

## Energy-Protein Balance in Feed Important to Layers, Research Shows

Dr. Gerald F. Combs of the University of Maryland recently reported to poultrymen the results of experiments at that institution which indicated the necessity of poultrymen being extremely careful with the energy-protein balance in their feed for laying hens.

Most feed manufacturers are increasing the amount of fats in their feeds as tests have shown that feed efficiency increases in proportion to the amount of fat added. Experiments at the University of Maryland show that as energy is increased in the feed the amount of protein must be increased.

Historically the amount of protein in a feed was expressed in percentage of protein to the total ration, however, with the use of less fibre and more energy in the feed the protein must be calculated on a basis of calorie-protein ratio.

The feed manufacturers are formulating their complete feeds with the calorie-protein ratio in proper balance and the poultryman need make no adjustments. It is in the feeding of mash concentrates with a grain mixture that the feeder must carefully calculate his proportions if he is to maintain a balance between calories and protein.

The mash concentrates will indicate the calorie content on the

label but as the calorie or energy content of various grains such as corn, wheat or oats have a considerable variation in energy content, careful calculation must be made to have an energy or calorie ratio to protein of 59 to 1 which is considered about right to maintain 70 per cent egg production

## Manheim Twp. Student Wins P.P.&L. Award

Lois Anne Mecum, 1025 West Ross St., Lancaster, is one of six winners of Pennsylvania Power & Light Company scholarships, Chas. E. Oakes, PP&L president, announced Monday, May 13.

Miss Mecum, who is a straight "A" student at Manheim Township High School, Neffsville, has selected Dickinson College to prepare for a career as an English teacher or in journalism. She is editor of the high school paper, co-captain of the hockey team, member of the National Honor Society, secretary of the French Club, participated in junior and senior class plays and is a member of various other clubs. In addition, she holds the American Legion Award for outstanding citizenship and is active in youth and other organizations in her church.

## Barter Program At Standstill During Study

The barter program, under which agricultural commodities are exchanged for minerals and other strategic minerals from foreign countries, is being revised to emphasize its basic objective of net increase in export of surplus agricultural commodities, the U. S. Department of Agriculture announced Friday.

The Department has been making a detailed review of barter operations, in the light of changes in the overall foreign trade situation. Exports of agricultural commodities, particularly cotton, have increased sharply in the past year or so. The dollar exchange situation has improved in a number of foreign countries. These general developments prompted a re-study of safeguards against the substitution of barter transactions for dollar sales, without net gain in total export of agricultural surpluses.

Pending this review and the development of program revisions, the Commodity Credit Corporation has been withholding further negotiation on proposed barter contracts since the end of April. The barter program is still in effect and will be reactivated as soon as the current revisions are completed and announced.

Department officials say that the revised program will have the objective of seeking to make sure that future barter contracts result in a net increase in export of agricultural commodities.

## Holstein Assn. Lists Records Of County Cows

BATTLEBORO, Vt. — The Holstein Friesian Association of America has announced the completion of official production records by registered Holstein cows owned by the following County breeders:

Harold K. Book, Ronks — Milked twice daily for 313 days, Roaring Maples Lucifer Betis produced a total of 13,754 lbs. of milk and 535 lbs. of butterfat as a 4-year-old.

Conoy Farms, Bainbridge — Milked twice daily for 365 days, Strickest Nettie Girl produced a total of 19,123 lbs. of milk and 705 lbs. of butterfat as a 8-year-old.

Paul H. Eby, Cochranville — Milked twice daily for 359 days, Willow Grove Acme produced a total of 15,508 lbs. of milk and 614 lbs. of butterfat as a 13-year-old.

J. Mowery Frey, Lancaster — Milked twice daily for 35 days, Wightwick Glenafon Rachel produced a total of 16,232 lbs. of milk and 690 lbs. of butterfat as a 5-year-old.

J. C. & Jay Garber, Lancaster — Milked twice daily for 351 days, Hi Ester Marigold Violet produced a total of 14,515 lbs. of butterfat as a 3-year-old.

Robert C. Groff, Quarryville — Milked twice daily for 323 days, Millie Tillie produced a total of 12,771 lbs. of milk and 476 lbs. of butterfat as a 5-year-old.

Elvin Hess, Straasburg — Milked twice daily for 365 days, Wye Oak Lucinda produced a total of 1,083 lbs. of milk and 676 lbs. of butterfat as a 5-year-old. Milked twice daily for 323 days, Vista Grande Lucifer C Dolly produced a total of 16,081 lbs. of milk and 605 lbs. of butterfat as a 4-year-old.

