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# Inspection Results of Imported Foods Monitoring and Guidance Plan for FY 2010

### **Interim Report**

December 2010

Department of Food Safety
Pharmaceutical and Food Safety Bureau
Ministry of Health, Labour and Welfare

Inspection Results of Imported Foods Monitoring and Guidance Plan for FY 2010 (Interim report)

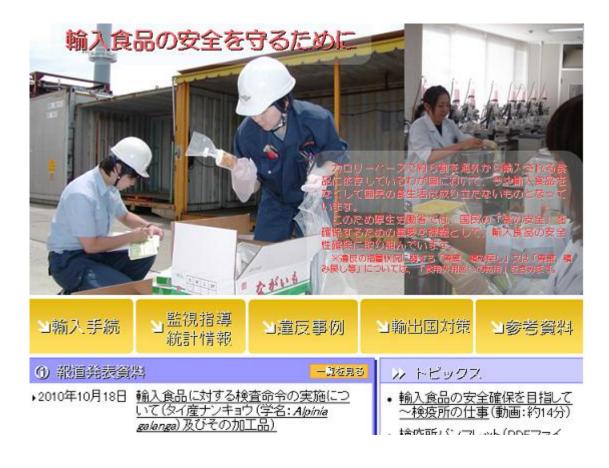
#### 1. Introduction

In order to monitor and provide instructions to ensure the safety of foods, etc., imported into Japan (hereafter referred to as "imported foods, etc."), the government established the imported food monitoring and instruction program in 2010 (hereinafter, "the program"). The program is based on the guidelines for monitoring and providing instructions in food sanitation (Ministry of Health, Labour and Welfare Notification No. 301, 2003) as per the regulations of Article 23, Paragraph 1 of the Food Sanitation Act (Act No. 233, 1947; hereinafter, "the Act"); public comments were collected and risk communication was conducted. The program was published in the Official Gazette as an official report according to the regulations of Paragraph 3 of the same article, and the monitoring and instruction for imported foods, etc., is being conducted based upon the Program.

This document presents an outline of the implementation status of the monitoring and instruction for imported foods, etc., conducted in accordance with the program, for the period April to September 2010.

Reference: Website on "Safety of Imported Food"

http://www.mhlw.go.jp/topics/yunyu/tp0130-1.html



## 2. Overview of the Imported Foods Monitoring and Guidance Plan for FY 2010

### (1) What is the Imported Foods Monitoring and Guidance Plan?

The Imported Foods Monitoring and Guidance Plan is a plan for the implementation of monitoring and guidance conducted by the national government with respect to imported foods (Article 23, paragraph 1 of the Act).

[Objective] To ensure greater safety of imported foods by promoting the national government to conduct inspections at the time of importation and to conduct monitoring of and guidance for importers in an intensive, effective and efficient manner.

### (2) Principles for Monitoring and Guidance on Imported Foods

Based on Article 4 of the Food and Safety Basic Act (Act No.48 of 2003) (that is, food safety shall be ensured by taking appropriate measures at each stage of the domestic and overseas food supply process), the Plan is prepared in order that three stages of sanitation measures are taken, namely, in the exporting country, at the time of importation, and at the time of domestic distribution.

(3)	Priority Items for Monitoring and Guidance
0	Confirmation of whether violations of the Act exist at the time of import declaration
0	Monitoring*1 (Plan for 2010: 85,000 items across 160 food groups)
0	Inspection orders*2 (as of September 30, 2010: 16 items from all exporting countries and 131
	items from 33 countries and 1 region)
0	Regulations for comprehensive import bans*3
0	Emergency responses based on overseas information, etc.
(4)	Promotion of Sanitation Measures in Exporting Countries
0	Requests to the governments of exporting countries for the establishment of sanitation control
	measures
0	Strengthening of control and monitoring systems for agricultural chemicals, etc., and the
	promotion of pre-export inspections, through on-site inspections and bilateral talks
(5)	Guidance for Importers on Voluntary Sanitation Control
0	Pre-import guidance (so-called "import consulting")
0	Guidance for voluntary inspections at initial importation and on a regular basis
0	Instructions on the keeping of records
0	Dissemination of knowledge on food sanitation to importers, etc.

<sup>\*1:</sup> Systematic inspections based on statistical concepts that take into account the volume of imports and violation rates, etc., for different food types.

