



HOT SOURCE

Global food integrity issues
and emerging risks

January-March 2022

Q1

FOODCHAIN ID[®]
Seeing Food Clearly

foodchainid.com/technical-services/horizonscan

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Dear Reader

HorizonScan – Helping to mitigate issues in challenging times

The entire world is concerned with the heart-breaking developments in East Europe, but this causes concern for food security across the globe, as it's caused severe disruptions in the middle of the harvesting and growing season.

Both, Russia and Ukraine are very important producers and exporters of some key commodities, therefore the scarcity of food has led to price rises and food security challenges.

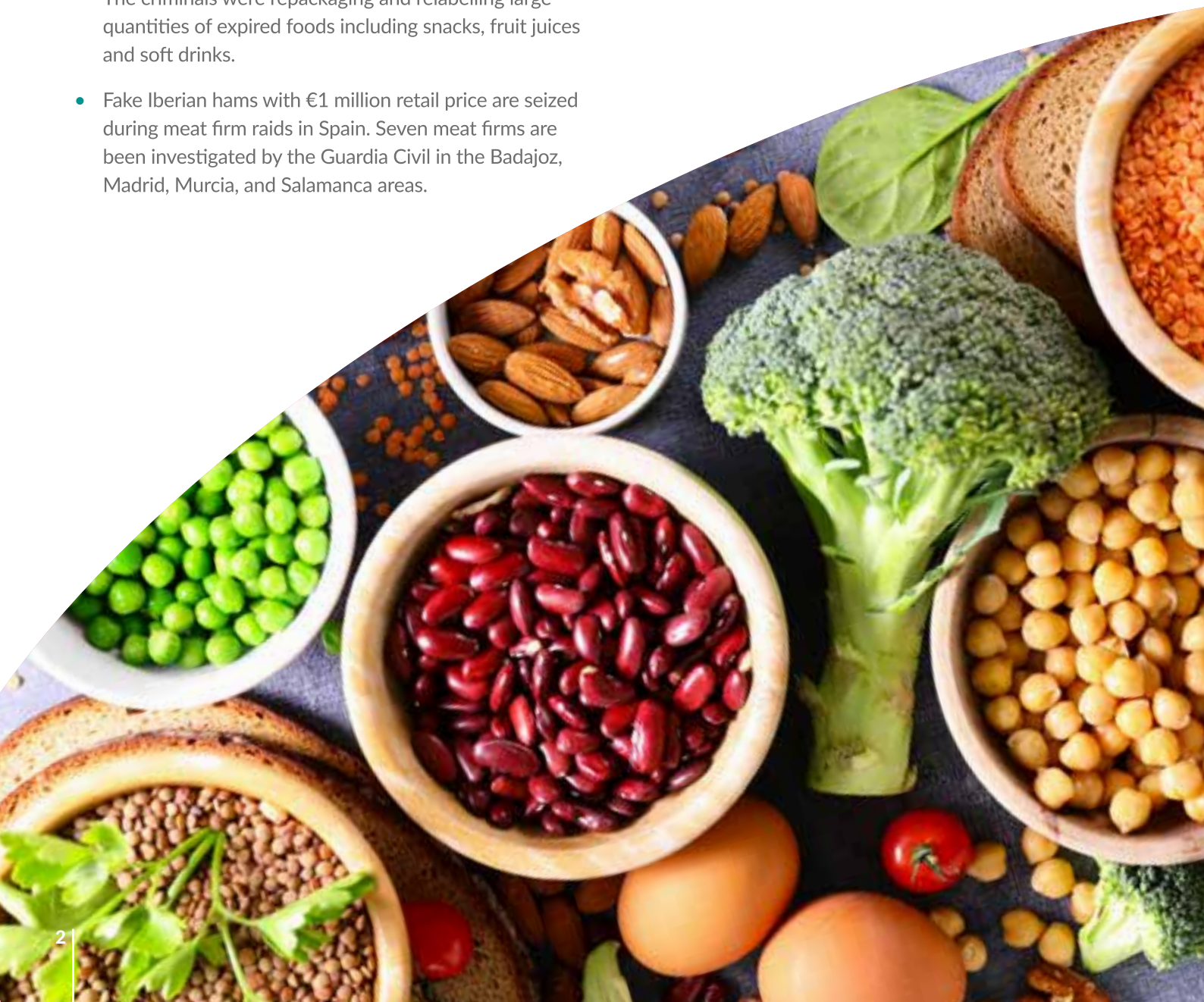
As a leading provider of analysis and testing services to the global food and agricultural industries, Fera Science are constantly ensuring our processes are designed to meet the changing demands of our clients.

