Measurement of Quality-Based Risks In The Bulk Material Supply Chain

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Abstract
The audience will learn about the process used to identify, quantify, and evaluate quality risks in the bulk material supply chain. Use of the process map will be discussed from a quality management perspective. Implications for industrial practice will be shared.

Disciplines
Agriculture | Bioresource and Agricultural Engineering | Operational Research

Comments
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Management

Measurement of Quality-Based Risks In The Bulk Material Supply Chain

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Need: The bulk materials supply chain presents several challenges in terms of quality management. The identification, quantification, and evaluation of quality-based risks in bulk material supply chains have been shown to be especially problematic because of the high volume and large-scale aggregation of products from multiple sources. Limited research has examined the options for measuring quality-based risks in this context. Increasing legislative compliance requirements and a lower risk tolerance from stakeholders has highlighted the need for the development of a robust approach for measuring quality-based risk in the bulk material supply chain. Such a process would also have application for quality management systems in conventional supply chains.

Overview: This presentation will discuss the challenges of identifying, calculating, and assessing risks to quality goals within the bulk material supply chain. Factors considered in the development of a process map to graphically depict quality-based risks will be shared. Identification criteria, measurement metrics, and evaluation standards will be discussed from a quality perspective. Implications for the bulk material supply chain will also be shared.

Major Points:
- Quality management challenges unique to the bulk materials supply chain
- Factors considered in the development of identification criteria and measurement metrics to identify and quantify quality-based risk in the bulk materials supply chain
- Development of a process map to graphically depict risks and their impact on the supply chain
- Implications for quality managers and supply chain professionals

Summary: The audience will learn about the process used to identify, quantify, and evaluation quality risks in the bulk material supply chain. Use of the process map will be discussed from a quality management perspective. Implications for industrial practice will be shared.