<sup>\*2:</sup> With regard to items having a high probability of being in violation of the Act, inspections are ordered by the Minister of Health, Labour and Welfare at each and every importation. Items are not permitted to be imported or distributed unless they pass that inspection.

<sup>\*3:</sup> Regulations by which the Minister of Health, Labour and Welfare can prevent the sale or import of specified foods, without the need for inspections, in cases where it is deemed necessary from the perspective of preventing harm to public health.

# 3. Inspection Results of Imported Foods Monitoring and Guidance Plan for FY 2010 (Interim Report)

Looking at the declarations, inspections and violations made from April through September of 2010 (Table 1), there were 1,011,512 [903,873] declarations, and the weight of declared items was 12,013 [11,791] million tons.

Inspections were carried out on 128,344 items (there were inspection orders on 62,498 items, monitoring on 28,103 items, and voluntary inspections on 37,743 items) [108,390 items (inspection orders on 54,221 items, monitoring on 24,200 items, and voluntary inspections on 29,969 items)]. Of these, 736 cases [660 cases] were found to be in violation of the Act, and steps were taken for their re-shipment, disposal, etc.

Records of violations categorized by Article (Table 2) show that violations of Article 11 of the Act, which is related to microbiological criteria for food, standards on residual agricultural chemicals and standards for the use of additives, were most common in 394 instances, followed by violations of Article 6, which is related to contamination with hazardous or toxic substances such as aflatoxin, in 229 instances, violations of Article 10, which is related to restrictions on the sale of additives, in 69 instances, violations of Article 18, which is related to standards for apparatus or containers and packaging, in 62 instances, and violations of Article 18 (applied mutatis mutandis to Article 62) of the Act, which is related to standards for toys, in 9 instances.

Records of monitoring in FY 2010 (Table 3) show that, out of a total of 85,018 planned inspections, 50,684 were actually conducted. (That's an implementation rate of about 60%.) Of these, a total of 113 constituted violations of the Food Sanitation Act, resulting in recalls and enhanced monitoring to identify possible future violations (Table 4). Additionally, as a result of enhanced monitoring, the monitoring system has been strengthened for imported foods, etc. which are considered to have a high probability of violating the Food Sanitation Act, by making them subject to inspection orders and requiring importers to undergo inspections at the time of import (Table 5).

As of September 30, 2010, inspection orders had been applied to 16 products from all exporting countries and 131 products from 33 countries and 1 region. The record of inspection orders (Table 6) shows that a total of 119,490 inspection orders were conducted and, of these, steps were taken for their re-shipment or disposal, etc. based on 148 violations of the Act.

Based on information from overseas on such topics as food-poisoning occurrences and recalls of law-violating food products, the system for monitoring items for importation was enhanced in FY 2010 for issues such as Natamycin in wine from Argentina, and fungal contamination in mineral water from France (Table 7).

Figures in brackets are for the same period in the previous year.

Table 1. Notification, Inspection and Violation Statuses (Apr-Sep 2010: Tentative)

No. of Notifications	Amount of Import	No. of Inspections <sup>*1</sup>	Percentage**	No. of Violations	Percentage**
Cases	1,000 tons	Cases	%	Cases	%
1,011,512	12,013	128,344 (62,498) <sup>**3</sup>	12.7	736	0.07
(Previous FY)					
903,873	11,791	108,390	12.0	660	0.07

X1 Values obtained after excluding overlapping cases from the total values of monitoring inspections, inspection orders, instructive inspections, etc.

Table 2. Major Violation Cases (Apr-Sep 2010: Tentative)

Violated Article	No. of Violations	Proportion	Major Violations
Article 6 (Distribution of prohibited foods and additives)	Cases	30	Aflatoxin contamination in corn, pearl-barley, peanuts, almonds, sesame, etc.; cyanide contamination in cassava; Listeria monocytogenes contamination in meat products; detection of diarrhetic shellfish toxin; contamination with toxic fish; and decay, deterioration and fungus formation due to accidents during the transport of rice, wheat and cacao beans, etc.
Article 9 (Limitation on distribution, etc. of diseased meat, etc.)	0	0	
Article 10 (Limitation on distribution, etc. of additives, etc.)	69	9	Processed foods that contain additives such as cyclamate, tertiary butylhydroquinone (TBHQ), orange II, azorubin, melamine, or any other additives not designated for use as additives
Article 11 (Standards and specifications for foods and additives)	394	52	Violation of specifications for vegetables and dried vegetables (violation of standards for residual pesticides); violation of specifications for seafood and processed products thereof (including antibacterial substances, and violation of standards for residual pesticides); violation of specifications for frozen foods (viable cell count, Escherichia coli and coliform bacilli), violation of standards for usage of additives (sorbic acid, benzoic acid, etc.); and excessive amounts of residual additives (sulfur dioxide,
Article 18 (Standards and specifications for	62	8	Violation of specifications/standards for instruments and containers/packages; violation of specification for raw materials
Article 18 applied mutatis mutandis to	9	1	Violation of specifications for toys or their raw materials

