Net Energy

(Continued from Page 13) and fat; and how much is fi- ponents such as lignin which nally available for milk pro- cattle cannot digest; and CF duction.

equal in TDN might differ in easily. the proportion of nutritive value going to productive use. natural digestion, Van Soest tem would show that even in the structure with the proportion of nutritive value going to productive use. natural digestion, Van Soest tem would show that even in the structure would show the structure would making power to one resulting He found that the cell conin more urine or gases.

Flatt calls this milk-making power the net energy (NE) of a feed. For beef cathle, NE digest cell walls to some excan also express a feed's potential for meat production.

A dairy farmer, for example, might want to calculate the energy produced by a feed

Since NE is more accurate than TDN the farmer, by using NE for his energy calculating, would be more sure of fiber" (ADF). maintaining high milk produc-

Determining the NE of a feed under Flatt's system of sealing a cow inside a chamber requires much time and labor even with computerized equipment. Van Soest develsped his new method to simplify this process.

One of the traditional systems which Van Soest's method may replace, the 100-yearold Weende system, attempts to imitate an animal's diges tive processes by chemistry. It yields two fractions called "natrogen-free extract" (NFE)

and CF is relatively indigestibie. The Weende system is inaccurate, however, because ally available for milk procentle cannot digest; and CF includes some fibers such as lignin which the found that two feeds cellulose which cattle digest qual in TDN might differ in easily.

Value of van Suests system, such as such as lignin which Samples of grass and legume rapid testing of samples sub-from a Weende analysis is includes some fibers such as includes some fibers such as digestibility by the Weende analysis is with much more difficult to oxian, digestibility by the Weende analysis is system, because their crude of samples sub-from a Weende analysis is the might be found that two feeds cellulose which cattle digest system, because their crude of samples sub-from a Weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest being crude of the weende analysis is the might be found that two feeds cellulose which cattle digest which cattle digest which cattle digest with the might be found that two feeds cellulose which cattle digest with the might be found that two feeds cellulose which cattle digest with the might be found that two feeds cellulose which cattle digest with the might be found that two feeds cellulose which cattle digest with the might be found that the might be found t

tents of a plant are almost ruminant because the prope stock, and that rummants also ratio of lignin to ADF

Van Soest determines, separately, the feed value of cell contents and of cell walls, it wourself, projects it was not energy produced by a feed when replacing part of the concentrates in a ration with which he calls "neutral determines the gent fiber" (NDF). To find the nesses are slightly less than the calls "neutral determines to the gent fiber" (NDF). To find the nesses are slightly less than the calls "neutral determines to the calls "neutral determines" and slightly less than the calls "neutral determines" that the calls "neutral determines to the calls "neutral determines" that the calls "neutral determines to the calls "neutral determines" that the calls "neutral determines to the gent fiber" (NDF). To find the new calls "neutral determines to the gent fiber" (NDF), he determines to the calls "neutral determines to the gent fiber" (NDF), he determines to the calls "neutral determines to the gent fiber" (NDF), he determines to the calls "neutral determines to the gent fiber" (NDF), he determines to the calls "neutral determines to the gent fiber" (NDF), he determines to the calls "neutral determines to the gent fiber" (NDF), he determines to the calls "neutral determines to the calls "neutral determines" to the calls "neutral determines to the calls "neutral determines to the calls "neutral determines" to the calls "neutral determines to the calls "neutral determines" to the calls "neutral determines to the calls "neutral determines" to the calls "neutra the total value of the cell wall fibers cellulose and lignin, which he calls "acid detergent

Then, he determines the pro-

portion of lignin in ADF. This, greater in the grais. hé finds provides a close esti-

posited in the body as meat NFE contains some feed comvalue of Van Soest's system, feed quality control work and gestibility estimate on mine

A farmer would obviously pre-based his system on the structure of the grass sample had more fer a feed with more milk-tures of the plants he analyzes, ber than the alfalfa, it might still be more digestible to completely digested by all live- tion of digestible. fiber (the

> SIZES DIEFER When buying lumber for the

Van Soest's system requires of their forages. mate of the digestibility of cell no more laboratory work than And the detergent with the Weende system. Thus, the works easily on mixtures of A comparison of bromegrass new method is practical, not different feeds such as thou

to pinpoint the feeding value

. More farmers each month prefer to buy their

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FOR SUPERIOR COURT

Judge G. Harold

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VOTE Rept can Nov. 8

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