





Some Common Symptoms Milk production drop Lethargic, dull rough appearance Increased incidence of mastitis and metritis. Variety of reproduction problems Stool variability, loose, diarrhea Lower than normal dry matter intakes • Immuno-suppression (disease incidence up) **litech**

Adverse Effects of Mycotoxins

- Immunosuppression
- Increased susceptibility to diseases
- Damage to organs
- Poor reproductive performance
- Decreased feed intake, production

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Second and Third Trimester Abortions Is there a disease challenge involved? Is it a mycotic abortion? (aspergillus, mucor) Are we dealing with a mycotoxin issue?



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- Over-conditioned cows
- Nutrient deficiencies and/or imbalances (protein & energy)
- Disease challenge
- Stray voltage
- Mycotoxins

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• Diet Stray Voltage











Treating the Mycotoxin Problem

- Utilize a mycotoxin adsorbent
- Address problems encountered such as immune system suppression
- Address problems such as poor reproductive performance
- Has digestive tract integrity been compromised?

Managing a Mycotoxin Menace Through Nutrition

- May need to utilize organic trace elements to improve the status of the immune system, reproductive performance, hair and hoof health (30-40% of tm's in organic form)
- Increased vitamin A levels
- Increased vitamin E levels
- May need additional protein and energy in the diet

Managing the Mycotoxin Menace With Feed Additives

- Buffers maintain protozoal numbers and rumen pH
- Mold Inhibitors in tmr to reduce possible further mold growth
- May use mold inhibitors on face and top of bunkers to prevent mold growth and subsequent mycotoxin formation
- Digestive enzyme additives aid in digestion (mycos may have altered beneficial microflora)
- Microbial feed additives to help aid in rumen and digestive tract function
- Utilize mycotoxin adsorbent

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Harvest Control Strategies

- Harvest timely delayed harvest may increase contamination
- Early harvest of AF contaminated grain may prevent further contamination
- Harvest at proper moisture levels when
 possible



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