Protein Needs

(Continued from Page 1)

a group of cows an artificial and a little corn oil.

reaches nearly the average cow — in the rumen and in Scandinavian countries. Their from carbohydrates, amino or ing dry. calves are normal, and meat fatty acids, and other chemiequal to that of cows on nor- the scientist says. mal feeding. The calves them- Previous experiments in the selves have been fed the ar- United States and other coun- milk production has increased cretion of saliva.

tificial diet, and have shown tries and in his own labora-

Virtanen says, "Our studies diet of purified carbohydrates; have shown that the most imsources of nitrogen; a mineral milk are formed in the cow." A and D, and later also E; tent milk flavors come from synthesis within the cow and Milk from the cows on this to what extent they come from diet contains the same nutri- feed. "Milk flavors can be ents — fat, nonfat solids, sug- classified into two groups: ar, and proteins — as milk those transferred from feed to milk by way of the digeslevel of Ayrshire cows in the liver or mammary glandfrom the calves is of quality cal compounds in the feed,"

tory had convinced Virtanen that it would be possible to to a peak so far of 9,460 • Fed. Land Bank develop in cows, by gradually pounds from a single cow in urea and ammonium salts as portant flavor compounds of changing their feed, a rumen a year. microbial population capable, mal, of using nitrogen from containing purified starch, cel-doubled in volume urea and ammonium to syn-lulose, sucrose, and urea and Altogether, six cows were on the test. Their milk yield those which are formed in the while they were dry or becom-

As the experiment has gone nated with silicic acid have from the office on, Virtanen has increased the been substituted But the cows daily portion of nitrogen in are still allowed to chew hard Lancaster office as assistant the feed. As he has done so, rubber tubing to help the se-

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palatable, can be fed at all seasons,

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you need

good profit.

(Continued from Page 1) ally, Brown reported, adding Every day each cow gets 20 that in the past five years the mixture containing vitamins He is determining to what ex-

The local office was moved thesize the essential amino ammonium salts, 8 pounds of from the Post Office building acids which are the chief com- a wet paste rich in cellulose, to its present location on W. ponents of protein. He has and small amounts of coin Roseville Rd in 1957, Brown now proved this to be true. oil and commercial prepara- said The building, which is Cows in his trials had their tions of vitamins A, D, and E owned jointly by the Federal At the beginning of the ex- Land Bank and Production periment, the cows were al- Credit Associations, houses 12 lowed to chew rye or wheat full-time employees; five of straw to improve iumination, these spend most of their time Now cellulose strips impreg-working with customers away

> Brown, who came to the manager in 1962 and has held his present post for the past two and one-half years, described the sole purpose of the Federal Land Bank System as "putting faim loans on a business basis at a reasonable, stabilized rate of inter-

> Lenders traditionally regarded farmers as extremely poor business risks, Brown said, explaining that interest rates were set high to compensate for that risk with lenders' rates ranging from 10 percent annually to 10 percent per month And terms of the loans were usually less than five years, he added.

energy feed — vitamin-fortified and palatable — to maintain the herd, With the help of the Land Banks, credit for the farmer encourage maximum milk product has moved from being an option, help produce calves, and be pressive liability to an imadaptable to milk parlor feeding. portant tool of production, Brown concluded Yet, this feed must be free-flowing

HAZARD OF OVERWEIGHT

Our society, with an economy of plenty but a lack of physical activity, sets the stage in many cases of overweight, Mis Ruth J. Buck, Penn State extension foods and nutrition specialist, points out. Generally at middle age, persons experience the greatest difficulty in maintaining ideal weight although no age is spaied the problem of unwanted pounds





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