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Penn State Scientists Report Dairy Advance

Food scientists at The Pennsylvania State University are the first to determine the levels of various fat-protein particles called lipoproteins circulating in cows blood during lactation and pregnancy. The findings were reported Thursday during the annual meeting of the American Dairy Science Association at Virginia Polytechnic Institute and State University, Blacksburg, Va.

The investigations showed that the very low density lipoproteins carry fat in the blood to the mammary gland during lactation or milk secretion periods. The research is the work of Dr. Barbara C. Raphael and Dr. Paul S. Dimick of the Department of Dairy Science at Penn State.

Milk production and fat associated with lipoproteins increase to a peak as the process of yielding milk accelerates within the mammary gland, they explained. Then both decline gradually during the remainder of the lactation period.

By examining blood lipoproteins, one can look at the source of milk fat and also gain valuable insight into the role the lipoproteins play within the body, they stated. Such studies also aid in a better understanding of the

Discovered Yarn's Effects
John Mercer, an English calico printer and chemist, discovered the effects of mercerized cotton yarn in 1844 and was granted an English patent in 1850

interrelationships between circulating fat and heart and liver disease.

The very low density lipoproteins, one of four major classes, exist in cow's blood in low concentrations during milk production since they are removed rapidly by the mammary gland, Dr Raphael pointed out. On the other hand, these lipoproteins increase sharply in the blood when the cow is not producing milk—since the need for fat in milk synthesis has stopped.

To Secure Permit For Farm Ponds

The proper management of the farm pond requires some attention at this time of the year. Many pond owners report heavy growth of algae and various pond weeds. These are very difficult to control with the rapid turnover of the water in the pond. Before the pond may legally be treated to eliminate these problems a permit should be obtained from the Pennsylvania Fish Commission. Applications are available at our Extension Office for this permit. The name of the chemical must be mentioned and approved before the pond should be treated. Farm pond owners are urged to secure this permit and not take the risk of treatment without permission



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