8-Lancaster Farming, Saturday, March 9, 1968

"Actually in bandying about this impressive-sounding deficit the \$1.9 billion (travel deficit) to well under \$500 million."figures, the politicians ignore John Hughes in the New York many considerations that reduce Daily News



MR. AND MRS. LEROY R. PFAUTZ, Stevens R1, received a colored air photograph of their farm Tuesday night, after being named "Conservation Farmer of 1967", by the Lancaster County Soil and

Soil & Water (Continued from Page 1)

Keever estimated these strips, eit Brinton, Arthur Brown, Levi if placed end to end would en- Brubaker William Bucher, Leh- lough, Clyde McSparren, Richcircle the earth four times

'Pennsylvania was slow in starting conservation,' he said "But they have made up for it as the years have passed "

In the awards program, Le- Claud Fuller. Amos Funk, Roy R Pfautz, Stevens R1, was J Clarence Garber, Monroe man Shirk. ecognized for his outstanding Garber Norman Garber. Earl

and was presented a colored air P M Habecker, Charles Hart, John Slaymaker, A B Stottlephotograph of his farm by the Abram Harnish, A Huber Har- myer, Mrs Howard Wagner, District Abner J Houseknecht, nish, J Lloyd Harnish, Sam Har- Roy H Weaver, Mrs Gertrude veteran Soil Conservation Serv- nish, Henry H Hackman, Hirice worker was presented a old C Herr. Ivan Herr. plaque for "Outstand ng Serv- John Herr. Ezra H 100

Water Conservation District at their annual meeting. Making the presentation at the Quarryville Methodist Church is Abram D. Dombach, (right) County Com-L. F. Photo missioner.

were also honored They are Chailes Anderson, Melvin John Kreider, Edgar Lefevre, cause of the stup cropping Mc- Boyce, John A Breneman, Rob- Joseph Lesley, John J Long,

See Other Photo Page 13

1us Ferguson, Walter Ferguson,

work of conservation on his farm Groff, Owen Groff, Paul Groff, Shoemaker, Lewis Shoemaker,

John Herr, Ezra Hershey, ard Reese, W Martin Muth, James Hess Paul Hess, Harry Ivan McKeever, Ralph Ruble,

time supporters of conservation Victor Keene, Clayton Keener, John Kindig. Clyde Kreider. Milo McClune, John McCol-K Mylin, R V Pennington, Charles Preston, Elmer Probst, J A Railing, Charles Ressler, William C Ressler, Carl Rey-

nolds, Claude T Roland, Her-Almus Shoemaker, Arthur

Weicksel, Samuel Wiker, Clair H Witmer, James Wood, Rich-Farmers who have been long- Houser. G Jackson, Roy Keene Abner J Houseknecht



Penn State Researchers Find Cure For Ketosis

for ketosis — a puzzling disease the treatment himself after a team theorized that ketosis was that afflicts cows at the peak of single visit from the veterinari- linked to the temporary lack of milk production - has been de- an, the report explained The some vital nutrient veloped by a team of research- new experimental treatment ap- The Penn State researchers ers from Penn State University pears to give quicker recoveries believe that they have now pinthan other treatments which in- pointed the cause of the disease volve insulin and cortisone-like as a methionine deficiency which drugs, the scientists pointed out triggers off a chain of detrieased cows were injected with producing machinery Previousmethionine, then given daily ly an upset in carbohydrate medoses of the poultry feed chem- tabolism had been blamed ical in capsule form, the cows were brought back to high level by the fact that methionine milk production At the same an amino acid building block for time, the metabolic upset re- good milk protein - is produced sponsible for the disease was at a very low level by the vercorrected The material in the capsules is stomach or rumen Any drain chemically related to methion- on the methionine supply could ine and has been used for years therefore have serious nutrition as a poultry feed supplement al repercussions Ketosis - which bears a su- Its official chemical name is Careful analysis of the blood "sub-clinical" stage Scientists have been studying ids" that the blood contained an entire dairy herd They knew es in the blood called phospho-

ably due to variations in the cow's feed

Because the disease usually occurs when the cow's system is in "high gear", producing milk at such a level that she can't eat A highly effective treatment that the farmer can continue enough to keep up, the research

man Burkins Ross Donley Cy- ard Mellinger, Elam Mull, Clyde

One injection of a vital nutrient called methionine, followed by treatment with capsules con-'aining a well-known poultry 'eed supplement, quickly brings liseased cows back to normal. report R D McCarthy and G A Poster of Penn State's Department of Dairy Science and L C Griel Jr of the Department of Veterinary Science

Their findings, supported in part by the Penna State Department of Agriculture, appear in the March issue of the Journal of Dairy Science

perficial resemblance to human DL alpha hydroxy gamma me- of the University's Holstein diabetes - annually afflicts thylmeicapto butyrate calcium dairy herd clarified what may about a million cows in this The Penn State team suggests happen when the methionine-decountry, causing them to go off that the capsules might also be ficient cow gets ketosis The leed, lose weight and reduce used to prevent the disease from analysis showed a decline in cermilk output At the same time, developing while it is still in the tain blood serum proteins and a their milk develops an off flavor. due to the accumulation of substances called k e t o n e s in the ketosis for about 45 years, but In the complex chemistry unblood stream In some cases, until now they haven't been able derlying milk production, meththe disease results in serious to prove why it appears sudden- ionine appears to help hook up mental disorders in the affect- ly and spreads quickly through essential proteins with substanced cows

A major advantage of the in- that it was not caused by a lipids, the Penn State team jection-capsule combination is "gorin" or virus, but was prop. found.

Within three days after dis- mental events in the cow's milk-

Their suspicions were aroused satile bacteria in the cow's first

rise in the amount of "fatty ac-

