Importance of Balanced Ration Is Stressed at Dairy Day

Farm and Home Center Tues- Adams explained. day.

Extension dairy specialist, spoke should be the "balancer" Cattle Feeding for He recommended that the

trients needed for optimum per- the ration formance and health.

rations can be achieved using necessary additions many different kinds of combinations of hay, corn, grain, and supplements. thing, he explained, is to make cludes 12 to 14 per cent of crude proper balance of such basics crude fiber, 65 per cent or more

herds eften have problems using cent of non-protein nitiogen and rations built around a high level smaller amounts of calcium, the new environmental protec-

Such rations often have very vitamins A, B and E low levels of protein and notdoes not allow the cow's rumen but he emphasized that efficient he said. to work properly.

He also pointed out that some dairymen have serious problems using a ration built almost exclusively around corn silage One herd of Holsteins, given all the corn silage the animals could eat, was producing less than 10,000 pounds of milk. The cows were "hog-fat" because the .. ration had high energy but low protein levels.

He cited another example of a dairyman who ran into serious trouble with a lot of "downer" cows with a ration which included no vitamin or mineral supplements during a two year period.

Adams stated that many dairymen with good quality forage get better results than some dairymen who use a combination of forage and grain. The secret is in the quality and content of the feeds and in providing the proper combinations to get a balanced diet, Adams emphasiz-

He also noted that sometimes a farmer can get by for anywhere from two months to two years without serious consequences when he feeds an inferior ration to his animals How long he can get by depends on the condition of the animal, and the extent to which the ration is deficient.

later the deficiency will show

Ed the annual Dairy Day at the production and health problems, possible ration.

Talks ranged from projections ration, Adams suggested that the er's feed can be a valuable tool on the future of the dairy in forage should provide 40 to 50 in setting him on the right path underway to find the answers change unless there is a good dustry to discussions of dairying, per cent or more of the dry mat- toward a quality feeding proprofilens and how to solve them, ter and .75 per cent of the gram Richard S. Adams, Penn State energy Grain feeding, he said,

farmer use forage at whatever Adams stressed the impor-level his farm operation allows requirements A small amount tance of balanced rations which and to add whatever amount of in the feed is also necessary, he contain all the elements and nu- grain is hecessary to balance said.

He emphasized that grain in He emphasized that good itself is insufficient without give the various feed firms a neighbors"

The farmer should think in

.In arriving at a balanced mineral analysis of the farm- solving pollution problems.

a free choice supply is not always adequate because some animals do not eat their minimum

The Pollution Issue

chance to assist by recommending a complete feeding system

trol

In particular, he pointed out phosphorus, magnesium, and tion agency in Washington and the renaming of the ACP pro-Adams noted that it's difficult gram to REAP, a change not that takes the profit out of the enough digestible fiber This to achieve the proper balance only in name but in emphasis, milk sale

tection has exceeded new example. He said forage analysis and knowledge on the means of

Penn State has been working reason. with equipment which puts In feeding minerals, he said, manure in liquid form directly such as records of feed costs, into the soil and covers it in one milk production, cow selection, operation

recycling manure through the operations. soil for many years," he predict-

Good Management Factors

A Roger Grout, Penn State 70s" was the topic of Donald modern an operation, if the The important terms of a total ration which in- Extension agricultural engineer, L. Ace Extension daily specialsure that the feed contains the protein, 16 to 20 per cent of Pollution" Grout noted the "man's ability to manage" was it national frend toward a greater the single most important facas energy, protein, and vitamins of digestibility, about 35 per cent emphasis on environmental contor in successful dairy operating various operations tions

Dairymen, he said, should be ciency concerned with

-Too much overhead, a factor

-Too many purchases for the herd management requires con- Grout also said that the new herd size and production level.

More than 300 persons attend- up in the form of decreased stant effort to achieve the best trend toward environmental pro- Too much hired help, for

-Reasons for change Make a change if it will improve op-But he noted that research 15 elations, he said, but don't

-Using management tools sire analysis These tools, he Noting that farmers have been said, can make the difference in

-Direction of the dairy operaed that "a lot more research tion Is a farmer concerned only will be done on how to get rid with marketing milk, or does he He suggested that farmers of wastes without disturbing the Want to sell both milk and an-1mals?

