



OnTrak with ReposiTrak

Thought Leadership Webinar Series

Quarterly Trends Update: 2020-Q2

**Stress Testing Your Food Fraud Prevention Strategy
Application to COVID-19**

REPOSITRAK.COM

World's Largest Network of Supply Chain Partners Sharing Documents and Data

Improve Product Safety, and Reduce Cost & Risk

More than **100,000 connections** in the
ReposiTrak network!

Get the most from the network!

- Many of you and your suppliers are likely already using ReposiTrak to share documents with customers
- You can use ReposiTrak to collect and manage your own supplier and quality/safety documents

ReposiTrak[®]
Compliance
Management



ReposiTrak



Exclusively Endorsed in the Industry



“ReposiTrak augments our food and drug safety efforts...with a **proven, comprehensive and easy-to-implement solution** that **doesn't require systems changes** and is extremely cost effective.”



“We see the ReposiTrak system becoming an **industry standard** for the retail supply chain, helping all trading partners **meet the new federal food safety requirements**, reducing unsalable products and keeping the end consumer healthy.”



“We were looking for a technology partner to help us **raise the bar** not only with our data management and reporting, but also with upgrades to all of our user interfaces. It made perfect sense to partner with ReposiTrak because of their **experience in the industry** and technical capabilities.”



“ReposiTrak is a **pioneering innovator** in delivering robust retail management software solutions for our rapidly changing industry. This technology will equip our members with a toolbox for success in a constantly evolving marketplace. We are thrilled to partner with ReposiTrak as we continue to advance and expand our ecosystem.”



Easily Identify Your Risk Areas And Process Failures

One-Minute Compliance Check for Easy Reporting & Performance Tracking



We Know You're Busy, So Our Team Does the Heavy Lifting for You

✓ Cloud-based system

- Nothing to install, you just need an internet browser

✓ Set-up is easy

- We just need your supplier list and document requirements to get started, and you can be live in 30 days

✓ We do all the supplier follow-up for you!

- It takes up to 20 “touches” by phone, e-mail and mail on average to get and keep a supplier compliant
- We have a full-time, U.S. based Customer Success Team who follow-up with your vendors to ensure adoption and compliance with your requirements



Search Criteria

Categories: Any All
Change Categories

Locations:

Compliance: Any All

Audit Types: Any All

Business Profile:

We've found over 50 suppliers.
As a helpful hint, you can allow...

1. Add additional search criteria above to filter the list.
2. Email us at CONCIERGE@REPOSITRAK.COM for help finding the right supplier for you.

Similar Suppliers

Showing 1-25 of 134

SUPPLIER	SUPPLYING	PROVIDING DOCUMENTS	COMPLIANCE
Acme Industries Massachusetts Hyde Park	Bagels Bakery Assortments Baking Chocolate Baking Flavors & Extracts Baking Mixes Baking Soda Batter & Coating Mixes	Letter of Continuing Guarantee Supplier Self-Assessment Questionnaire (SAQ)	 11 Customers <input type="button" value="Action"/>
Beta Candies & More Maryland Baltimore Frederick Virginia Roanoke West Virginia Martinsburg	Candy & Chocolate Cereal & Granola Bars Cheese Cheese Puffs Chips Coffee Crackers Dried Vegetables Dry Beans Eggs View 8 more	Carrier Compliance Policy Certificate of Liability Insurance Certificate of Organic Operation-by Facility Emergency 24-hour Contact Number (Esign) FDA Registration - By Facility Genetically Modified Organism (GMO) Statement Hold Harmless Letter of Continuing Guarantee Organic Certification - By Facility Product Recall Program Documentation View 10 more	 5 Customers <input type="button" value="Action"/>
Charlie Coffee Colorado Denver Sparta California Los Angeles Oakland San Francisco	Candy & Chocolate Cereal & Granola Bars Cheese Cheese Puffs Chips Coffee Crackers Dried Vegetables Dry Beans Eggs View 8 more	Carrier Compliance Policy Certificate of Liability Insurance Certificate of Organic Operation-by Facility Emergency 24-hour Contact Number (Esign) FDA Registration - By Facility Genetically Modified Organism (GMO) Statement Hold Harmless Letter of Continuing Guarantee Organic Certification - By Facility Product Recall Program Documentation View 2 more	 2 Customers <input type="button" value="Action"/>

Want to Make Your Sales Team Happy?

ReposiTrak helps you connect with new customers in the Marketplace so you can sell more!





