

With Training Plus Farm Background, Job Opportunities Are Plentiful

Boys who grow up on farms these days will not all have the opportunity to follow in their farmer father's foot-steps as our farms become fewer and bigger. But jobs in agriculture-related fields and agribusiness will be plentiful — for those with the training

Where are they likely to be? Here are a few fields that promise to be farm-linked in the future

Engineering: This field continues to hold the most opportunity. Specialists are constantly needed for jobs in agricultural chemical, civil, hydraulic, mechanical, sanitary, and general engineering.

Among factors upping demands for agricultural engineers are the growing mechanization of farm operations, increasing emphasis on conservation of resources, and the broad-

ening use of agricultural products and wastes as industrial raw materials.

The young man who would apply himself to this field is best advised to ground himself thoroughly in engineering fundamentals. Specializing too soon can make a man obsolete before his time in this fast changing field

Mechanics: Mechanization will increase demand for farm equipment mechanics. This jack-of-all-jobs fixes everything from tractors to grain elevators.

In 1967, half of the farm equipment mechanics were employed in the Corn Belt and surrounding States. New mechanics work as helpers for 6 months, and it usually takes 3 or more years of on-the-job training to become an experienced mechanic

Home economics: Improving products and services that affect family comfort is the home economist's job. Some specialize in one area, such as food, clothing and textiles or housing

The greatest demand will be for home economics teachers, but demand in social science fields may increase

Industry: Three out of every 10 jobs in private industry are related to agriculture in some way. For example, the meat and poultry dressing industry employs upwards of 300,000 people, milk processing creates jobs for over 250,000, baking fruit and vegetable canning and freezing, and the cotton and fabrics industry employ over 650,000

Food Marketing: Many jobs are created as foods are assembled, wholesaled, and retailed in stores, restaurants, and other outlets. In 1967, these activities provided the equivalent of 3.6 million full-time jobs, including many part-time positions

The largest number of jobs, 1.7 million, is in away-from-home eating places. Employment in these outlets has grown almost one-fifth since 1960.

Food inspection: As the meat and poultry industries grow, jobs will open in this field. The veterinary and biological sciences will be the chief stamping grounds for recruiters, although people well grounded in statistical analysis will be in demand also

Food quality is an important selling point these days, and the quality of our meats, poultry, and dairy products rises each year to meet the housewife's demands. Technical requirements for food graders vary among industries

Forestry: Triggering job growth here are increased use of forests for recreation, increased demand for wood products, the trend toward scientific management of forests, and expanding research, waste-land management, wildlife protection, and range management.

The pulp and paper industry employs over 600,000 workers, whose talents range from unskilled to technical and professional. This industry is expected to have around 14,000 jobs opening each year

Veterinary medicine: Prospects are good for those entering this field, because the demand for veterinarians has always exceeded the supply. The popularity of riding horses in rural and suburban areas has helped keep up the demand

Biology: People working in the biological sciences will work at maintaining our abundant agricultural production and enhancing it. One biological science closely related to agriculture these days is entomology. We've got to limit insect pests without destroying nature's balance

In biology as well as in almost all the physical sciences, the man with the Ph.D. is the one who will be in demand for important research and for

teaching. Prospects are more limited for people with less education.

Physical sciences: Assuring clean and adequate water, using our land resources effectively, and maintaining nature's balance will be the jobs that require chemists, geologists, metallurgists and geophysicists. Oceanography, a field that has a mystique second only to space for the young these days, will require growing numbers of specialists

Behavioral sciences: What people like to eat affects what farmers grow. How they like it influences the food processing industry. How much they like it regulates what they will pay for it

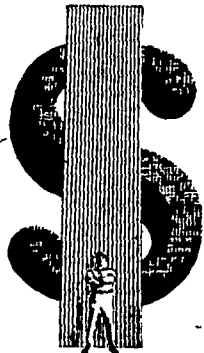
Psychologists, economists, marketing specialists, and other people who investigate the attitudes of buyers are increasingly in demand. Behavioral scientists are also necessary to project export trends by studying the buying habits of other nations

Computers: This hungry new industry that affects almost everything these days recruits workers from all educational levels. Aptitude in math or a background in statistics are the keys to advancement

CORN CROP

Pennsylvania's 1968 corn crop — estimated at 64,470,000 bushels — lags one-fifth behind last year's record high production. Yields are expected to average 70 bushels an acre, not reaching the 88 bushel high in 1967, but safely above the drought reduced 1962-66 average of 60 bushels

The State Crop Reporting Service said heavy rains the second week in September revived the crop, much of which was beginning to suffer from dry conditions. Fumes also were fortunate that frosts held off until October when practically all corn had reached full maturity.



