

## Ask the **VMD**





**Donald Yorlets** 

A reader asks:

**Leon Riegel** 

What are the signs of nitrate poisoning in cattle? Is it a seasonal problem? Is there any prevention or treament?

Dr. Yorlets replies:

Nitrate poisoning in cattle is usually caused by the ingestion of forages, weeds, fertilizer or water which contain a high nitrate content. The signs of acute nitrate poisoning are usually evident within 4 hours after ingestion.

These signs classically are characterized by difficulty breathing cusually open-mouth breathing), cyanotic (purple) rate, weak pulse, generalized coordinated gait. Pregnant unrelated to urea poisoning. animals frequently abort. There is discoloration of the blood. In severe cases death usually occurs within 12-24 hours. The animal ting season, Ammonium Nitrate frequently dies in convulsions.

compound interfering with the poisoning if ingested. blood's oxygen carrying capacity,

mucous membranes, rapid heart blood urine, forages, or water for nitrate compounds. It should be weakness, along with an un noted that nitrate poisoning is

Nitrate poisoning can occur at characteristic chocolate any time of the year; however, it is more likely to occur at certain seasons. During the spring planand Potassium Nitrate fertilizers Death is due to the nitrate are available and can cause nitrate

Also runoff from fertilized fields causing death by suffocation, can contaminate drinking water Confirmation of the cause of death resulting in nitrate poisoning. In can be made by laboratory the spring, immature green oats, analysis of stomach contents, barley, wheat, and rye hay, and

sudan grass, corn or sorghum todder may contain high nitrate levels. The plant nitrate content is largely influenced by soil conditions: high soil nitrate content, acid soil, drought followed by moist soil conditions, and deceased light all favor accumulation of nitrates in forages.

In the fall of the year, runoff from silos is very high in nitrate compounds. Harvesting of Sudan grasses after frosting can result in Cyanide poisoning which, although completely unrelated can be confused with nitrate poisoning.

The risk of nitrata

be reduced by feeding high energy feeds along with nitrate containing forages. Ensiling nitrate forages is beneficial in reducing their nitrate content. the addition of Chlortetracycline at the rate of 15 mg/pound of feed is helpful for approximately two weeks.

Nitrate poisoning is treated by the intravenous injection of methylene blue at the rate of 10 mg/pound body weight for cattle. Mineral oil drenches are helpful in counteracting local irritation of the stomach as a result of the ingestion of these caustic compounds.



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