<sup>\*2</sup> Proportion of the number of inspections to the number of notifications

**X3** Figures relate to inspection orders

Article 62 (Mutatis mutandis as applied to toys, etc.)			
Total	736 (numbe	number) <sup>*1</sup> er of notified ions) <sup>*2</sup>	

X1 Total number of item-by-item inspections

<sup>\*2</sup> Number of notifications for which inspection was carried out

Table 3. Implementation Status of Monitoring Inspections (Apr-Sep 2010: Tentative)

Food Group	Category of Inspected Items <sup>*1</sup>	No. of Programs Planned in FY**2	No. of Programs Implemented	No. of Violation
	Antibacterial	2,243	1,129	4
Livestock Foods Beef, pork, chicken, horse meat,	substances, etc. Residual agricultural chemicals	1,884	1,068	0
poultry meat, and other meats	Standards for constituents	716	348	0
	Exposure to radiation	29	0	0
	Antibacterial substances, etc.	2,362	1,170	1
Processed livestock foods Natural cheeses, processed meat	Residual agricultural chemicals	923	678	1
products, ice cream, frozen products (meat products), and	Additives	1,911	1,111	0
other products	Standards for constituents	2,298	1,062	7
	Exposure to radiation	5	0	0
	Antibacterial substances, etc.	2,896	1,370	1
Seafood products	Residual agricultural chemicals	1,967	1,330	7
Bivalves, fish, shellfish (shrimps, prawns, crabs) and other products	Additives	207	171	0
	Standards for constituents	1,439	678	0
	Exposure to radiation	29	0	0
	Antibacterial substances, etc.	3,969	2,451	1
Processed seafood Processed fish products (fillet,	Residual agricultural chemicals	2,888	2,376	1
dried or minced fish, etc.) processed fish roe products, and	Additives	1,960	1,687	0
other products	Standards for constituents	3,556	3,426	20
	Exposure to radiation	5	0	0
	Antibacterial substances, etc.	884	979	0
A minulannal for de	Residual agricultural chemicals	15,482	8,493	31
Agricultural foods Vegetables, fruit, wheat, barley,	Additives	1,016	590	2
corn, beans, peanuts, nuts, seeds, and other products	Standards for constituents	1,181	823	0
r	Mycotoxins	2,959	1,981	3
	GMOs	751	464	0
	Exposure to radiation	29	0	0
	Antibacterial substances, etc.	119	91	0
Processed agricultural foods Frozen products (processed	Residual agricultural chemicals	8,001	4,412	8
vegetables), processed vegetable products, processed fruit products, spices, instant noodles, and other products	Additives	3,804	2,646	3
	Standards for constituents	2,746	1,694	9
	Mycotoxins	1,937	824	1
	GMOs Exposure to	119 446	40 0	0
Other foods Health foods, soups, flavourings, seasonings, sweets, edible oils,	radiation  Residual agricultural chemicals	147	345	0

fat, frozen products, and other	Additives	3,047	1,749	6
products	Standards for constituents	897	375	2
	Mycotoxins	717	385	0
Drinks and beverages	Residual agricultural chemicals	358	263	0
Mineral water, soft drinks, alcoholic beverages, and other	Additives	776	576	2
products	Standards for constituents	956	499	1
	Mycotoxins	118	61	0
Additives, equipment, containers and packages Toys	Standards for constituents, etc.	2,241	933	2
Foods subject to enhanced monitoring inspections	Confirmation of removal of SRM, antibacterial substances, etc, exposure to radiation, additives	5,000	2,406	0
Total (number)	85,018	50,684 Rate of programs implemented to planned: ~60%	113	