To support clients in their quest to manage complex supply chains and combat against food fraud now and in the future, we recommend that you continue to use Horizonscan more often, to help mitigate issues.

The HorizonScan™ Team

Food fraud issues:

- Two Spanish agencies have examined the role of a company in the country as part of a fraud investigation in the Netherlands. The focus was on the export of meat from the Netherlands to Ghana. Chicken meat in the containers was declared as fish with official veterinary certificates and supporting documentation being falsified to get greater economic benefits by getting lower import duties in the country of destination.
- A food fraud involves the fresh egg sector in Italy. The Nas sampled more than 370 businesses, finding irregularities in 66 locations where fresh eggs are stored or produced. They confiscated 32,000 eggs, 4,600 hens and 30 tons of feed that did not comply with the regulations.
- In Italy, labelling machines, counterfeit labels, expired foods and re-labelled foods were discovered by authorities who traced a food fraud criminal operation. The criminals were repackaging and relabelling large quantities of expired foods including snacks, fruit juices and soft drinks.
- Fake Iberian hams with €1 million retail price are seized during meat firm raids in Spain. Seven meat firms are being investigated by the Guardia Civil in the Badajoz, Madrid, Murcia, and Salamanca areas.
- Although the issue is not specifically food safety, the import of avocados from a state in Mexico has been banned because of a safety threat against a U.S. official. The move comes after a drug cartel struck out at growers in the state of Michoacan, which is Mexico's only completely permitted state for exporting the fruit to the U.S. market. The ban hits an industry with a total of almost \$3 billion in exports to the United States.
- The Intelligence and Investigation Service of the Netherlands Food and Consumer Product Safety Authority (NVWA-IOD) is investigating document fraud involving exported chicken. Authorities visited two business premises and two homes in late January. Seven people have been arrested with one released after being questioned this past week. Investigators believe a company based in the east of the Netherlands has been listing frozen chicken meat as other products, such as fish, in documents and then exporting it to countries mainly in Africa.



Emerging issues:

- The report concerning too high content of total volatile basic nitrogen (41.3 mg/100ml) in chilled cod fillet from Finland, via Croatia, has been considered an emerging issue by HorizonScan.
- United States has reported for the first time the findings of illegal and/or undeclared colours carmoisine, tartrazine, sunset yellow and brilliant blue in bread snacks from Nepal.
- An emerging issue has appeared in HorizonScan following the release of a RASFF report over MOSH/ MOAH in red lentils from Turkey, via the Netherlands.
- The detection of E 200 - sorbic acid in cherry nectar and mandarin from Georgia has been considered an emerging issue.
- For the first time, unauthorised novel food (*Lilium Candidum*) in canned mixed vegetables from China has been reported by Spain.
- The detection of high content of lead in nettle leaf powder from Albania has been classified as an emerging issue by HorizonScan. The problem has been notified by Germany.
- The report issued by The Netherlands concerning the detection of Cadmium in avocado from Colombia has been considered an emerging issue by HorizonScan.
- The Slovak Republic has reported the presence of Hydrocyanic acid in bitter apricot kernels from Tajikistan for the first time.

Increasing issues:

- New Zealand recently recorded a sharp increase in *Vibrio parahaemolyticus* infections. In January this year, 30 illnesses were reported compared with three in the same month of 2021.
- United States is seeing an increase in the number of reports regarding *Listeria monocytogenes* being detected in cultivated mushrooms exported from China.
- An increasing issue has been picked up by HorizonScan concerning the detection of unauthorised colours in curry powder from Turkey.
- Climate change is likely to be part of the reason for the increase in mycotoxin issues for the global animal feed business. And the trend is expected to continue and even accelerate over the next 5 years.
- Germany and the Czech Republic are seeing an increasing issue concerning the presence of pyrrolizidine alkaloids in cumin from Turkey.
- Reports alerting about pesticides residues being found in rice from Bangladesh have been considered an increasing issue. The active substances being found are tricyclazole, carbendazim, chlorpyrifos, pirimiphos-methyl and tebuconazole.