OnTrak with ReposiTrak

Quarterly Trends Update: 2020-Q2

Stress Testing Your Food Fraud Prevention Strategy

Application to COVID-19

John Spink, PhD

- **Director & Assistant Professor, Food Fraud Initiative**
- **Eli Broad Business College, Michigan State University**
- **Department of Supply Chain Management**

REPOSITRAK.COM

Quarterly Trends Update: Stress Testing Your Food Fraud Prevention Strategy – application to COVID-19

John Spink, PhD

Director, Food Fraud Initiative

Assistant Professor, Supply Chain Management

Eli Broad Business College, MSU

- Introduction to Supply Chain Management (SCM 303)
- Procurement and Supply Management (SCM 371)

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Food Fraud Prevention Resources

Textbook: Food Fraud Prevention (Spink, 2019)

Massive Open Online Course (MOOC – free, open, online)

With a '**certificate of completion**' based on **assessments**

On-demand, ten professional training hours

1. Food Fraud Prevention Overview MOOC
2. Food Fraud Prevention Audit Guide MOOC
3. Food Defense Threat Audit Guide MOOC
4. Food Fraud Vulnerability Assessment & Prevention Strategy (VACCP)



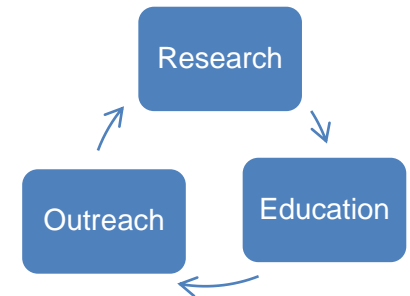
Executive Education

(Includes invitation-only/ brand owner-only sessions)

1. Food Fraud Prevention Annual Update
2. Food Fraud Management Strategy
3. Food Fraud Initial Screening FFIS/ FFVA Workshop

Reports, Primer Documents, and Scholarly Works

Videos and Training Links



Link to Textbook::

<http://www.anrdoezrs.net/links/9101220/type/dlg/https://www.springer.com/us/book/9781493996193>

Our Approach: The Science and Sciences of Food Fraud Prevention

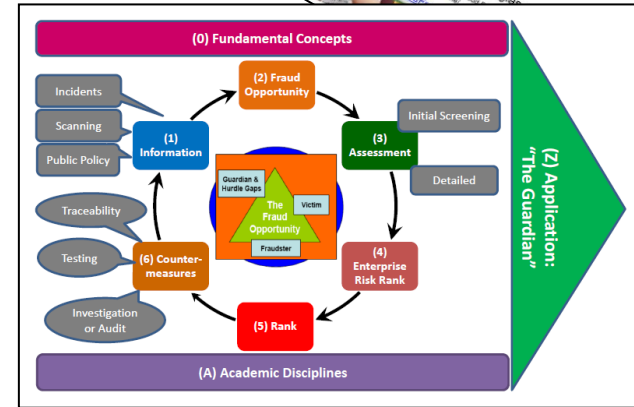
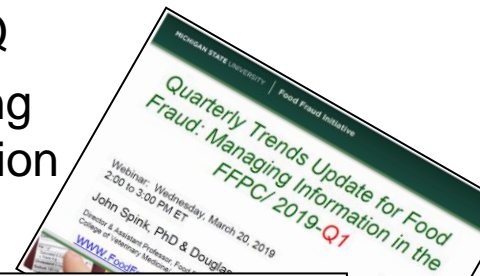


Quarterly Trends Update Webinars Series

- 2018-3Q
- Non-conformity

- 2018-4Q
- GFSI FF Document

- 2019-1Q
- Managing information
- FFPC



<https://doi.org/10.1016/j.foodcont.2019.06.002>



Quarterly Trends Update Webinars Series

- 2019-2Q
- 2019-3Q
- 2020-1Q

MICHIGAN STATE UNIVERSITY | Food Fraud Initiative

Quarterly Trends Update: Food Fraud Compliance for US Laws & Food Laws: 2019-Q2

Webinar: Wednesday, June 20, 2019
2:00 to 3:00 PM ET

John Spink, PhD & Douglas C Moyer, PhD
Director & Assistant Professor, Food Fraud Initiative
WWW.FoodFraudPrevention.com Twitter @FoodFraud #FoodFraud

