

Veal Producers Attend Seminar

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able in calves to fight infection in the mucus layer and the alveoli.

Lore pointed out the events which often lead to pneumonia in calves. They are dust inhalation; dehydration; starvation resulting in hypoglycemia, which in turn reduces white blood cells' normal phagocytic action and defeats effectiveness of antibiotics, stress, chilling in transport; micronutrient deficiencies which impair immune function, and virus conditions which depress white blood cells and damage the surface of the respiratory tract.

As pneumonia develops, bacterial toxins depress the appetite and cause congestion of the lungs. Body temperature increases, and with this basal metabolism increases at the rate of 20 percent for every degree of elevation. Diarrhea often accompanies high temperature, causing dehydration and loss of potassium. The excessive energy requirement causes ketosis, while hypoglycemia sets in, preventing effectiveness of antibiotics. Damage is caused to body tissue cells, preventing cellular function.

Diarrhea or scours can be lessened by making sure that the newborn calf gets colostrum, which contains gram positive bacteria. This is a healthy situation. Gram negative pathogens normally are found in the large intestine. But some factors which encourage onset of diarrhea are irregular feeding, chilling, and over feeding, since these factors interfere with normal peristalsis. When this occurs, gram negative bacteria will back up into the digestive system and result in diarrhea. Virus can also cause similar action. Conditions similar to those caused by pneumonia follow.

Lore then introduced Veal Nutri-Drench, a product manufactured for Bovidr Laboratories. This new product has the ability to correct metabolic problems, immune failure, and nutrient deficiencies which occur in calves as a result of pneumonia and diarrhea. In this product is rapidly available energy sources, improving digestion, use and speed of nutrient bioavailability of vitamins, trace minerals and amino acids. Use of this material for calves should be immediately upon arrival at the

grower's as a preventive measure.

Lore showed the functions of various micronutrients. These include glucose, Vitamins A, D and E, and selenium, choline, thiamine, (B vitamin), amino acids, copper, potassium, magnesium, cobalt, zinc, and iron. He described what each of these elements does in the digestive process and the body in general.

In his presentation, Scott Remington president of Agri Labs, Ltd., showed how the new calf is a most highly stressed animal, often mishandled. He emphasized the need for proper nutrition, sanitation, and preventive medicine — vaccines and proper administration of feed materials which tend to strengthen the immune system. He did state that in spite of adhering to good practices, sometimes sickness will occur, and proper treatment, including antibiotics if necessary, must be speedily done. He described products recommended for use in sanitation, and went on to cattle diseases and their symptoms and methods of transmission, as well as preventive measures which should be taken.

Remington presented a vaccination schedule for the 11 most common diseases affecting calves. After describing pharmaceuticals distributed by Animal Medic, he distributed a "Veal Producers Handbook," which includes complete information on all of the above subjects. Veal producers can obtain a copy of this booklet from their Animal Medic/Agri Laboratories dealer.

Responding to a question about the comparative costs and effectiveness of modified live virus vaccine versus killed virus vaccine, Remington emphasized that killed virus cannot enhance the growth of any disease organisms already in the animal's body, while in some cases modified virus can. Therefore he recommends against the use of modified virus vaccines.

Because of legal requirements off-label use of any substance must be avoided. This includes departing from recommended dosage. Proper dosage is the result of testing and proved effectiveness.

LeVere Hook went on to describe several products avail-

able from Animal Medic, and gave convincing data on benefits which result from their proper use. He cited different methods of administration of some of the products. Pointing out the value of probiotics, he showed that studies have demonstrated up to 26 additional pounds of market weight, with all other factors are kept equal. Other products including antibiotics available were mentioned by Remington. He emphasized reading labels, following directions in both use and limitations, and withdrawal times for all products.

Finally, Galen Martin demonstrated a new product for lice control. It is a collar impregnated with amitraz, a systemic product, which has a long life and can be used on calves, dairy beef, and beef stock.

Wilkinson Becomes Distinguished Professor

UNIVERSITY PARK (Centre Co.) — Penn State's Board of Trustees recently named Dr. Kenneth P. Wilkinson, professor of rural sociology, a distinguished professor.

"Dr. Wilkinson has compiled a truly remarkable record as a scholar and is generally recognized as the leading community theorist in the United States and one of the most influential community theorists in the world," said Dr. Shannon Stokes, head of agricultural economics and rural sociology.

Wilkinson received strong recommendations from his peers at other universities. His major scholarly contribution has been the

development of a distinctive analytical framework, known as the field theory of community, for research on community action and social well-being in distressed areas.

Wilkinson and other researchers have used this framework to examine changes in rural communities across the United States and in other countries, including Ireland, Italy, Morocco, Sri Lanka, and India.

Wilkinson's scholarly work includes more than 60 articles, books and reports. His most recent book, "The Community In Rural America," was published last year by the Greenwood Press, Westport, Conn.

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