Q1 results 2022












		Quarter change from Q4 2021	Annual change from Q1 2021
	Poultry & poultry products	↓ 44.0%	↑ 2.5%
	Seafood	↓ 1.8%	↑ 31.7%
	Milk & dairy products	↑ 12.5%	↑ 186.9%
	Meat & meat products (excluding poultry)	↓ 42.1%	↑ 6.8%
	Herbs & spices	↓ 13.6%	↑ 29.1%
	Fruit & vegetables	↑ 10.8%	↑ 55.0%
	Nuts, nut products & seeds	↑ 67.0%	↑ 85.6%

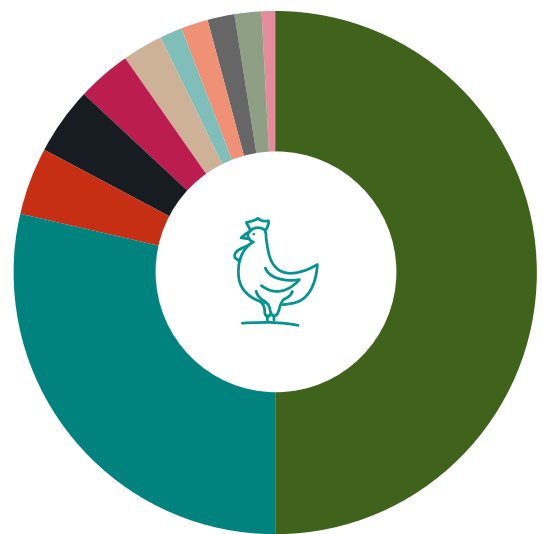


Poultry meat and poultry products

Main issues reported during Q1 2022

Total of 122 issues

Key	Commodity	%	Main issues
	Meat - chicken	50	<i>Salmonella</i>
	Meat products (pâté, burgers etc.)	28.7	<i>Salmonella</i>
	Meat - turkey	4.1	<i>Salmonella</i> or mislabelling
	Eggs	4.1	<i>Salmonella</i>
	Meat - duck	3.3	<i>Listeria</i> or mislabelling
	Meat products - sausages	2.5	<i>Salmonella</i> or undeclared allergens
	Offal - chicken	1.6	<i>Salmonella</i>
	Meat, minced, ground - chicken	1.6	<i>Salmonella</i>
	Meat - guinea fowl	1.6	Mislabelling or <i>Salmonella</i>
	Meat, minced, ground - turkey	1.6	<i>Salmonella</i>
	Meat - goose	0.8	Cadium










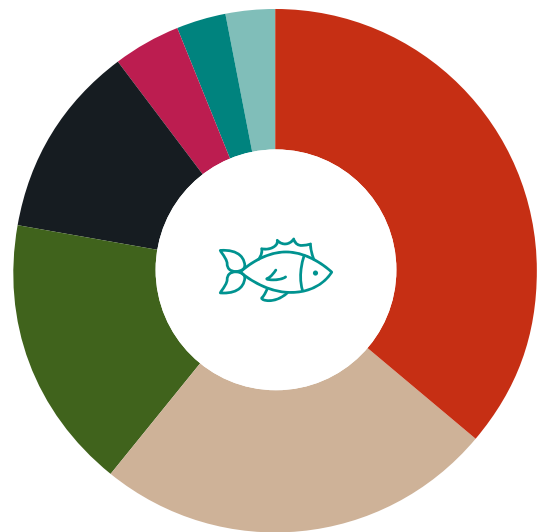


Seafood

Main issues reported during Q1 2022

Total of 270 issues

Key	Commodity	%	Main issues
	Fish - fresh/frozen	36.3	Mercury, <i>Salmonella</i> or altered organolepsis
	Fish - smoked/cured/dried	24.8	<i>Listeria</i> or mislabelling
	Crustaceans (crab, shrimps etc.)	17	Vet drugs
	Bivalve molluscs (mussels etc.)	11.9	Norovirus
	Cephalopods (octopus, squid etc.)	4.1	Cadmium or fraudulent documentation
	Seaweed, algae, carrageenan	3	Iodine
	Other sea food	3	Altered organolepsis