MICHIGAN STATE UNIVERSITY | Food Fraud Initiative

Quarterly Trends Update: Annual Update and Action Plan 2020: 2019-Q3

Webinar: Tuesday, October 1, 2019
2:00 to 3:00 PM ET

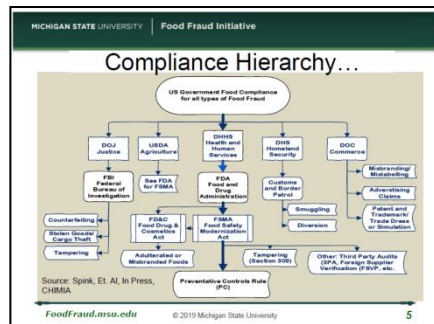
John Spink, PhD & Douglas C Moyer, PhD
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(MSU) School of Business, Michigan State University
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MICHIGAN STATE UNIVERSITY | Food Fraud Initiative

Quarterly Trends Update: FF Implementation Method to "Demonstrate Implementation": 2020-Q1

Webinar: Tuesday, January 14, 2020



MICHIGAN STATE UNIVERSITY | Food Fraud Initiative

GFSI REQUIREMENTS FOR PURCHASING

Food Safety Management System (FSMS) requirements for commercial standards by BRC, IFS, SQF, FSSC 22000, etc.

Food Fraud Annual Update: Process Review

1. Update incidents, review incident collection method and competence
2. Consider best practices and changes in the requirements
3. Develop modification plan
4. Get approval
5. Implementation plan for 2020 – document, get approval, schedule
 1. Finalize incident review for all fraud and all products
 2. Update FF vulnerability assessment -- document, get approval
 3. Update FF Prevention Strategy -- document, get approval
 4. Adjust all methods and processes -- get approval
 5. Prevent, Mitigate or **DISCLOSE** all unacceptable risks – document,

Document: Gap Analysis Annual Review

Q: do you have a management system?
Q: did you update your FFVA & FFPS?

Review: Headlines during our last webinar January 14, 2020

- Not on the front page
- Jan 7 & 10: Asia-Pacific & health
- A concern but not alarming...

Jan. 10 ASIA PACIFIC
China Reports First Death From New Virus
 The coronavirus, which surfaced in the city of Wuhan, has put the region on alert, but there is no evidence that it can spread among humans.
 By Amy Qin and Javier C. Hernandez

PRINT EDITION China Reports First Fatality From New Virus | January 11, 2020, Page A5

Jan. 8 HEALTH
China Identifies New Virus Causing Pneumonia-Like Illness
 The new coronavirus doesn't appear to be readily spread by humans, but researchers caution that more study is needed.
 By Shi-Lee Wee and Donald G. McNeil Jr.

PRINT EDITION Chinese Identify a New Virus Causing an Illness That Resembles Pneumonia | January 10, 2020, Page A13

Jan. 6 ASIA PACIFIC
China Grapples With Mystery Pneumonia-Like Illness
 Beijing is racing to identify a new illness that has sickened 59 people as it tries to calm a nervous public.
 By Shi-Lee Wee and Vishal Wang

PRINT EDITION China. Eases to Calm a Nervous Public. Grapples With Mystery

SARS originated in China and [killed more than 800 people worldwide](#) in 2002 and 2003. At the time, the Chinese govern

Mr. Poon said a surge in cases in the coming week would suggest either that the source of the virus had not been eradicated despite the shutdown of the market or that the illness could be transmitted between humans.

“I hope this pathogen is a less harmful one so it would not cause a major epidemic similar to SARS,” he said. “It would be a nightmare for all of us.”

Is COVID-19 a Food Fraud Risk?

- Note: beyond COVID-19, itself, consider the result of the SCD.
- ***Question: is the vulnerability/ hazard the COVID-19 related SCD?***
- Remember: FSMA 21CFR507.33(a)(2) states:
 - “the hazard analysis must be written regardless of the outcome” including “the hazard may be intentionally introduced for the purposes of economic gain.”
- More broadly, If, or how does a global supply chain disruption and economic disruption change a business fraud risk?
- What should you do?
- How much is enough for your response?
- ***Even though we are in crisis mode just trying to maintain business continuity, the food safety and food regulatory requirements are still in place – you are still required to provide safe and legal product.***

Review: Is a Pandemic a “Black Swan Event”? Or “Reasonably Foreseeable?”

