Conservation Research Program To Improve Appalachia Economy

million people in the Appala- soil erosion losses. chia region improve their possible use of soil and water mine how best to revitalize resources will be intensively investigated, says a U S Department of Agriculture announcement

A research team of soil scientists and agricultural en- areas gineers from USDA's Agricultural Research Service, the 12 Appalachian States, and other tederal agencies will be based at the University of West Virginia at Morgantown and investigate problems peother areas to solving prob- olivia lems in Appalachia, a region South that covers 373 counties in the dozen States

Although the program covers a broad area the scientists have specific goals (1) providing more clean water ioi communities and for agiiculture recreation and industrial uses by improving water storage facilities and by minimizing pollution and (2) developing soil and water con--envation practices that will insure more efficient use of

Milk Promotion Will Require 8 Million \$ In '66

Next year, dairy farmers will invest a total of \$82million in the American Dairy Association's non-brand advertising, merchandising, research, and public relations program

A budget for that amount was approved by the Board of Directors of ADA at a recent meeting in Denver

Non-brand consumer advertising for milk and other dairy foods will take 71 perent of the budget The remainder will be used to finance ADA's research merchandising and public relations activities

Advertising for the various products is allocated according to milk producers' re-

In the ADA program dairy raimers invest two cents for each 100 pounds of milk marketed Part of the fund is used for in-state programs, the balance for the nationwide efforts

Conservation Needs

(Continued from Page 1)

of the Department's study reported that 6098 tracts of land in 66 counties will be examined The intormation gained will indicate the kind of treatment the land needs tor conscitation and improved use It will be available to lo il and state agencies planning groups lind developers and other land users

This study Wikene said will und ite the original Conservición Needs Inventory competed in Pennsylvania in 1959 A Star committee will stucture the survey which will be critied out by local con-ivation needs committees orsanized in each of the

The survey is expected to be completed by 1967 and the information will be published and made available to interested people agencies, and organizations throughout the Commonwealth.

Ways of helping the 17 available water and reduce

subsoils laid bare by erosion. strip mining or uririn development They also will study methods for improving vegetative cover in these critical

Appalachia region

Is Best Indicator Of Heat Effects On Body

a newly designed thermometer sign of discomfort. fitted into the animal's ear The scientists will conduct canal to help find reasons for ing hot weather

thermometer to measure the dany husbandman A J Guidry Funds for this work will and research dairy husbandcome from momes appropri- man R E. McDowell thought ated by Congress to promote the ear thermometer might be economic development of the equally useful for related dany cattle research

The work will be done in . To adapt the ear thermoculiar to Appalachia - prob- cooperation with agricultural meter to their needs, the scienlems not being studied else- experiment stations in Ala- tists studied the cow's ear where They also will adapt bima Georgia Kenturky Ma- canal carefully and fashioned information from research in ivand New York North Car- a flexible probe that reaches Ohio Pennsylvania 412 inches into her ear -Curolina Tennessee, within is inch of the ear dium, 7 hours ARS technicians took keep cows as productive as

The cows did not seem to degrees. ARS scientists "play it by mind the tympanic thermoear" when they want to take meter; once the thermometers

Closeness to the ear drum is Medical researchers have stress research. The ear drum heat are believed to originate. meter. When the barn temperature changes; the ear thermometer mus would respond.

Virginia and West Virginia or tympanic membrane. This ear temperature readings every possible despite hot weather.

Cow's Ear Temperature explains the new tool's scienti- 2 minutes while they excled fic name: tympanic thermo- air temperature in the experimental barn from 65 degrees to 112 degrees F. and back to 65

To the scientists' satisfaca cow's temperature. They use were in place, they showed no tion, tympanic measurement sensed changes as minor as one-fiftieth of a degree Fahrenheit. Ear temperature proveconomy through the best other basic studies to deter-reduced milk production durpanic thermometer for heat-changes of temperature in the barn and undisturbed by temfound the ear thermometer provides the most practical apperature fluctuations caused more reliable than the rectal proach from outside the body by passage of waste material. to the hypothalamus, the or These temperature fluctuations effect of heat on humans ARS gan at the base of the brain distort prolonged readings where all body reactions to made with a rectal thermo-

> Body temperature is, of quickly shows the resultant course, only one of the rechange of temperature in the actions Guidry and McDowell body to which the hypothala- measure when they increase the heat in the barn. They also check functions such as breath-During a recent test, tym- ing, blood pressure, sweating, panic thermometers remained and digestion - in a continuin cows' ears for as long as ing effort to discover ways to







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