroleum Heat & Burner Co."

Estate of W. H. Merriman, dec. Probate.

C. W. James, G. R. Glennan assume business name of "Crater Fuel and Supply Co."

Real Estate Transfers.

The Northwestern Co. vs. Joe A. Thomas, W. D. to lot on S. Riverside Avenue, Medford, \$742.

Joe A. Thomas, et ux. to W. E. Thomas, W. D. to lot on S. Riverside Avenue, Medford, \$10.

Wesley Vogel, et ux. to Archie R. Estes, et ux. W. D. to lot in Talent, \$10.

Elizabeth B. McKay to Ann G. Andrews, W. D. to 5 acres in DLO 40, twp. 39 S., R. 2 West, \$10.

Argie F. Green to J. O. Carnes, W. D. to land in DLO 46, twp. 36 S., R. 1 West and lots 1 and 2, blk. 22, lots 1 and 2, blk. 23, Fryer's Add., Eagle Point, \$300.

Helen Jewett, et al. vs. Georgia A. N. Jewett, W. D. to 1/2 int. in N. 1/2 of SE. sec. 32, twp. 36 S., R. 1 West, \$10.

S. J. Grace, et ux. to Ivan S. Hatfield, et ux. W. D. to lots 7 and 8, blk. G, Railroad Add., Ashland, \$10.

Signe Maria Martin, et al. to J. A. Yantis, et ux. W. D. to land in DLO 58, twp. 37 S., R. 2 West, \$10.

Allice Rexford to Flossie Rexford Carl, deed to pt. 8 1/4 of SW sec. 8, twp. 38 S., R. 4 West, \$100.

Joseph C. Walsh, et ux. to L. J. Reed, et ux. QCD to land in sec. 14, twp. 39 S., R. 1 East, \$1.

Fredericka Brommer to Carl J. Brommer, et ux. QCD to lot 8, blk. 1.

60 MILLION COST OF LONDON PORT IMPROVEMENT JOB

LONDON (UP) — London's great trade gateway—the Port of London—is to be developed and improved at a cost of \$60,000,000. The work will be carried out within as short a time as financial considerations permit.

The Port of London Authority has decided on this huge program of renovation and construction so that the port will be able to meet the anticipated expansion in world trade.

In 1909, for instance, the year in which the port authority was created, the net registered tonnage of the vessels which arrived and departed was 38,510,000 tons. Last year shipping traffic reached the record figure of 60,597,000 tons, an increase of 57 per cent. The tonnage of goods passed through the port last year also created a record of 40,888,825 tons. These records have been reached despite enormously reduced world trade. In the past 27 years, \$60,000,000 has been spent in improving the port. The \$60,000,000 which is to be spent will be used for replacing warehouses—some of which are more than 100 years old—electrification, such as the substitution of electric for hydraulic cranes, the widening of quays and deepening of channels to accommodate larger vessels in certain docks; and the construction of roads and bridges.

Special Cachet To Commemorate Air Mail Date

Humphrey-Andrews Add., Medford 81.

J. R. Moody to Emma A. Howe, QCD to SW of SW sec. 16, twp. 36 S., R. 4 West, \$100.

L. J. Reed, et ux. to Cyrus C. Arnold, et al. W. D. to land in sec. 14, twp. 39 S., R. 1 East, \$10.

P. J. Huber to Charles H. Williams, et al. W. D. to land in sec. 15, twp. 34 S., R. 1 West, \$40.

Wm. H. Lydiard, et ux. to Carl A. Gottsche, et ux. W. D. to part lot 1, block 1, Fruitdale Add., Medford, \$10.

W. E. Thomas to B. E. Harder, et ux. W. D. to land in DLO 73, twp. 37 S., R. 2 West, \$10.

Frank E. Stute to Fred Buchling, et ux. W. D. to lot on Iowa street, Ashland, \$10.

Charles Austin, et ux. to E. W. Watson, deed to SE of NE sec. 34, twp. 35 S., R. 4 West, \$100.

PORTLAND GRIDDERS OPEN SEASON TODAY

PORTLAND, Ore., Sept. 11.—(AP)—The 1936 grid season will get a real start in Portland today. Games scheduled: Jefferson high vs. St. Helena; Roosevelt high vs. Vancouver, Wash.; and Washington high vs. Chemawa.

Closing time for Too Late to Classify Ads is 1:30 p. m.

Smith Contractor For Beautiful New Gas Corp. Structure

The modern new Southern Oregon Gas corporation building reflects the high type of building service offered by D. B. Smith of Talent, general contractor. Mr. Smith, who is equipped to do all kinds of construction work, is gaining a wide reputation for his speed and thoroughness.

Mr. Smith is also finishing another modern new building, the Texaco service station, located on East Main street.

LINCOLN SHAFT BEQUEST VALID

RACINE, Wis. (UP)—The memory of Abraham Lincoln and his wife probably will be perpetuated here by construction of a monument in one of Racine's parks through a \$20,000 bequest provided in the will of Miss Lena Rosewall, spinster.

Miss Rosewall, who died last year, made the bequest because, her will stated, "Lincoln was a poor man who accomplished something and his wife helped him."

County Judge J. Allan Simpson overruled objections to the will.

NATIONAL SOFTBALL TOURNEY TO START

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

CHICAGO, Sept. 11.—(AP)—Forty-eight men's teams and 22 women's teams were entered today in the national softball championship tournament, which opens Saturday at Soldier Field and will continue through the final Monday night.

SLEEPY HOLLOW SYRUP

Has no equal in value!

Pure Cane and Maple
Pt. 19c Qt. 33c
Jug 5-lb. Can 63c

SAFEWAY

Prices Effective Saturday

and Monday—Sept. 12-14

Everybody likes Sleepy Hollow Cane and Maple Syrup because it's so rich in the real maple—and because it represents such a big value for the money. We urge you to get a supply this week while these featured prices are in effect!

Peanut Butter

In bulk. The ideal and economical sandwich filling for school lunches.

lb. 10c

MILK

CARNATION

Hear Dr. A. H. Dafoe's talk about Dione Quints.

famous Carnation Milk consumers, on Carnation Centennial Hour, Monday evening, July 20th.

4 tl cans

31c

Hot Sauce

3 cans 10c

Tomatoes

Josephine Brand, No. 2 1/2 tins, Standard Pack, 3 cans

29c

Brown Derby

3 CANS 29c

BEER Case of 24 . . \$2.29

Libby's Golden Banner, No. 2 tins, 2 for

25c

HOMINY Van Camps, tall No. 300 Tins, Can 5c

SPAGHETTI Van Camps, Tall No. 300 tins, 3 cans

25c

SPINACH Full of Gold, Lg. 3 1/2 tins, 2 for