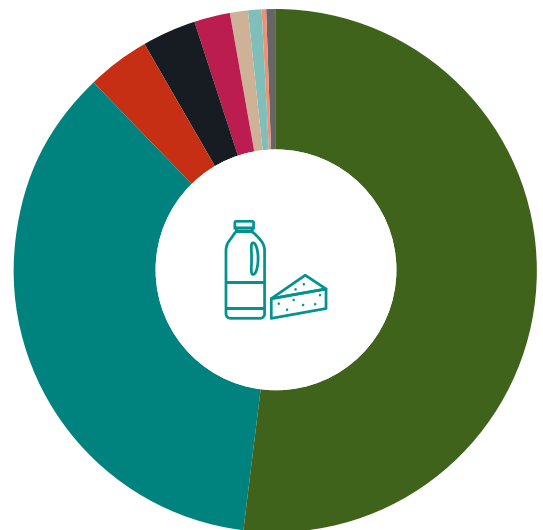


Milk & dairy products

Main issues reported during Q1 2022

Total of 308 issues

Key	Commodity	%	Main issues
	Milk products - ice-cream	51.9	Pesticides
	Milk products - cheese	36	<i>Listeria</i>
	Milk products - butter and ghee	3.9	<i>Listeria</i> other micro contaminants
	Milk products - yoghurt	3.2	Foreign bodies
	Milk - bovine (cow)	2.3	<i>Listeria</i> or other inorganic contaminants
	Milk products - cream	1	<i>Listeria</i>
	Milk products - beverages	1	Adulteration or fraudulent documentation
	Milk products - condensed milk	0.3	Altered organolepsis
	Milk products - whey powder	0.3	Adulteration













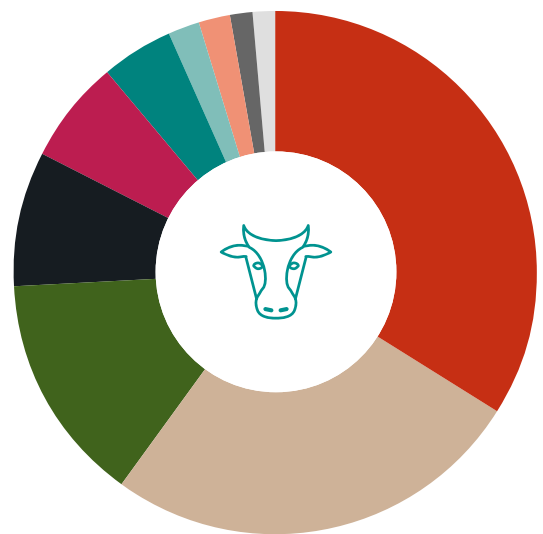


Meat and meat products (other than poultry)

Main issues reported during Q1 2022

Total of 157 issues

Key	Commodity	%	Main issues
	Meat products - sausages	33.8	<i>Listeria, Salmonella or mislabelling</i>
	Meat products and preparations	26.1	<i>Listeria</i>
	Meat products - hams	14	<i>Listeria</i>
	Meat - bovine (beef, veal, cow)	8.3	<i>Salmonella, E. coli or Listeria</i>
	Meat - porcine (pork, pig)	6.4	<i>Salmonella</i>
	Meat, minced, ground - bovine	4.5	<i>Listeria, Salmonella or E. coli</i>
	Meat - other, mixed or unspecified	1.9	<i>Salmonella</i>
	Offal - bovine (beef, veal, cow)	1.9	Produced without inspection
	Meat, minced, ground - mixed	1.3	<i>Salmonella or Listeria</i>
	Meat - amphibian	1.3	














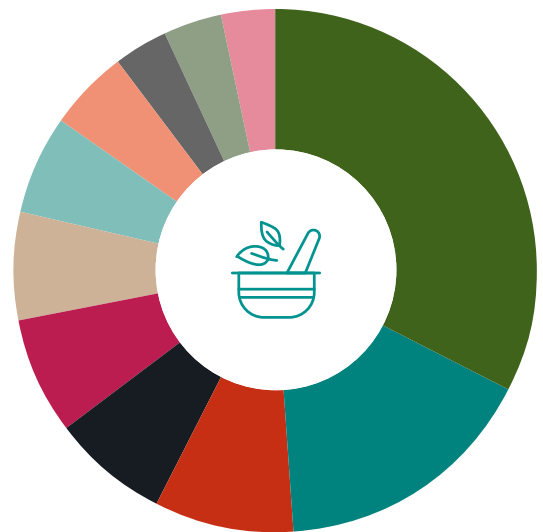


Herbs & spices

Main issues reported during Q1 2022

Total of 204 issues

Key	Commodity	%	Main issues
	Spice mixtures/other spices	26.5	Pesticides
	Pepper, black, pink and white	13.2	<i>Salmonella</i>
	Coriander leaves (cilantro)	6.9	Pesticides
	Paprika and chilli powder	5.9	<i>Salmonella</i> , pesticides or aflatoxins
	Ginger	5.9	Pesticides, undeclared sulphites or aflatoxins
	Cumin seed and ground (jeera)	5.4	Undeclared sesame or other natural toxicants
	Other spices - gums and resins	4.9	Pesticides
	Tamarind	3.9	Altered organolepsis
	Nutmeg whole and ground	2.9	Aflatoxins
	Cinnamon	2.9	Pesticides
	Basil	2.5	Pesticides












