



GUIDE FOR MYCOTOXINS IN SWINE

Approximate Range For Potential Reaction

<u>MYCOTOXIN</u>	<u>LOW</u>	<u>MEDIUM</u>	<u>HIGH</u>
DON (vomitoxin)	< 300 ppb	300 – 1,000 ppb	> 1,000 ppb
Zearalenone	< 100 ppb	100 – 300 ppb	> 300 ppb
Aflatoxin	< 10 ppb	10 – 30 ppb	> 30 ppb
T-2 toxin	< 100 ppb	100 – 250 ppb	> 250 ppb
Fumonisin	< 3 ppm	3 – 7 ppm	> 7 ppm

Qualifiers:

1. Multiple mycotoxins will compound potential effects.
2. Toxic effect may be increased by body condition, health challenge, or stress.
3. Mycotoxins are not uniformly distributed in feedstuffs
4. Small samples yield high test errors and underestimate mycotoxin contamination rate.
5. Low-level test results may still be cause for pro-active response.

Representative Symptoms:

<u>DON</u>	<u>Zearalenone</u>	<u>Aflatoxin</u>	<u>T-2 Toxin</u>	<u>Fumonisin</u>
Reduced Feed Intake – feed refusal	Hyper-estrogenism	Liver damage; altered protein synthesis	Reduced feed intake	GI tract torsion; ulceration
Reduced gain rate	Poor reproductive performance	Reduced gain; reduced muscle mass	Intestinal hemorrhages	Weight loss; poor feed conversion
Poor reproductive performance	Swollen vulva, vaginal prolapse	Impaired immune function	Frequent defecation	Pulmonary edema
Impaired immune function	Abortion	Increased disease rates	Impaired immune function	Impaired immune function
	High death loss	Highly interactive	Increased disease rates	

(Revised 4/2011)