Leghorn Fertility and Hatchability Are Good On Sloping Wire Floors, Research Indicates

Egg production by pullets on the sloping wire floor has been excellent since the concept was initiated in 1963

Performance of pullets reported by Bressler and Maw at the 13th World's Poultry Congiess in 1966 showed egg production of 253 eggs per pullet housed with pullets allowed 0 66 square foot floor space per bind Results on commencial poultry farms have given similar results

Pieliminary trials to obtain fertility and hatchability information with leghorn breed ers on the sloping wire floor system were begun in 1966

Four hundred leghorn females which had been in production foi eight months were mated with 18-month-old males old, was housed on the A-frame (only ones available for this sloping wile floor in House 100, made for the July to December pieliminary test) at a latio of allowing 0.62 square foot floor one male to fifteen females, in space per bird One-hundred-24 feet by 24 feet summer lay- eighty males, a few weeks ing shelters A flom space younger than the females, were allowance of 066 square foot added to this flock on April 18 per bind was allowed

week-old leghorn females was 100 were placed in the other housed in a similar shelter house (House 99) which was These females also were mated divided into two separate pens with 18-month old males at a by a central egg aisle One pen 1 atio of 1 to 15

from August 1, 1966, to November 7, 1966, and indicated the feasibility of high density housing of leghorn breeders on the sloping wire floor from the standpoint of fertility

This research report by the Penn State University departments of poultry and veterinary science science shows that poultry breeding as well as volume of egg production can be successful with pullets in dense housing conditions using the modern A-frame or V-frame sloping wile floor The report was prepared

jointly by G O Bressler, T W Burr, T A. Carter and R F Gentry of Penn State

On February 6, 1967, an experiment on a larger scale was begun using two 30 feet by 100 feet laying houses One flock of 2988 leghorn females, 22 weeks

Approximately the same Another group of 400, 26- number of females as in House (99A) had 1478 females; the other pen (99B) had 1488 fety was achieved for the period males Floor space allowance was 075 square foot per bird Eighty-seven males were added to this flock on April 18 No males were added to Pen 99B

> On May 5, the first check was made on egg fertility, and it

was found that 95 per cent were fertile in House 100 and 98 per cent in Pen 99A. No check was made on hatchability with this first egg sampling Subsequent samplings of 100 eggs from each pen showed excellent fertility and hatchability in both houses up to July 14, when this portion of the experiment was concluded

On July 17, a single flock was established in House 99 by combining the birds from House 100 with those in House 99 The center egg aisle was eliminated and nests placed at the top of the slope along the outside wall The single flock consisted of 4677 females and 290 males housed at 0 44 square foot per bırd

Samplings of 100 eggs were period to check fertility and hatchability As will be noted in Table 3, excellent fertility and hatchability continued throughout this period and up to the

(Continued on Page 28)

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