<sup>\*1:</sup>Examples of tested substances

- · Antibacterial substances, etc.: antibiotics, synthetic antimicrobials, hormone drugs, feed additives, etc.
- ·Residual agricultural chemicals: organophosphorous, organochlorine, carbamates, pyrethroid, etc.
- Additives: sorbic acid, benzoic acid, sulfur dioxide, coloring agents, polysorbate, cyclamic acid, TBHQ, antimold agents, etc.
- •Standards for constituents, etc.: Items stipulated in the compositional standards (bacteria count, coliform bacteria, Vibrio parahaemolyticus, etc.), pathogenic microorganisms (enterohemorrhagic E. coli O157, listeria monocytogenes, etc.), shellfish poisons (diarrhetic shellfish poison, paralytic shellfish poison), fungicide for disposable wooden chopsticks, etc.
- Mycotoxin: aflatoxin, deoxynivalenol, patulin, etc.
- •Genetically modified organs (GMOs): genetically modified foods, etc. that have not been assessed for safety.

<sup>\*2:</sup> Rough estimate of the number of item-by-item inspections of antibacterial substances, agricultural chemicals, etc.

Table 4. Items<sup>\*\*2</sup> Subject to Enhanced Monitoring Inspections<sup>\*\*1</sup> (Apr-Sep 2010)

Countries/Regions	Subject Foods	Test Items
	Asian swamp eel, Crucian carp	Enrofloxacin
	Vespula flaviceps nests	Oxytetracycline
	Freshwater clams	Chlortetracycline, Furazolidone
	Cultured pufferfish (only products exported by 1. Dalian Fugu Aquatic Product Co., Ltd. 2. Qinhuangdao Xinhai Foodstuffs Co., Ltd. 3. Dalian Pucheng Aquatic Co., Ltd.)	Furazolidone
	Chicken	Sulfachinoxalin
	Swimming crab	Trifluralin
	Japanese leeks (inc. wakegi green onion)	Flusilazole
China	Mandarin fish	Malachite green
Сппа	Cabbage, Chrysanthemum greens, Celery, Pak choi	Chlorpyrifos
	Immature Beans	Chlorpyrifos, Cypermethrin, Dimethomorph, Isoprothiolane, Flusilazole
	Asiasarum root	Fenvalerate
	Edamame (green soybeans), Shiitake mushrooms	Fenpropathrin
	Coffee beans	ү-ВНС
	Soba (inc. flour), White Jew's ear	Methamidophos
	Boiled octopus	Vibrio parahaemolyticus**3
	Sea urchins for raw consumption	Vibrio parahaemolyticus (MPN)*
	Winged bean, Canh chua rau nhút	EPN
	Basil seeds	Aflatoxin
	Pak ped, Thai celery, Galangal	Chlorpyrifos
	Acacia	Isoprothiolane, Chlorpyrifos
	Eryngium foetidum	Difenoconazole
m	Kale, Immature beans	Cypermethrin
Thailand	Collard greens	Cypermethrin, Fenvalerate
	Japanese leeks (inc. wakegi green onion)	Triazophos
	Puk prew, Rice paddy herb, Gotu kola, Dill, Peppermint	Parathion-methyl
	Coriander	Parathion-methyl, Fenobucarb
	Beefsteak plant	Fenitrothion
	Lime basil	Fenobucarb
	Royal jelly (inc. dried)	Chloramphenicol
	Soft-shelled turtles Grouper	Chlortetracycline Malachite green
Taiwan	Day Lily (Liliaceae hemerocallidaceae), Pleurotus cystidiosus, Celery, Taro, Garlic chives	Chlorpyrifos
	Oolong tea	Bromopropylate
	Chicken	Lasalocid
	Lemon (limited to brand name: American Gold)	Orthophenyl phenol
	Corn (limited to popcorn)	Pirimiphos-methyl
USA	Artichoke	Fenvalerate
	Spinach	Permethrin
	Processed almond products (limited to those where almond is the main ingredient)	Aflatoxin