> -Liking his dairy operation. "Herd Management in the He said that no matter how farmer doesn't like it, he won't

> > so that they work at peak effi-

Cost Squeeze Projected

William F Johnstone, Penn State agricultural economist. predicted dairy costs will rise faster in the 1970's than will prices received for milk, leading to a lower net income for daily-

He also predicted increased production through 1972 based on factors such as increased availability of labor, a slowdown in the culling rate and increased production per cow

He did foresee a possible increase in 1971 in the federal price support level for Class I milk Under federal law, milk parity is set between 75 and 90 per cent, the present price of \$4 66 per hundredweight is about 77 per cent of parity But he projected a slowing of

the rate of price increases, indicating an increase in 1971 of less than the 15 to 20 cents in

Danymen also can expect the 1970's to bring greater involvement in public issues, such as milk promotion, Class I base price and state milk control, accolding to Johnstone

Master of ceremonies of Dairy Day was Donald S Eby, president of the Red Rose Dairy Herd Improvement Association (DHIA).

Many local dany equipment dealers and suppliers had exhibits and displays for inspection by farmers

Dany Day was conducted by operation with the Mılk Dıstributors, Milk Marketing Cooperatives and Dairy Breed Associa-



The flag swings free and members of the family of the late Victor Plastow hoist But when the ration is defi- it to the top of the flagpole. The flagpole cient, "the cow is robbing from was dedicated to the memory of Plastow her own system" to make up for during ceremonies at the Farm and Home the deficiency and sooner or Center Tuesday afternoon in conjunction

with Dairy Day. Placing the flag is Mrs. Victor Plastow, left, and daughter, Mrs. the Lancaster County Agricul-Thomas Warner of Centre County. Max tural Extension Service in co-Smith, Lancaster County agricultural agent, assists.

Milk Leukocyte Count Cited As a Herd Management Issue

spoke at Dairy Day Tuesday on 1sts, he emphasized. the importance of good herd The goal of every herd owner mining leukocyte counts Ab- milk program is basically a six months all over. management practices to main- should be negative milk or milk normal milk herds "without ex- penalty system because protain a low leukocyte count in which has a leukocyte count ception take over eight minutes ducers with more than a 1,500,-

serve as the udder's first line of able financial loss to the dairy to Dr. Guss defense against injury. When man, the problem has already the leukocyte count rises, the gotten out of control, Dr. Guss normal good taste of milk suffers, it was explained.

responsibility for a high leuko- ered, is extremely costly to herd owner and it is up to him leading to the high count result point of a 1,500,000 leukocyte being treated with a dip, it had problems, he noted. to correct the situation. He in a loss of milk production of count, at least 60 per cent of the means teat ends are sore and checks of their milk to make cent or more depending on the are giving unsatisfactory milk sure that the count remains seriousness of the situation as the count begins to rise; herd are involved.

Dr. Samuel B. Guss, Penn farmers should not wait until

Leukocytes are white blood leaches 1,500,000, the point at five minutes or less, even with he thinks a positive program of cells which resist infection and which it is rejected at consider. 16,000 pound heads, according rewarding "the good produc-

He explained that a high leukocyte count, even when Dr. Guss emphasized that the the rejected milk is not considcyte count always rests with the dairymen, because the factors the time a herd leaches the

He noted that procedures reason why," Dr. Guss said. under 500,000. When the count to milk" Milking should take 000 count are penalized He said

> He emphasized that the level of vacuum in milking is extremely important Cows can be ruined with "either too much or too little," he said.

He also emphasized that by

ers" would be more successful

treatment used to maintain a found to contain yeasts that low count, Dr Guss emphasized cause mastitis that the wrong type of treattreatment at all

the California test or know the He also noted that the dip- Dr. Guss.

ping does "no good in less than State Extension veterinarian, after the problem already ex- used in milking the heid are Dr Guss also noted that the six months and if you miss one extremely important in deter- present so-called abnormal milking, you have to start the

> He emphasized the importance of working with and getting materials through reputable dealers

He noted that some kinds of In discussing the types of udder injections have been

Also, the leukocyte count ment can be worse than no normally uses near the end of the lactation This helps explain why one herd that had several If the cow kicks at you while cows with a 450 day lactation

Normal good herd manageurged owners to make continual anywhere from five to 25 per quarters of the cows in the herd probably the wrong material or ment practices and prompt corwrong method is being used for lective action as soon as the "It ought to be every dany- treatment Improper treatment count moves above the 500,000 low. Corrective actions should with each animal and the extent man's goal to have negative milk can "ruin the herd in five level will eliminate this manbe taken immediately as soon to which all the animals in the (less than a 500,000 count) on days," according to Dr Guss agement problem, according to