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COMPENSATOR-50 LIQUID FEED SUPPLEMENT FOR RUMINANT LIVESTOCK



DR. G. H. PORTER

by Dr. G. H. Porter

Director, Animal Nutrition & Health
Agricultural Division
Allied Chemical Corporation
New York, New York

BACKGROUND:

B.S., University of Massachusetts, 1949
M.S., University of Connecticut, 1951
Ph.D., Pennsylvania State University, 1956

University of Massachusetts, Assistant Professor

Beacon Feeds Corporation,
Director, Dairy & Livestock Research
Albers Milling Company,
Director, Nutrition & Technical Sales
Allied Chemical Corporation,
Director, Animal Nutrition & Health

RUMINANT LIQUID SUPPLEMENTS: "Now, for the first time, Northeastern dairymen have the opportunity to take full advantage of the feed cost reduction system provided by the unique combination of non-calcium-bearing ammonium polyphosphate and feed urea in an ideal nutritional environment that assures the ultimate in feed palatability and nutrient digestibility.

The use of supplemental nonprotein nitrogen in dairy feeds for high producing dairy cows has posed some discouraging problems such as ingredient segregation, pelleting differences and feed palatability. Because of these concerns it is not unusual today to note circumstances where Northeastern feed manufacturers have decided to withdraw feed urea from their formulations.

For information contact Agricultural Division, Allied Chemical Corporation, 20 Community Place, Morristown, New Jersey 07960. Phone 201-538-8000, Ext. 6851 — Mr. Boyce

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COMPENSATOR-50 (LIQUID)

LIQUID FEED SUPPLEMENT FOR RUMINANT LIVESTOCK. GUARANTEED ANALYSIS

CRUDE PROTEIN (minimum)	50.0%
(This includes not more than 4% equivalent crude protein from non-protein nitrogen)	
CRUDE FAT (minimum)	8.1%
CRUDE FIBER (maximum)	1.0%
CALCIUM (Ca) (minimum)	0.1%
CALCIUM (Ca) (maximum)	1.0%
PHOSPHORUS (P) (minimum)	2.0%
IODINE (I) (minimum)	0.0014%
SALT (NaCl) (minimum)	9.3%
VITAMIN A, U.S.P. Units/lb.	30,000
VITAMIN D ₃ , U.S.P. Units/lb.	40,000

CAUTION: USE ONLY IN ACCORDANCE WITH DIRECTIONS FURNISHED

INGREDIENTS

Cane Molasses, Beet Molasses, Hemicellulose Extract, Sodium Sulfate, Ammonium Polyphosphate, Urea, Water, Vitamin A, Palmitate, Vitamin D₃ Supplement, Salt, Zinc Sulfate, Cobalt Sulfate, Manganese Sulfate, Ethylene Diamine Dihydrochloride, and Copper Sulfate.

DIRECTIONS: Feed to ruminants at the rate of 1 to 2.5 pounds per animal per day. Compensator 50 may be blended with available ground grains or mixtures of grains and other feed ingredients such as corn, oat, grain sorghum, oats, wheat, mill feeds, beet pulp, etc. Mix Compensator 50 at the rate of 5 to 15 percent of the grain mixture. Compensator 50 may be top dressed on silage or other roughages in proportion so that the animals total daily intake of Compensator 50 will be between 1 to 2.5 pounds.

(PATENT PENDING)

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GENERAL OFFICE

NEW YORK, NEW YORK

This is indeed unfortunate!

This denies dairymen the means of reducing feed cost through the use of proper amounts of nonprotein nitrogen in the feeds made available to them.

ARCADIAN COMPENSATOR LIQUID SUPPLEMENTS overcome all of these problems encountered with dry feeds and, at the same time, help lower out of pocket cash costs for purchased compensatory nutrients.

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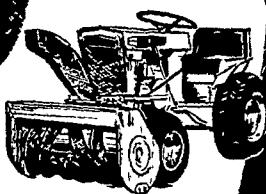
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