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Printed Pattern | Calves May Be Wintered Safely On Minimum Amount of Protein

their weight on low quality ever, calves can get along on less. winter forage.

according to experiments at USDA's Agricultural Research enter, Beltsville. This cuts in half previous recommended minimum allowances for wintering calves

Along with the protein, of course, cattle must get enough calories to maintain body weight This is three pounds of TDN (total digestible nutrients) daily for a 400 pound calf

Recommended protein allowance set up by the National Research Council for a 400-pound a daily gain of one pound. This gains and good beet

Beef calves can get by on very is the lowest protein allowance relittle protein—recent research commended for calves so far by shows just how much—when they the Council ARS research shows must be limited to barely holding that under some conditions, how-

Protein supplements are expen-A 400-pound calf on a main- sive Beef producers forced to tainance ration (not gaining winter calves on skimpy rations weight) does all right on as little need to know exactly how much as 03 pound of digestible protein protein is enough for maintendaily for as long as six months, ance Whether or not a cattleman chooses to feed for winter gains or for maintenance will probably depend on his estimate of profits

This study by ARS animal physiologist C F Winchester and coworkers follows two other studies using identical twins beef calves. Growth of calves six to 12 months old was interrupted for six month. with no ill effects when diets included enough protein, carotene, and minerals Animals recovered quickly and profitably.

These scientists later showed growing calf is 09 pound a day that animals three to four months for a daily gain 1.6 pounds Under old could lose weight temporariwinter range conditions 0 7 pound | ly on low-calone winter forage of protein a day is suggested for and still recover to make good

Pennsylvania Taxpayers Benefit From Soil Conservation Districts

culture today said all Pennsyl- age structures and ditches are vania taxpayers benefit from soil much lower in areas where farmconservation districts

State Secretary of Agriculture | hill," he added William L. Henning said a highway survey shows maintenance water conservation.

He explained that a Pennsylvania Department of Highways from each management method. survey conducted in York County shows that it costs \$116 a year to maintain 1,200 feet of highway in an area where farmers don't practice conservation, however costs were only \$9 yearly for 1,200 feet where erosion is reduced through conservation practices

Road maintenance savings due to conservation are not recognized as much as they should be, accharge of maintenance Costs of servation Commission

The State Department of Agri-, grading berms and cleaning drainers "point their plow around the

Roadside development supervisor Ralph Chamberlain says such costs were reduced by 12 times tax saving advantages have resultwhere farmers practiced soil and ed in close cooperation between soil conservation districts and highway personnel

He cited examples such as prompt stabilization of road banks to prevent soil from washing on faim fields and cooperative work to coordinate state road drainage systems with conservation plans of district cooperators.

Patterns of cooperation are developed by agreements between the highways department and each of the 48 county conservacording to Edwin Jones, assist- tion districts in Pennsylvania, acant chief highways engineer in cording to the State Soil Con-

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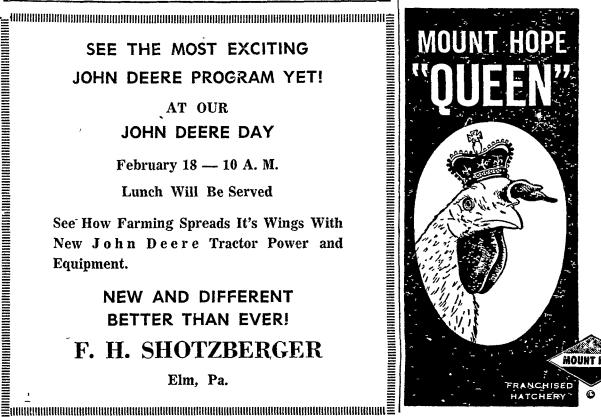
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