RIVERSIDE™
NATURAL FOODS LTD.

Future-Proofing Organics

A Strategic Environmental Risk and Resilience Framework

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Context & Purpose

Riverside Natural Foods (RNF) depends on a global network of organic growers whose crops are increasingly exposed to environmental pressures. Climate change, water scarcity, and biodiversity loss are reshaping agricultural systems globally, offering the potential to analyze how organic practices will react to these conditions. As these shifts influence crop yields, quality, and long-term viability, they also present material business risks and opportunities for RNF as organic practices have the potential to limit some of the effects on supply stability, cost predictability, and the company's ability to scale responsibly. As RNF continues to grow, understanding how these global pressures affect its ingredients is essential not only for maintaining resilient sourcing but also for safeguarding long-term operational and financial stability.

Riverside Natural Foods

Inspiring a Healthier & More Compassionate World, Where Access to Good Food is a Reality for All

Certified B Corporation

USDA ORGANIC

RNF Headquarters - Toronto, ON

Outcomes

This project provides RNF with a clear, data-driven assessment of the environmental threats facing its top strategic ingredients and the business implications of those risks. By mapping select climate, water, and biodiversity indicators across global sourcing regions, the analysis highlights where vulnerabilities are emerging and where supplier engagement will be most critical. These findings support:

Identifying high-priority hotspots across RNF's supply chain

More informed sourcing and purchasing decisions, as well as opportunities for strengthened supplier engagement and investments in co-resilience

Enhanced long-term strategic partnerships. regulatory disclosures, and reporting activities

Methodology

1. Researched organic agricultural practices, and global reporting frameworks to inform future crop impact assessments
2. Assessed global environmental risks and current crop conditions contextualized across regional growth locations
3. Generated findings of the highest threats representing RNF's supply chain

Example of Ingredient Risk Matrix

		Impact				
		1: Insignificant	2: Minor	3: Moderate	4: Major	5: Catastrophic
Likelihood	5: Almost Certain	5	10	15	20	25
	4: Likely	4	8	12	16	20
	3: Occasional	3	6	9	12	15
	2: Unlikely	2	4	6	8	10
	1: Rare	1	2	3	4	5

CDP-modeled likelihood-impact matrix used to quantify & compare environmental threat severity

	Environmental Risk	Likelihood of Occurring	Impact on Crop	Threat
Climate Risks	Extreme Heat	4	2	8
	Landslides	2	5	10
	Wildfire	4	5	20
	Cyclones	5	5	25
Total				63
Water Risks	Drought	3	3	9
Total				9
Biodiversity Risks	Soil Health	4	4	16
	Pollination	4	4	16
	Pests	4	4	16
Total				48
	Overall Total			120
	Business Impact Multiplier			0.22
	Final Threat Score			**26.40**

Completed ingredient risk matrix capturing relative severity of environmental pressures & business impact

Deliverables

Comprehensive Environmental Risk Report

A synthesis of agricultural research, relevant reporting frameworks, environmental risk databases, ingredient-specific environmmetnal risk profiles

Environmental and Business Risk Matrix

A quantitative model ranking ingredient threats across global environmental risks

Interactive Tableau Dashboards

Dynamic visual tools for climate, biodiversity, water, and business risk analysis and decision-making

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