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10-Lancaster Farming, Friday, November 14, 1958

#### With Live Animals

### "Sonar" Principles Used To Test **Back-Fat and Loin-Eye Depths**

An electronic device that can (curacy for the experimental apmeasure the size of a potential paratus. steak or chop in a live animal

may prove highly beneficial in livestock marketing and breed- [ful in selecting and grading hogs Cowan, conducting the Penn ing, U. S Department of Agricul and beef cattle before fattening ture scientists say.

high-frequency sound waves to determine the depth of back finish for slaughter, and thus imfat and depth and width of loin prve the uniformity of marketed eye muscles in cattle and hogs. These measurements are particularly important in selecting hogs may not given a dependable meat animals that produce a high indication of the percentage of percentage of their weight in the fat and lean meat they will yield more desirable cuts.

Dr. Richard L. Hiner, head of show meat-type characteristics meat-quality studies for USDA's outwardly, but are found on Agricultural Research Service at staughter to contain a high per-Beltsville, Md, says that ultra- centage of fat and to yield little sonic waves go through tissue lean meat without harm to the animal.

sound waves to pass through as a great aid in increasing the bounce back from the interfaces effectiveness of breeding pro or borderlines between fat, lean, grams The increased accuracy it and bone varies with distance or would permit in the selection of depth The device uses these time differences to determin the reduce significantly the time depths of the various interfaces

The nautical apparatus known as Sonar acts on the same prin-|stantial saving of time needed to ciple to find objects in water An nieasure, probe, and judge 1.1ejectronic device similar to the dividual animals by prevailing one now being tested at Beltsville, methods is' used by manufacturing firms to find flaws or faults in metals

Preliminary tests of the device are being conducted by ARS aninial husbandmen and agricultural [ engineers So far, comparisons of mimals measured by ultrasonics before slaughter with actual measurements of the dressed calcasses show a high degree of ac

If cntinued tests prove the de-

or slaughter It might be used by This device uses ultasonics -- feeders to separate groups of ani-

mals into grades to insure proper livestock. The appearance of live cattle or

when slaughtered Many animals

ARS scientists also see the use The time needed for these of this type of electronic device rieat-type breeding stock would needed to produce superior lines It would also result in a sub

> This new ultrasonic device has not proved feasible for sheep because of their fleece Contact with the animal's skin is necessary for accurate readings Such skin contact is fairly easy with cattle and hogs.

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## **Deer Winter Kill**

#### (Continued from page 6)

they did not grow very much throughout the year and some lost weight This may have been due to the poor-quality feed or not enough food.

If full-fed from late spring until fall on nutritious feed, captive dcer will grow to about double the usual Pennsylvania size, revice's accuracy, it may be help-port T A Long and Robert L State studies.

The average weight of legal bucks shot in Pennsylvania in recent years has not been over about 115 pounds.

Short feed supply in March and April doesn't seem to affect the final antler size, these studies show However, antler growth and "rubbing out" of moss are delayed.

"Nick-Chick

LÉGHORN

Florin

#### Society No. 2 **Meets With** Mrs. John Snavely

was hostess for Society No. 2 Saturday afternoon.

Mrs. Andrew Low was elected Carl Brubaker becoming secretary. Both officers will serve two year terms Mrs. Nathan Oberholtzer was named to the Flower Gift Committee.

Mrs John Dante led group Shelly were co-hostesses.

Aquar 1 3 a though the ready and 18 5 5 singing, with scripture and devotional readings by Mrs. Wilbur Thompson.

Arrangements were made for sewing at General Hospital in Mrs. John Snavely, Manheim, February and for assistance to sickness and fire victims in the community.

Mrs. Rufus Waltz, Elstonville, to the president's post, with Mrs presented a demonstration of Christmas decorations. Mrs. Snavely and Mrs. Brubaker also had a demonstration of holiday pastries

Mrs Brubaker and Mrs Margie



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