Countries/Regions	Subject Foods	Test Items
	Prepared chicken products (limited to tenderized products from Manufacturer: Stampede Meat Inc. Address: 4551 S. Racine Chicago, IL 60609.)	Enterohemorrhagic Escherichia coli (E.coli) (O157)
	Japanese parsley, Garlic chives	Chlorpyrifos
	Wakegi (Allium wakegi)	Chlorpyrifos, Procymidone
	Green chili	Difenoconazole
South Korea	Lettuce	Dimethomorph
	Leaf lettuce	Procymidone
	Arch shells for raw consumption, Sea urchin for raw consumption	Vibrio parahaemolyticus (MPN)*
	Chicken (limited to those processed at processing plant number 7103A CEE)	Sulfachinoxalin
France	Rabbit	Sulphadimethoxine
	Jerusalem artichoke	Chlorpropham
	Lentils	Deltamethrin and tralomethrin
	Cultured eels	Furazolidone
	Catfish	Trifluralin
Vietnam	Sesame seeds and processed sesame seed products (limited to those where sesame seeds are a major ingredient)	Aflatoxin
	Sorghum bicolor (inc. varieties for spirit production) and processed products thereof (limited to those where sorghum bicolor (inc. varieties for spirit production) is the main ingredient)	Aflatoxin
	Soba (inc. flour)	Chlorpyrifos
Australia	Rapeseed (limited to those exported by 1. Graincorp Operations Ltd. 2. Global Grain Australia Pty Ltd. 3. Kangaroo Island Canola Company)	Fenitrothion
	Corn (exc. sweet varieties)	Aflatoxin
	Beef (limited to those processed, etc. by Consolidated Meat Group Pty Ltd. (Est.7))	Enterohemorrhagic Escherichia coli (E.coli) (O157)
Italy	Uncooked meat products (limited to those produced by Casale S.P.A (I550L), Renzini S.P.A. (645L), Salumificio Maison Bertolin S.R.L. (1615L))	Listeria monocytogenes
	Corn (inc. flour, exc. sweet varieties)	Aflatoxin
Brazil	Chicken (limited to those processed by Kaefer Agro Industrial Ltda. (SIF:1672))	Enrofloxacin
Spain	Western sulculus diversicolor supertexta	Paralytic shellfish toxin
Spain	Wild strawberries	Ethoprophos
D1 : 1:	Bananas (limited to those from farm number 39)	Bitertanol
Philippines	Sea urchin for raw consumption	Vibrio parahaemolyticus (MPN)*
Ghana	Cacao beans	Thiamethoxam
Laos	Eryngium foetidum	Chlorpyrifos
Myanmar	Chickpeas	Aflatoxin
South Africa	Apple juice (limited to those using apple juice as an ingredient) and apple juice used as an ingredient	Patulin
Iran	Shelled pistachio nuts	Pirimiphos-methyl
UAE	Chickpeas	Aflatoxin
Belgium	Celeriac	Chlorpyrifos

Countries/Regions	Subject Foods	Test Items
Ecuador	Bananas (limited to those with brand name Enano, Farm No. 883, and brand name Chiquita, Farm No. 10-230)	Bitertanol
Mexico	Mangoes	Cypermethrin
Cambodia	Basil seeds	Aflatoxin
Austria	Horseradish	Dimethomorph
Greece	Processed pistachio nut products (limited to those using pistachio nuts as a major ingredient)	Aflatoxin
Indonesia	Turmeric and processed turmeric products (limited to those using turmeric as a major ingredient)	Aflatoxin
Guatemala	Coffee beans	2,4-D
Peru	Caigua	Chlorpyrifos
New Zealand	Leek	Alachlor
Paraguay	Peanuts	Cypermethrin

<sup>\*1</sup> Enhanced monitoring inspections, which are to be implemented after a violation has been detected, were conducted on 30% of all import declarations. Items which had seen inspection orders rescinded as a result of import or inspection results were also handled in the same way. However, if no similar violations were detected within 60 enhanced monitoring inspections, the items were returned to the normal inspection system.

Table 5. Items Shifted to Inspection Orders (Apr-Sep 2010)

Countries/Regions	Subject Foods	Test Items
China	Asparagus	Ametryn
China	Daggertooth pike conger	Trifluralin
Thailand	Eryngium foetidum	Chlorpyrifos, Cypermethrin Buprofezin
	Canh chua rau nhút	Triazophos
India	Mangoes	Chlorpyrifos
Brazil	Beef (inc. internal organs)	Ivermectin
Vietnam	Immature beans (limited to pod and snap beans)	Acephate
Taiwan	Cultured eels	Fenitrothion

<sup>\*2</sup> Excludes items in Table 5.