- Coronavirus (2020+) outbreak is the most recent in a series that included (at least five global events in the last 17 years):
 - MERS (2012-2019),
 - Ebola (2014),
 - Avian Influenza (2013),
 - SARS (2003), among others.
- Publication: “10 Threats to Global Health,” WHO, 2/2018
 - the #1 threat was “Pandemic Influenza.”
 - This report stated “another influenza pandemic is inevitable. In this interconnected world, the next global flu outbreak is a matter of “when” not “if” — with far reaching consequences. A severe pandemic could result in millions of deaths and destroy over 1% of global GDP.”
- **Now what??? Now what for Food Fraud prevention?**

Pandemic, epidemic diseases

- Chikungunya
- Cholera
- Crimean-Congo haemorrhagic fever
- Ebola virus disease
- Hendra virus infection
- Influenza (pandemic, seasonal, zoonotic)
- Lassa fever
- Marburg virus disease
- Meningitis
- MERS-CoV
- Monkeypox
- Nipah virus infection
- Novel coronavirus (2019-nCoV)
- Plague
- Rift Valley fever
- SARS
- Smallpox
- Tularaemia
- Yellow fever
- Zika virus disease

Excerpt from Lecture: Introduction to Supply Chain Management
(SCM 303), Business College, Michigan State University

SUPPLY CHAIN DISRUPTIONS

MARCH 2020

- “Supply has been impacted in three primary ways:
 - limited access to employees due to quarantines,
 - factory closures or manufacturing slowdowns,
 - <plus, future shortages up the tiers...
 - And limited access to logistics to move goods.
 - <consider tiers and echelons... how “shut down” is India?
- Most supply chain organizations are in crisis management, assessing impacts and response on a daily, if not hourly basis.”
- Quote: “we are just in replenishment mode.”

Impact Area 2: Products

COVID-19 has the potential to change the competitive landscape. Suppliers for commoditized products are at risk to lose market share, as clients will look into substitute suppliers when they don't receive their products on time. Products associated with a higher degree of brand loyalty are likely to be less impacted in the short term because customers are more willing to wait. As the virus progresses, consumers might adopt more conservative spending patterns, focusing on essential goods.



Gartner Says Supply Chain Leaders Should Focus on Three Key Impact Coronavirus Mitigation

Workforce, Products and Cost are Most Impacted by New Virus

Twitter Facebook LinkedIn

By SCMR Staff · March 20, 2020

With the new coronavirus impacting global supply chain, supply chain leaders should focus on three

in
a
Focus on:

1. Workforce: getting and keeping them
2. Products: what is real **long-term demand shift**
3. Costs: force majeure, now and future trends

What is a supply chain disruption...

“ESTABLISH THE CONTEXT” OF THE ASSESSMENT

Risk Management Basics

- A “**risk source**” is an “object or activity which may cause a risk” (Ref ISO 31000) or an “element which alone or in combination has the potential to give rise to risk.” (Ref ISO guide 73)
- The root cause is often defined as an “**event**,” which is an “occurrence or change of a particular set of circumstances. (ISO 31000).
- One type of event is a “**disruption**,” which creates the effect of an “anticipated or unanticipated event that interrupts normal functions, operations, or processes (e.g., severe weather, political or labour unrest, utility outage, criminal/terrorist attack, technology failure, or earthquake). (ISO 28002)

Supply Chain Management Basics

From the supply chain management literature:

- **Supply Chain Risk:** “the likelihood and impact of unexpected macro and/or micro-level events or conditions that adversely influence any part of a supply chain leading to operational, tactical, or strategic level failures or irregularities.” (RefC)
- **Supply Chain Disruption:** ‘unplanned and unanticipated (event) that disrupts the normal flow of goods and materials within a supply chain.’ [(RefB) citing (Craighead et al., 2007)]

Classifying the Type of Supply Chain Disruptions

COVID or the SCD?

Types of Supply Chain Disruptions

Events:

- Operational/Technical: e.g., forecasting errors, capacity constraints, information technology disruptions
- Social: labor strikes, sabotage
- Natural/Hazard: fire, flood, monsoon, earthquake
- Economy/Competition: interest rate fluctuations, the bankruptcy of suppliers, increased cost of goods
- Legal/Political: lawsuits, wars, border customs, regulations
- Intentional acts for harm or economic gain

Causes:

- Intentional or unintentional,
- Occur inside or outside the normal operation,
- Be conducted by one or many sources (attackers, root causes,
- One company can be the target of another company,
- Have one or many targets,
- The attack could be a one-time or an ongoing program, and
- The SCD could lead to a delay or a stoppage.
- Have an intent for economic gain or harm such as public health, economic or terror

Effects:

- Including delays or stoppages such as:
- macro,
 - demand,
 - manufacturing,
 - supply,
 - infrastructural

Now the disruption is characterized and classified

UPDATING THE FFVA & FFPS

For Food Fraud Prevention:

Change in Vulnerability = **ASSESS**

New Information >>> Vulnerability Assessment >> Act? On What?