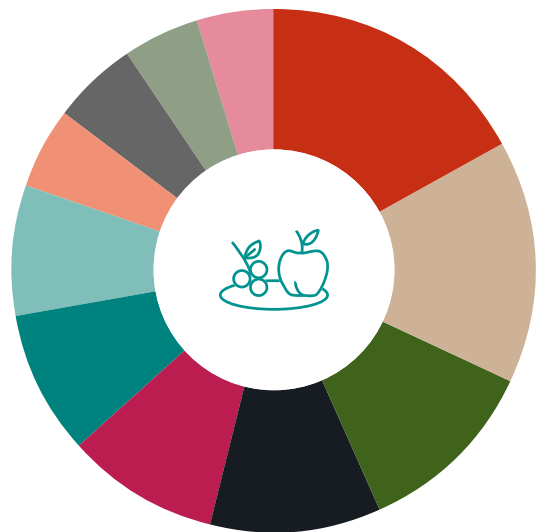


Fruit & vegetables

Main issues reported during Q1 2022

Total of 637 issues

Key	Commodity	%	Main issues
	Cultivated mushrooms and fungi	8.9	Listeria or pesticides
	Grapefruit	7.8	Pesticides
	Lemons	5.8	Pesticides
	Peppers - fresh or dried	5.5	Pesticides
	Chilli peppers - fresh or dried	4.9	Pesticides
	Figs - dried	4.6	Aflatoxins
	Mandarins	4.2	Pesticides
	Oranges	2.7	Pesticides
	Beans (dry)	2.7	Pesticides
	Prunes	2.4	Lead
	Raisins	2.4	Pesticides



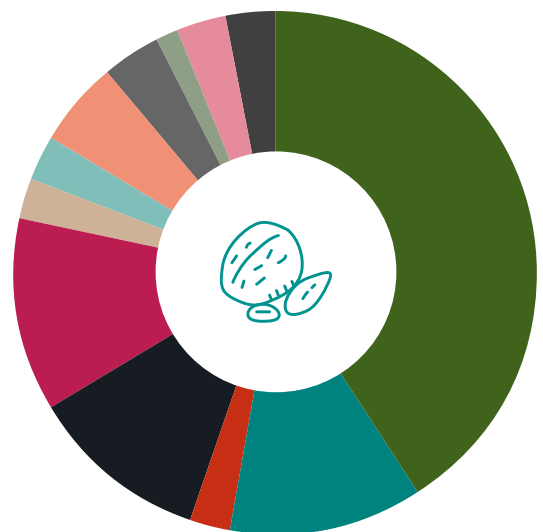


Nuts, nut products and seeds

Main issues reported during Q1 2022

Total of 169 issues

Key	Commodity	%	Main issues
	Pistachios	33	Aflatoxins
	Almonds including ground almonds	9.6	Hydrocyanic acid
	Melon (egusi) seeds	2.1	Colours for use in foodstuffs
	Other tree nuts & mixed nuts	8.9	Aflatoxins
	Nut spreads and butters	9.6	Mineral oil or undeclared peanuts
	Other seeds - not listed	2.1	<i>Salmonella</i>
	Apricot kernels	2.1	Hydrocyanic acid
	Bean sprouts (mung beans)	4.3	Cadmium
	Pumpkin seeds	3	<i>Salmonella</i>
	Cashew nuts	1.1	<i>Salmonella</i> or altered organolepsis
	Macadamia nuts	2.4	<i>Salmonella</i>
	Coconut juice, milk, cream or water	2.4	Unapproved premises





KEY

'%' relates to the number of issues concerning that commodity in its group, for example 36% of all issues concerning nuts, nut products and seeds involved pistachios.

'Main issues' reflects the majority of issues reported for that commodity, but does not include every minor issue, for example, most reported issues concerning chicken meat were the presence of Salmonella.

'Issues' relates to food recalls, border rejections and other such notifications at a global level collated from over 90 official government and other additional reliable sources around the world.

For further information or a demonstration from the team on HorizonScan, contact the Team on;

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