"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 hive animal If cntinued tests prove the de may prove highly beneficial in livestock marketing and breedture scientusts say
This device uses ulli asonics high-frequency sound waves to determine the depth of back 1at and depth and width of lon eye muscles in cattle and hogs. These measurements are part:cularly important in selecting meat ammals that produce a high percentage of therr weight in the
nore desrrable cuts. Dr. Richard L. Hin meat-quality studies for USDA's Agricultural Research Service at Beltsville, Md, says that ultrasonic waves go through tiss
wsthout harm to the anmmal. The time needed for these sound waves to pass through bounce back from the iferfaces of bone varies with distance or depth The device uses these time differences to determin the depths of the various intelfaces
The nautical apparatus known as Sonar acts on the same prinriple to find objects in water An ciectronic device similar to the one now being tested at Bettsvill 15 used by manuiacturing hirs
Prelimmary tests of the device are being conducted by ARS an: nal husbandmen and agncultural engineers So far, comparisons of unmals measured by ultrasonics before slaughter with actual measurements of the dressed caicas ses show a high degree of ac


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## Deer Winter Kill

(Continued from page 6) they did not grow very murh 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 unthl fall on nutritious feed, captiv deer will grow to about double port. T A Long and Robert I Cowan, conducting the Penn state studies.
The average weight of legal bucks shot in Pennsylvania in re cent years has not been ove about 115 pounds.
Short feed supply in March and April doesn't seem to affect the fimal antler size, these studies
snow However, antler growth and "rubbing out" of moss ar delayed. indication not given a dependabl fat and lean the percentage when slaughtered Many anumals show meat-type characteristics outwardly, but are found on slaughter to contam a high perean meat
ARS scientists also see the use of this type of electronic device as a great ald in mereasing the
fiectiveness of bleeding pro grams The increased accuracy it would permit in the selection of reat-type breeding stock would ieduce significantly the time needed to produce superior lines It would also result in a sub tantial saving of time needed to neasure, probe, and judge 1.7d:vidual animals by prevalling methods
This new ultrasonic device has not proved feasible for sheep be-
cruse of their fleece Contact with cruse or therr skeece is necessary for accurate readings Such skin contact is farly easy with cattle and hogs.

## …………


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singing, with scripture and deThompson. Arrangements were made for sewing at General Hospital in February and for assistance to sickness and fire victims in the community
Mrs. Rufus Waltz, Elstonville, presented a demonstration of Christmas decorations. Mrs. Snavely and Mrs. Brubaker also had a demonstration of holiday Mrs
Mrs Brubaker and Mrs Marge Shelly were cohostesses.

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## L. H. BRUBAKER

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Society No. 2
Meets With Mrs. John Snavely Mrs. John Snavely, Manheim was hostess for So
Mrs. Andrew Low was elected to the president's post, with Mrs Carl Brubaker becoming secre tary. Both officers will serve year terms Mrs. Nathan Obe holtzer was named to the Flow Mrs John Dante led group Shelly were conhostesses.
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