Action: Review supply or supplier changes

1. Review incidents – consider rumors or suspicious activity (Mark Twain)
2. Check new supplier list: more than usual?
3. Check volume changes for suppliers: mass balance?
4. Check product changes for suppliers: approved products?
5. New concerns for specific products? Sanitizer? PPE?
6. **Confirm current standard operating procedures are still in practice**
= ASK AND CONFIRM
 - A. **Procurement, supplier on-boarding the same**
 - B. **Procurement, approved supplier processes followed**
 - C. **Supplier quality assurance, same practices**
 - D. **Risk management, complaints are investigated**

NO!
But, try to document your
thinking, process, and
“plus/delta”

...of what? Review the scope.

CRISIS STRESS TEST (OR IN-CRISIS REVIEW)

Food Fraud Compliance Requirements: Scope

“Food Fraud Compliance Requirements — The general compliance requirements for Food Fraud prevention are:

1. Conduct a Food Fraud Vulnerability Assessment (Y/N)
2. Written (Y/N)
3. Create a Food Fraud Prevention Strategy (Y/N)
4. Written (Y/N)
5. **Demonstrate Implementation (Y/N)**
6. **Executive Level Sign-off (Y/N)**
7. Minimally conduct an annual Food Fraud Incident Review (Y/N)
8. **Method to review your incidents and general market incidents (Y/N)**
9. Note: Address all types of Food Fraud (Y/N)
10. Note: Address all products from both incoming goods (e.g., ingredients) and outgoing goods (e.g., finished goods) through to the consumer.” (Y/N)

• Reference:

- Food Safety Magazine, Feb 2017, “*Food Fraud Vulnerability Assessment and Prefilter for FSMA, GFSI and SOX Requirements*”, <http://www.foodsafetymagazine.com/magazine-archive1/februarymarch-2017/food-fraud-vulnerability-assessment-and-prefilter-for-fsma-gfsi-and-sox-requirements/>
- New Food Magazine, Feb 2017: *Food Fraud Prevention – how to start and how much is enough?*, <http://www.newfoodmagazine.com/33890/new-food-magazine/past-issues/issue-1-2017/issue-1-2017-digital-version/>



“Just a Check Box” – yes and no

- There is often a criticism that some audits are just a checkbox – did it, check.
- Is this OK for Food Fraud? For this stage right now?
- **YES!!!!**
- The formal and official process has started



Q: YES OR NO?

Required Documents

- Food Fraud Vulnerability Assessment
 - Clarify details: at least annual, etc.
- Food Fraud Prevention Strategy
 - Clarify details: covers all fraud and all products, etc.

Plus:
FF
Policy

FFVA:
Rank

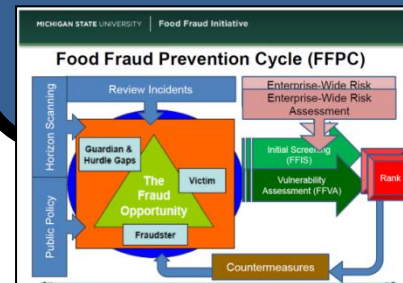
FFPS:
Method

Plus:
FF Audit
Results

MICHIGAN STATE UNIVERSITY | Food Fraud Initiative

Case Study: Corporate Risk Map

	Likelihood	VH	H	M	L	VL	Detail
Consequence		1	2	3	4	5	Incoming 1-VH*M: xxx Outgoing A-VH*M: zzz B-VH-M: aaa D-VH-L: bbb
VERY HIGH	A						
HIGH	B						
MEDIUM	C						2,A 1,B 5,C,G
LOW	D						4,E,F H
VERY LOW	E						3



Discussion

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Twitter: [Food Fraud](#) and [#FoodFraud](#)

www.FoodFraudPrevention.com



Link to Textbook: :

<http://www.anrdoezrs.net/links/9101220/type/dlg/https://www.springer.com/us/book/9781493996193>

MOOC programs: www.FoodFraudMOOC.com



Acknowledgements



Upcoming Webinar

CBD in Food, from A to Z

Tuesday, May 26, 2pm ET

Registration invitation to follow via email

REPOSITRAK.COM