Henry M. Hess, Mt. Joy — Milked twice daily for 344 days, Clovena Rag Apple Papoose produced a total of 14,297 lbs. of milk and 554 lbs. of butterfat as a 3-year-old.

Henry E. Kettering, Manheim — Milked twice daily for 324 days, Ethel Man O War Sovereign produced a total of 17,490 lbs. of milk and 727 lbs. of butterfat as a 4-year-old.

J. Lester Stauffer, Manheim — Milked twice daily for 335 days, Lassie Designer produced a total of 17,190 lbs. of milk and 527 lbs. of butterfat as a 8-year-old.

Elmer B. Stoltzfus, Elverson — Milked twice daily for 365 days, Irvinbrae Commander Lark produced a total of 18,910 lbs. of milk and 608 lbs. of butterfat as a 8-year-old.

Job Stoltzfus, Elverson — Milked twice daily for 359 days, Prilly Golden Desire produced a total of 14,786 lbs. of milk and 557 lbs. of butterfat as a 5-year-old.

Mrs. May B. Stoltzfus, Morgantown — Milked twice daily for 352 days, Caernavon Bess Doris produced a total of 15,317 lbs. of milk and 602 lbs. of butterfat as a 10-year-old.

Steven K. Stoltzfus, Christiana — Milked twice daily for 318 days, Smyrna View Evelyn Homestead produced a total of 13,252 lbs. of milk and 496 lbs. of butterfat as a 10-year-old.

Pennsylvania State University working in close cooperation with the national Holstein organization supervised the weighing and testing of production as a part of the Improvement Registry program.

This official testing program, commonly referred to as HIR, provides continuing lactation and lifetime production records on every cow in participating registered Holstein herds.

Registered Holstein breeders in all 48 states are currently utilizing this basic information provided by their official records as a tool in the wise selection of individuals, families and bloodlines necessary to continued improvement of their herds.

## KILL BUGS...

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5 lbs. Duo-Copper Dust	90
5 lbs. Tomato Dust	1 10
5 lbs. Beon & Veg Dust	1 00
5 lbs. Potato Dust	1 10
5 lbs. 5% Chlordane Dust	1 10
5 lbs. 5% D D T Dust	75
5 lbs. Orthocide (50% Captan)	3 95
5 lbs. 25% Aldrin (Wettable)	2 75
4 lbs. Bore-tox (Bordeaux)	1 10
4 lbs. Rotenone V 75	.95
4 lbs. 50% Methoxy-chlor	3 75
4 lbs. 50% DDT	1 60
4 lbs. 40% Chlordane	2 60
3 lbs. Arsenate of Lead	1 20
3 lbs. Ferbam	2 10
3 lbs. 25% Malathion	2 10

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3 lbs.	80
30 lb case	7 50
Nutri Leaf 5 lbs	1 50
25 lb. bag	6 75
Ortho-gro 5 gal. can 14 75	
(Use 1 1/2 pts to 50 gals in transplanter)	
Isotox Transplanter	
Solution pt	1 85
(Add 1/4 pt to 50 gals. transplanterwater for insect control)	

## Rohrer's Fancy Lawn Grass

A permanent mixture containing 42% Ky. Blue Grass. No Rye grass.  
1 lb. covers 250 sq. ft.  
1 lb. 1.35  
5 lb. 6.25  
25 lb. 28.75

Sheep Manure 25 lbs	1 10
50 lbs	1 95
Cattle Manure	
50 lb bag	2 25
Bone Meal 25 lbs	1 85
Premier Peat Moss	
Large Bales	4 75
Bovong Cow Manure	
50 lbs	2 85
25 lb.	1 65
10 lb	1 10

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2.50 per cwt. Bulk  
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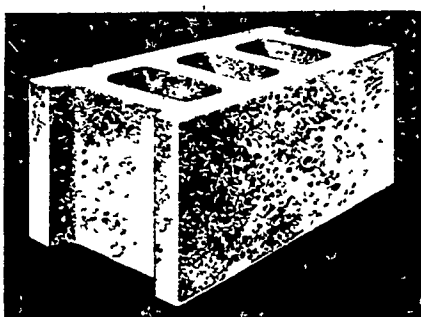
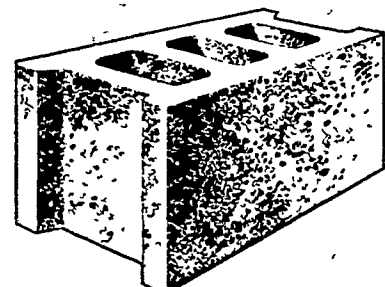
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