

FACTS FOR DAIRYMEN

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Conserve Phosphorus in Feeding

Shortages of essential items for farm production are a common occurrence these winter days. Most of the shortages are related to spring crop production such as seed, fertilizers and of course fuels. Some shortages of items for animal production are beginning to catch up with us. In many areas the supply of phosphorus for use in animal feeds would have to be on the "shortage" list.

Locally the suppliers of animal feed phosphorus tell us they are capable of handling their customers on a routine basis. Nevertheless, it is essential to not waste this important mineral. Dr. Dick Adams, our dairy nutritionist at Penn State says there are several ways in which phosphorus use in feeding

HIGH DAILY BUTTERFAT AVERAGES OF LANC. CO. DHIA MONTHLY REPORT

| OWNER | BREED | DAYS ON TEST | NO. COWS | % COW DAYS IN MILK | MILK LBS. | % FAT | FAT LBS. |
|------------------------|-------|--------------|----------|--------------------|-----------|-------|----------|
| Amos & Eleanor Hershey | R&GrH | 31 | 27.0 | 93.0 | 45.8 | 4.4 | 2.02 |
| Floyd M. Nolt | R&GrH | 30 | 32.2 | 87.4 | 48.5 | 4.1 | 2.00 |
| John N. Shirk | R&GrH | 29 | 37.1 | 91.0 | 55.6 | 3.5 | 1.97 |
| Henry & Paul Martin | RH | 27 | 36.6 | 92.9 | 49.9 | 3.9 | 1.96 |
| Aaron E. Beller | RH | 31 | 22.3 | 93.1 | 46.7 | 4.2 | 1.94 |
| John P. Lapp | R&GrH | 31 | 39.9 | 91.8 | 47.3 | 4.1 | 1.94 |
| Ben K. Stoltzfus | R&GrH | 29 | 35.4 | 81.9 | 49.3 | 3.9 | 1.92 |
| John S. Yost | RH | 24 | 33.8 | 83.7 | 44.9 | 4.3 | 1.91 |
| Earl N. Landis | R&GrH | 29 | 49.9 | 91.4 | 51.0 | 3.7 | 1.91 |
| Albert E. Fry | RH | 35 | 32.4 | 96.0 | 49.1 | 3.9 | 1.90 |
| Parke H. Ranck | RH | 25 | 54.4 | 88.1 | 46.3 | 4.1 | 1.88 |
| J. Z. Nolt | R&GrH | 33 | 34.3 | 84.9 | 48.0 | 3.8 | 1.88 |
| Ivan M. Hursh | R&GrH | 32 | 44.1 | 86.1 | 46.8 | 4.0 | 1.88 |
| Weidler Grube | R&GrH | 31 | 21.5 | 95.3 | 47.6 | 3.9 | 1.88 |
| Samuel F. Long | Mix | 30 | 43.0 | 79.1 | 48.5 | 3.9 | 1.87 |
| Abraham Shelly Jr. | R&GrH | 31 | 37.3 | 95.4 | 48.5 | 3.9 | 1.87 |

dairy cattle may be reduced considerably.

First and foremost is to stop free-choice feeding of phosphorus supplements for cattle being force-fed minerals. Free-choice phosphorus supplements are essential only for cattle that are not receiving supplemental minerals via the grain mixture or metering them on silage, etc. Thus only young stock or dry cows fed forage or pasture with little or no grain may need a phosphorus supplement on a free-choice basis. It is

essential on all-forage rations because forages at best are relatively low in phosphorus content.

The levels of phosphorus in grain mixtures fed to dairy cows may be lowered appreciably in some cases. Most dairy feeds do not need to contain over 0.5 to 0.6 percent phosphorus as fed. The level includes both that naturally contained in ingredients and any supplemental phosphorus that may be needed. If supplies of phosphorus supplements are inadequate to meet needs in

grain mixtures, more by-product ingredients that are relatively high in phosphorus may be included. High phosphorus-containing feed-stuffs include wheat bran, mids, corn gluten feed, malt sprouts, distiller's grains, brewer's grains, hominy, cottonseed and soybean oil meals as well as meat and bone scraps.

Lack of sodium phosphate to offset high-calcium forage can be alleviated by feeding more grass or corn silage, rather than depending so heavily on legumes. This is

Wilson Honored for Genetic Research

Dr. Lowell L. Wilson, professor of animal science at The Pennsylvania State University, has won the 1974 education and research award of the American Polled Hereford Association. The honor named Wilson to the Association's Hall of Merit for "dedicated time and talent in education research and for applying his knowledge and experience in the field of genetics."

"Through his research and interpretations of practical animal breeding and inheritance, Dr. Wilson has enhanced the knowledge of animal breeders in important economic traits," the award stated. The occasion was the annual meeting of the Association in Denver, Colorado.

Wilson conducts research at Penn State in genetics, breeding, management, and meat studies with beef cattle and sheep.

He is the author or co-author of over 90 technical articles or abstracts and some 135 Extension bulletin and magazine articles. Wilson serves as technical

consultant to several breed associations and many private beef cattle and other agricultural operations.

He is in demand for speaking on many different aspects of livestock production, and has traveled extensively in Argentina, Columbia, the Caribbean, Canada, Mexico, and in practically every state in the U. S. In the past six years, he has guided the programs of over 18 master of science or doctor of philosophy candidates.

Wilson was Extension beef cattle specialist at Purdue University from 1964 to 1966 before coming to Penn State. Prior to that he was a research assistant at South Dakota State University where he received the master of science and doctor of philosophy degrees. He served as a research assistant with the Jacques Seed Company of Cuba City, Wisconsin from 1958 to 1960.

His honor societies are Sigma Xi, Gamma Sigma Delta, Sigma Phi, and Alpha Tau Alpha. He is a member of the American Society of Animal Science, the American Association for the Advancement of Animal Science, the Pennsylvania Academy of Science, the American Genetics Association, the American Meat Science Association, the American Forage and Grassland Council, and the American Dairy Science Association.

particularly true in feeding dry cows. If high-calcium forage such as alfalfa is limited to not over 25 percent of the forage ration for dry cows, milk fever and reproductive problems may be avoided in many cases. Most cows in milk can tolerate a considerable excess of calcium in the ration.

AGWAY

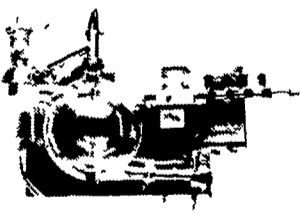
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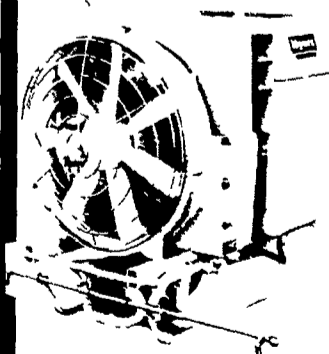
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