# Selenium Deficiency Explained

feed-this is the small amount some circumstances. of the element selenium neces- Injectable products - some of sary to prevent certain diseases which contain both selenium and

could have been prevented or ian. David C. Kradel, assistant pro- ages and grains, some of which tessor of veterinary science of the protreated with selenium, reports A survey of Pennsylvania fortessor of veterinary science at came from farms with "selenium-Penn State.

animals become stiff, are reluctivition Laboratory, Ithaca, NY. tant to move, and may be unable One form of white muscle distorise. Many develop a complicate destroys portions of the and Marketing Service said the

ti olled in several ways.

Grains and certain feed mill growing hogs. supplements produced in the prairie states, an area of high When these products are mixed heart disease sults.

certain other nutrients, addition- cease as suddenly as they started. al supplementation with vitamin Selenium deficiency has been L. methionine, or high quality associated with a disease of hogs

in both livestock and poultry. vitamin E-are available for use Each year Penn State's Animal in livestock and afford practical Diagnostic Laboratory encoun control in many situations. In-

responsive" diseases, has shown White muscle disease, also these to be low or borderline in ACF Produce, Inc., Newton, Pa., Pennsylvania firm was advised of bination of numerous interrelatcalled stiff lamb or stiff calf dis-selenium content. This correlates has been suspended under the the complaint, but did not anease, is the most common "selen- with selenium deficient soil areas Perishable Agricultural Com- swer the charges USDA's Judinum-responsive" disease encoun- found in the northeastern states modities Act, effective June 1, cial Officer ordered payment of tered. This condition, as sug- and the Pacific northwestern for failing to pay a reparation the full amount claimed due. gested by its name, affects the states The plant analyses were award of \$1 425, the US DepartThe produce trading license of precisely define the necessary muscles of lambs, calves, foals, done by Dr W. H Allaway of ment of Agriculture reported Johnie Stanley Banana Co. Inc., combinations pig, and chicks. These young the U.S.D.A. Plant Soil and Nu- recently

cating pneumonia prior to death heart muscle and young animals firm and its officers, directors modities Act for failing to pay a Such diseases may be conmay be found dead without prior and stockholders—Celeste Ferri, USDA said signs of illness The heart form Angela M R Pilo, and Mary is observed in thrifty, rapidly Piro Ferri—are not entitled to

prior signs of illness. One or sylvania firm had failed to pay transaction. Because the amount of selen- more hogs may die over a sevium needed depends in part on eral day period and then losses

"sawdust" liver, a cause for liver thesis. condemnation at slaughter. Baby Also associated with selenium have been observed in Pennsyl-

and called hepatosis dieletica. In brain condition, or with fluid ac- "tying up" in horses, and a type fat beef cattle this is known as cumulation called exudative dia- of infertility in ewes and possibly

chicks may be afflicted with en-deficiency are certain cases of vania.

### ters what are termed "selenium- jections should be given only on responsive" diseases—cases that recommendation of a veterinar- ACFProduceTrading License Is Suspended

The produce trading license of for a truckload of potatoes. The

708 E. 2nd St. Huntington, W

C&MS officials said a Winstonconduct business subject to the Salem, N.C. produce firm com-PAC Act until the reparation plained that the Huntington firm Because of the red hemor- award is satisfied and the license had failed to pay for three trucksoil selenium content, are ade rhages in the heart muscle, the suspension is lifted. They cannot loads of bananas purchased. The quate or high in this element condition is called mulberry be employed by another PACA Stanley firm was advised of the licensee without USDA approval, complaint but did not answer the with ingredients grown in selenium deficient areas, a feed with between 100 to 150 pounds and
shipping firm in New Brunswick, ordered payment of the full adequate selenium usually re- often are found dead without- Canada claimed that the Penn- amount claimed due for each

One pound in 5,000 tons of protein may be practical under primarily affecting their livers cephalomalacia, a degenerative unthriftiness in lambs and calves, cattle. Many of these diseases

> Kradel pointed out that although these conditions result from a selenium deficiency, this is an over-simplification of a very complex problem.

Research and field observations have shown that these diseases occur only when a certain coming soil, plant, animal, and environmental factors is present. Often scientists are at a loss to

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