Named assistant

extension agent

ıncludes

Lackawanna,

Should you supplement vitamin A for improved cattle production?

A can help cattlemen realize good production efficiencies, says Hoffmann-LaRoche Inc. This vitamin is essential to help the animal's body build various defenses against infectious disease and stress.

According to research conducted at the University of Florida, adding supplemental vitamin A to

SCRANTON — Ellen R. Katz has been named to

Penn State's Cooperative

Extension Service staff as

assistant Extension agent

serving as an area farm and

home management agent in

the Northeast Extension

Thomas B. King, Penn

State associate dean for

extension, who announced

the appointment said that

Ms. Katz already has begun

She is responsible for

planning and conducting

educational programs

focusing on farm business

management and family

financial planning in the

Region.

her duties.

NUTELY, N.J. -- Vitamin have adequate nutrients increased rate of weight gain of stressed fattening steers, compared to stressed cattle receiving no vitamin A

weather stress.

compared to cattle main-

stuffs during harvesting,

processing and storage, they

Supplemental vitamin A

should also be fed to com-

pensate for variations in the

ability of the animal to

convert carotene to vitamin

A activity. Conversion is

influenced by breed, nitrate

and nitrite intake, intestinal

parasites, stress, changes in

thyroid function, biological

variations among cattle, and

phosphorus and protein

Thus, vitamin A sup-

plementation of cattle

rations is important to offset

factors that cut vitamin A

availability and utilization

and, thus, prevent deficiency

and allow optimum per-

levels in the ration.

formance.

claım.

occur in feedstuffs of vegetable origin, these feedstuffs do contain carotenes that can be converted to vitamin A activity in the intestinal wall of the animal. But the efficiency of conversion depends on the amount of carotenes consumed and the types of carotenes supplied by

pound.

However, cattle do not efficiently convert carotene to vitamin A activity. Rats generally convert 1 milligram of beta-carotene to 1,667 I.U of vitamin A activity, while cattle nor mally convert 1 milligram of beta-carotene to 400 I.U of vitamin A activity

Vitamin A should be stuffs, says Hoffmanare due to lower carotene levels in moldy and light weight corn, compared to

fortification. In another university

to a temperature of 110° lost three times the vitamin A cattle rations, presumed to activity from liver storage,

seven county region which

Monroe, Pike, Schuylkill and

Wayne. Her office is in the

Lackawanna county Ex-

A native of New York City,

Ms. Katz graduated from

Cornell University with the

bachelor of science degree in

Agricultural Economics. At

Cornell she was a member of

the Collegiate Chapter of the

tension Office in Scranton.

Carbon,

Luzerne.

study, researchers studied vitamin A metabolism in cattle subjected to hot Fattening cattle exposed

tained between 75° F and 89° In additional studies, cattle without shade lost two and half times as much of their vitamin A liver stores as cattle with access to

While vitamin A does not

feedstuffs.

Future Farmers of America and the Ag POC-Student Positive Action Council. She is currently a member the American Agricultural Economics

Of the dry roughages commonly used in beef cattle rations, dehydrated alfaifa meal has very high carotene content, averaging 28 milligrams per pound, while non-legume hay has very low carotene content. averaging 6 milligrams per

supplemented in cattle rations to offset variations in carotene content of feed-LaRoche These variations sound corn, and carotene losses occurring in feed-



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