



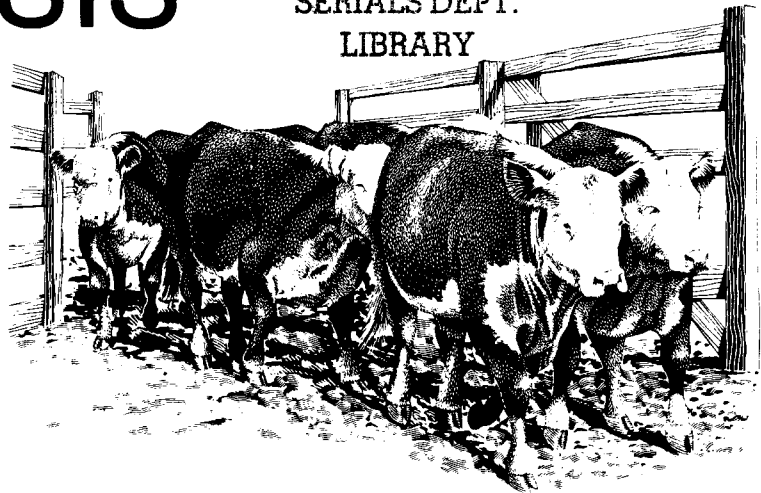
NORTH DAKOTA  
STATE UNIVERSITY

DEC 14 1987

SERIALS DEPT.  
LIBRARY

# COCCIDIOSIS IN CATTLE

Kurt Wohlgemuth, DVM  
Extension Veterinarian



## What is Cattle Coccidiosis?

Coccidiosis is an intestinal disease of cattle. It affects mainly young or growing animals, particularly those raised in confinement. Coccidiosis is caused by very small protozoan parasites which have the ability to multiply themselves profusely inside the animal. They damage the intestinal walls during the first two to three weeks of their life cycle, and in the next week they turn into free-living organisms known as **oocysts**. Once excreted in the feces, coccidial **oocysts** are hardy and resistant to a wide range of environmental conditions. Excreted **oocysts** often contaminate water or feed and, if ingested by other animals, start the cycle of infection all over again. Several species of coccidia may affect cattle.

## What are the Symptoms of Coccidiosis?

44.3  
'9  
8  
.639  
'87  
Diarrhea which contains variable amounts of blood (either bright red or at times brown-tarry in color) is a common sign of coccidiosis. Many animals exhibit repeated straining and their rectum may prolapse. Weakness, dehydration and anemia are typical results of the infection. Weight loss or poor gains are noticed consistently. Secondary pneumonia is often a complicating factor. Some animals have signs of encephalitis, usually during the beginning of an outbreak of coccidiosis.

## Which Factors Influence Outbreaks of Coccidiosis?

Outbreaks of coccidiosis depend on various factors:

**The number of infective oocysts ingested.**  
Coccidiosis differs from most other infectious diseases in that the severity of the infection is dependent upon the number of organisms which initiate the infection. The larger the number of oocysts ingested, the greater the likelihood that a susceptible animal will come down with coccidiosis.

**The susceptibility of an animal to coccidiosis.**  
The mere fact that oocysts are ingested does not necessarily mean that an outbreak will occur; the animals must be susceptible to the disease. Stress, in the form of fatigue from shipping, weather changes, sudden feed changes, and other factors, predisposes animals to coccidiosis. The first few weeks of confined feeding usually constitute the period of higher susceptibility. Coccidial infections are usually self limiting and subside to a low grade infection in 10 to 14 days. Recovered animals usually have lasting immunity, but they often remain potential "carriers" of the disease. "Carriers" may act as source of infection for other animals.



**NDSU EXTENSION SERVICE**

North Dakota State University, Fargo, ND 58105

