

## Hazard Analysis Samples for Dairy Cattle Feed Mill

**Product:** Whole Corn

Ingredient/ Processing Step	Identify Hazards	Rank Severity Of Illness Or Injury To Animals	Rank Probability The Hazard Will Occur In Animals	Rank Severity Of Illness Or Injury To Humans	Rank Probability The Hazard Will Occur In Humans	Is A Preventive Control Needed?	Justification For Ranking	What Control Measures Are In Place To Address The Hazard?
Receiving, Bulk Ingredients.  Location:  1A (rail pit)  1B (truck pit)	<b>Biological</b> Bovine Spongiform Encephalitis (BSE)	High (1)	Very Low (D)	High (1)	Very Low (D)	1-D, 1-D: No	<p><b>Severity:</b> Fatal illness to cattle with possible zoonotic transmission from affected meat.</p> <p><b>Probability:</b> BSE is rare in cattle in the U.S. currently: <a href="https://www.cdc.gov/prions/bse/case-us.html">https://www.cdc.gov/prions/bse/case-us.html</a></p> <p>Procedures are in place to prevent possible exposure of incoming ingredients to prohibited mammalian products and are in accordance with FDA regulations CFR Part 589.2000 and 589.2001.</p>	Approved Supplier  Bulk Ingredient Receiving Form
	<b>Chemical</b> Pesticide residue	High (1)	Low (C)	High (1)	Very Low (D)	1-C, 1-D: No	<p><b>Severity:</b> Pesticide residues can be toxic to animals leading to illness. Pesticide residues can occur in meat and milk products and can lead to human illness upon consumption.</p> <p><b>Probability:</b> Approved supplier programs ensure that incoming products are not contaminated with pesticides. Routine quarterly testing performed on site confirms that incoming product is not contaminated with pesticides.</p>	Approved Supplier  Bulk Receiving  Quality Control Sampling Schedule & Calendar

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	<b>Chemical Mycotoxins:</b> Aflatoxin	Medium (2)	Low (C)	High (1)	Low (C)	2-C, 1-C: No	<p><b>Severity:</b> Corn is received by rail from States where climate can support the mold growth necessary for aflatoxins to develop. Aflatoxins are a naturally occurring carcinogen that can be transferred through milk. California regulations state any corn above 20 ppb aflatoxin is adulterated.</p> <p>Local corn is received by truck, and the local climate does typically support mold growth necessary for aflatoxins to develop.</p> <p><b>Probability:</b> Procedures are followed to prevent grains and other ingredients with more than 20 ppb aflatoxin into the facility.</p> <p>Test results of incoming corn by rail and truck has not shown presence of aflatoxin over 20 ppb.</p>	<p>Approved Supplier</p> <p>Incoming Certification of Analysis (including specification limits for aflatoxin levels).</p> <p>Quality Control Sampling Schedule &amp; Calendar</p> <p>Railroad Ingredient Certification (all corn received by rail is tested at origin).</p>
	<b>Chemical Mycotoxins:</b> Fumonisin, Vomitoxin, other Mycotoxins	Medium (2)	Low (C)	Medium (2)	Very Low (D)	2-C, 2-D: No	<p><b>Severity:</b> Fumonisin can be found in corn. FDA advisory levels for Fumonisin is 30 ppm in lactating dairy cattle. Corn may be affected, but vomitoxin is more common in wheat and barley. FDA advisory levels for vomitoxin in grains are 10 ppm.</p>	<p>Approved Supplier</p> <p>Bulk Receiving</p> <p>Quality Control Sampling</p>

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							<b>Probability:</b> Procedures are in place to test incoming grains for fumonisin and vomitoxin quarterly. Test results have never exceeded 5 ppm.	Schedule & Calendar
	<b>Physical</b> Metal, trash, glass, foreign materials in whole corn received in bulk.	Medium (2)	Low (C)	No significant risk	No significant risk	2-C: No	<p><b>Severity:</b> Physical non-food objects in feed could lead to animal injury, specifically metal can lead to hardware disease in cattle. Animal acts as a filter; no significant risk to humans.</p> <p><b>Probability:</b> Procedures are in place to reduce the risk of metal and foreign objects in incoming ingredients. Magnets used throughout the facility in receiving conveyance equipment- locations noted in flow diagram. Screens and grain cleaner located at turn-head prior to silo storage. Visual inspection of incoming grain while unloading.</p>	<p>Approved Supplier</p> <p>Bulk Receiving</p> <p>Bulk Ingredient Receiving Form</p> <p>Maintenance</p> <p>Daily Maintenance and Quality Control Checklist</p>

Related Resources:

[Hazard Analysis Rubric](#)

[Hazard Analysis Template](#)

[Hazard Analysis Template Explanation](#)

See [SAFE Prerequisite Programs Guidance](#) to view the sample prerequisite programs listed in this example under “What Control Measure Are in Place to Address the Hazard?”

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