Controlled-Environment House May Mean Turkey Breeding Change

search facility at Beltsville, Md, ties and durations are likely to influence the de- "STUDIES OF THE effect of ing stock, say USDA scientists

ed-environment house for tur-led by the Agricultural Research "Now, with the turkeys housed keys, in which light, temperature Service "Light is known to be a in a windowless building, we can and humidity can be positively major factor in the onset, level, control the intensity and duraregulated Located at USDA's and duration of male-turkey fer- tion of light and have far more conditioned building now houses times needed to produce maxi- are receiving" They are under test to determine unknown

Experiments in a new U. S the effect on their fertility caus-Department of Agriculture re- ed by light of different intensi-

sign of future buildings used by light on male turkey fertility are total light reaching turkeys undturkey growers to house breed- not new at Beltsville, according to Dr A W Brant, head of poul The new facility is a controll- try husbandry research conduct-Agricultural Research Center at tility But the intensities and accurate knowledge of the total Beltsville, this windowless, air-colors of light and the lighting amount of radiant energy they several groups of male turkeys | mum response remain largely

studies for a number of years, the effect of light alone. Tempand have obtained some tentative answers in regard to supplementing daylight with artifi- to eliminate temperature changes cial light Now we need to carry as a possible environmental the work further under environmental- conditions adequate for precise determination of light requirements Previously, for ex ample, we could not be certain of the amount and intensity of er test, because they were exposed to daylight as well as artificial light "

DR. BRANT EXPLAINED that present studies in the tur-, ably be the answer

"We have conducted these key environment house relate to erature in the house is being held at a constant level in order variable until different intensities and durations of light have been tried

If the studies show radiant energy to be as important a factor in male turkey fertility as it is now believed to be, Dr. Brant indicated, they will suggest buildings for male turkeys in which daylight is excluded and absolute control of light is possible.

However, if temperature is also found to be an important factor, as a result of subsequent studies, even more complicated which both light and temperature can be controlled, will prob-

THE NEW TURKEY environment house was designed by ARS agricultural engineers to provide poultry scientists with the facilities they need for light and temperature studies. It is in no sense a farm structure, although it may prove to be a forerunner of specialized farm buildings of the future

The building features an airconditioning system consisting of three heat pumps used singly or simultaneouly to maintain any desired inside temperature withın a 50-degree range Electrostatic air filters are used. These are capable of removing 90 to 95 per cent of the dust particles from the air entering and discharging through the system Light controls provide an ample range of intensities — so far determined farm buildings for turkeys, in to be between 06 and 100 footcandles, measured 24 inches above the floor.

Stocker Cattle Remain High At Baltimore

BALTIMORE. May 12—
CATTLE AND CALVES Fed steers comprised approximately 60 per cent of the supply stockers and feedels 15 20 per cent and the balance mostly cows Only one load and few scattered head fed heifers on offer The fed steer supply was mainly good and choice grades Clearance was good on all classes All slaughter classes and stockers and feeders were moderately active to active Few steers were uncven and sold steady to mostly 25 cents higher with instances 50 cents up Fed heifers were fully 50 cents higher Cows sold mostly fully steady to 25 cents higher The large bulk of bulls sold steady with a few instances 50 cents higher Vealers were mostly steady with instances 50 cents lower Stocker and feeder steers sold fully steady the bulk of low-good to average choice 900-1185 lb fed steers brought \$27 50-30 00 with one package at \$30 50 choice steers mainly \$29 00, and up A few small lots standard and low good sold from \$26 00 27 50 A short load of 762 lb mostly good fed heifers, including a few low-choice, sold for \$20 00, two small lots 653 694 lb good grades \$26 00 27 25 Utility and commercial cows bulked at \$20 50 22 00 with a few commercial reaching \$23 00. Canners and cutters ranged from \$17 50 20 50, mostly \$18 00 and up and a few light canners down to \$15 00 Utility and commercial bulks dulked at \$23 50 25 50 with a few scattered head to \$26 50 and a few head of good grades \$27 50-27 75 Choice 180 230 lb vealers sold at \$33 00 35 00 A few head \$25 50 with an individual at \$36 00, good grades \$29 00-33 00 and standard \$2^c 00.29 00 A half load 709 lb good to choice feeder steers brought \$30 75 and one load \$20 lb medium to good \$27 50 About 5 loads 506 653 lb good to mostly choice stock steers \$31 00-32 00, two loads mostly good 500 628 lb \$29 00 31 00 Two small lots 372 478 lb mostly good stock steer calves sold fon \$30 00

HOGS Butchers were active with good clearance early Barrows and gilts were fully 75 cents higher with

lb mostly good stock steer calves sold for \$30.00
HOGS Butchers were active with good clearance early Barrows and gilts were fully 75 cents higher with interest \$1.00 in 25 up on No 1 and 2 graces Sows were very sarce and sold 25.50 cents higher The bulk of the stipply was mixed lots U S No 1, 2, and 3 180.740 lb butchers which sold at \$23.75-24.25, bulk \$24.00, 35 head No 1 and 2 mostly No 1 190-220 lbs \$24.50 3 small lots totaling 13 head No 1 \$24.75.25.00 This was no criterion of the general market One load No 2 of the general market One load No 2 and 3, 259 lb butchers sold for \$22.00 and a small lot No 3 333 lbs \$19.75 A ew mixed No 1-3, 300 400 lb sows \$16.25-19.50 with a few head No 1 under 300 lbs to \$20.00 SHEEP Two small lots 78.81 lb good and charge spring slaughter lambs

25 00 and \$28 00 A short deck near 77 b utility to mostly good spring lambs brought \$24 00 and a small lot of 68 lb utility \$23 00

Bulk Tanks and Pipeline Save Labor and Costs

The use of bulk milk tanks and pipeline milking systems save labor and result in higher quality milk, even on moderate sized dairy operations, according to Economist Stephen J. Brannen of the Georgia Extension Servıce

An analysis by him of a study by the Georgia Experiment Station shows bulk handling to have these advantages It is more economical than can handling at all output level above 30 gallons a day, the quality of milk is higher, spillage and stickage losses of milk are reduced by about six to eight cents per 100 pounds, and hauling costs were found to be lower because of larger pay loads and pickup every other day

The Georgia study also showed pipeline milking systems to be economical on farms milking 25 or more cows per day because four minutes of labor per cow was saved each day, more cows can be handled with the same amount of labor, and it was found that the labor saved would pay for the pipeline milker in an average of three years.



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THIS TUESDAY, MAY 20