



A LOT OF GOOD BEEF is going through the Lancaster Union Stock Yards these days. This mixed lot of choice and prime steers moved through the Yard last week, being consigned out of the County. In-

creasing demand from Western growers who are back in the cattle market after the drouth is causing a generally high level in price for good quality feeder cattle. (LF Photo)

Penn State Finds Internal Browning Caused by Tobacco Mosaic Virus

Cause of a mysterious tomato disease that has been worrying growers and processors for years has been established by a plant pathologist at the Pennsylvania State University. John S. Boyle, associate professor of plant pathology, found that an abnormal ripening disorder of tomato, commonly called internal browning, is caused by the tobacco mosaic virus.

No cure is yet known for internal browning, Dr. Boyle points out. He thinks it will take some time to develop a remedy. On one hand, there are no lines to tomato immune to tobacco mosaic virus from which to develop disease-resistant plants. Inoculation (vaccination) has been tried with young plants without success. And virus decreases yield when

introduced into young plants. The disease has been carefully studied under natural conditions on farms in southeastern Pennsylvania, as well as in laboratories and on test plots of the Agricultural Experiment Station.

Dr. Boyle says the disease is widespread in the eastern United States and that many commercial growers have suffered serious crop losses. The browning causes an unattractive appearance and the tissues of the fruit become tough and cork-like, making it unsuited for either the fresh markets or the processors. There is no danger to human beings who eat infected tomatoes.

Working on the project with Dr. Boyle was David C. Wharton, of Avoca, who received his doctor of philosophy degree in plant pathology last June.

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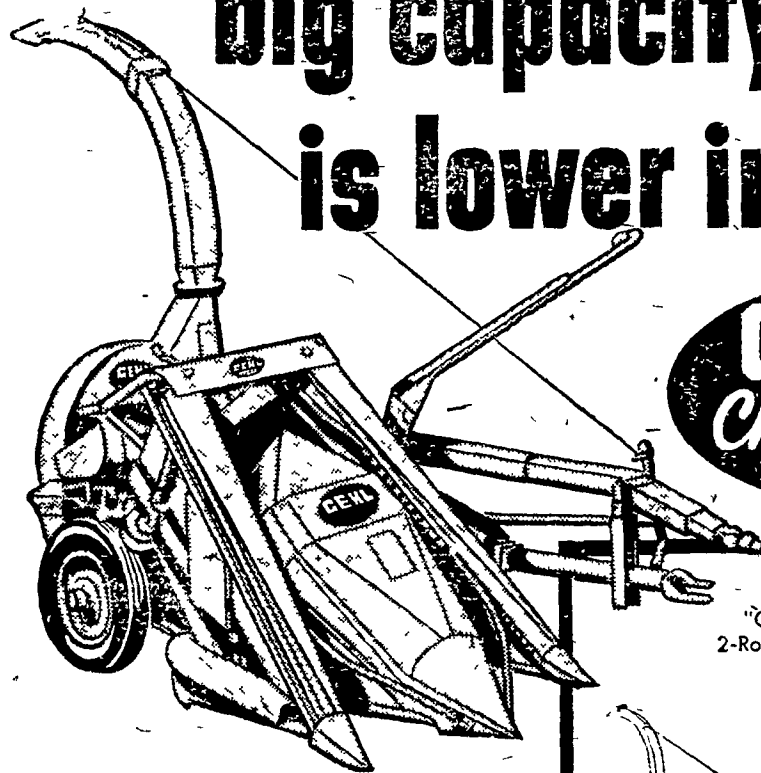
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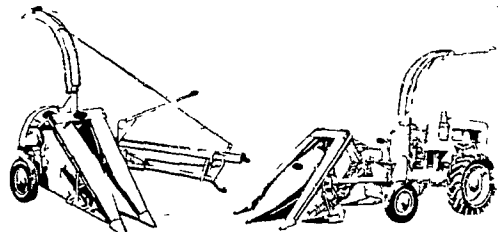
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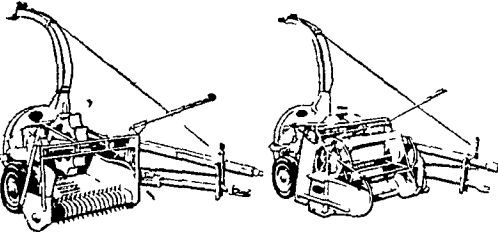


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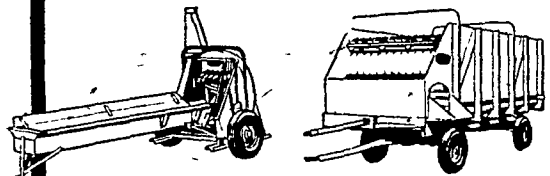
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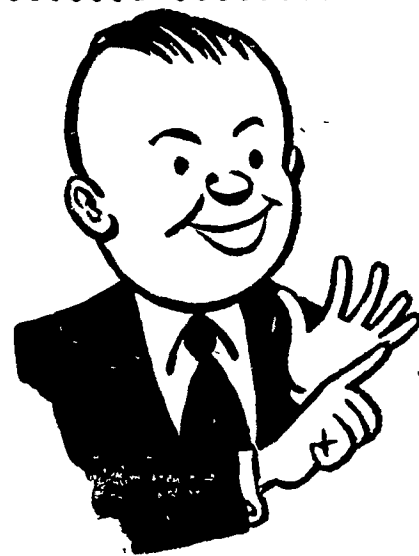
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