<sup>\*3</sup> As a measure to enhance inspections during the summer period, all (100%) import declarations were inspected (Jun-Oct 2010).

<sup>\*4</sup> As a measure to enhance inspections during the summer period, 30% of import declarations were inspected (Jun-Oct 2010).

Table 6. Items Subject to Inspection Orders and Inspection Results (Apr-Sep 2010: Tentative)

Countries /Regions	Main Subject Foods	Main Test Items	No. of Tests*	No. of Viola tions
All	Peanuts, Nuts, Chili peppers	Aflatoxin	4,936	31
exporting	Beans containing cyanide, cassava	Cyanide	313	0
countries (16 items)	Salted salmon roe	Nitrite	419	3
(10 Items)	Pufferfish Chicken, Pork, Soba, Shrimps, Eels, etc.	Depending on fish species  Nitrofurans, Tetracycline antibiotic, Clenbuterol, Malachite green, etc.	41,324	18
	Fruit and vegetables, Beans, Fish, etc. (Large peanuts, Green tea, Japanese leeks, Matsutake mushrooms, Lychee, weather loaches, etc.)	Acetochlor, Triazophos, Tebufenozide, Chlorpyrifos, Endosulfan, etc.	20,280	13
China (35 items)	Clams	Paralytic shellfish toxin, Diarrhetic shellfish toxin	3,587	1
	Processed eel products, etc.	Viable cell count, Coliform group	1,106	0
	Processed foods, etc.	Cyclamic acid	1,005	0
	Milk, dairy products, and processed foods containing those as an ingredient	Melamine	5,832	0
	Lotus seeds	Aflatoxin	2	0
	Constricted tagelus, freshwater clams, etc.	Endosulfan, etc.	108	2
South Korea	Vegetables (mini tomato, red chilli)	Fluquinconazole, EPN, Ethoprophos	141	1
(14 items)	Clams	Paralytic shellfish toxin, Diarrhetic shellfish toxin	360	1
	Tairagigai (Atrina pectinata) for raw consumption	Vibrio parahaemolyticus	2	0
mı :ı ı	Cultured shrimps	Oxolinic acid	721	0
Thailand (11 items)	Fruit and vegetables (Eryngium foetidum, Kaffir lime leaves, Okra, Mangoes, Bananas, etc.)	EPN, Chlorpyrifos, Cypermethrin, Profenofos, etc.	806	5
7. 1	Uncooked meat products	Listeria monocytogenes	320	3
Italy (7 items)	Spring onion	Chlorpyrifos	19	2
(7 recins)	Almonds, etc.	Aflatoxin	59	0
	Cassia seeds, Turmeric	Aflatoxin	151	4
India (7 items)	Fruit and vegetables (Cumin seeds, Mangoes, etc.)	Profenofos, Chlorpyrifos, etc.	49	1
	Cultured shrimps	Furazolidone	16	0
Taiwan	Cultured eels	Fenitrothion, Nitrofurans, etc.	4,752	0
(6 items)	Fruit and vegetables (Carrots, Mangoes, etc.)	Methamidophos, Cypermethrin, etc.	118	0
	Processed foods, etc.	Cyclamic acid, etc.	40	0
USA	Corn	Aflatoxin	1,372	2
(6 items)	Parsley	Chlorpyrifos	100	0
Vietnem	Shrimps, Cuttlefish	Chloramphenicol, Nitrofurans, etc.	15,460	17
Vietnam (6 items)	Immature beans, Spinach	Acephate, Indoxacarb	52	2
	Processed foods, etc.	Cyclamic acid	47	0
Ecuador (6 items)	Cacao beans	2,4-D, Cypermethrin, Diuron (DCMU)	174	14
Ghana (1 item)	Cacao beans	Fenvalerate, Endosulfan, etc.	972	7
Venezuela	Cacao beans	2,4-D	113	6
(1 item)	Cacao beans	Aflatoxin	113	0

Others (23 countries, total 31 items)	14,	520	15
Total	119,	490	148

<sup>\*</sup> Total number of item-by-item inspections

Table 7. Major Examples of Enhanced Monitoring based on Overseas Information (Apr-Sep 2010)

Month of Enhancement	Subject Country	Subject Food and Details	Background and Status
April	Argentina	Wine  (Risk of natamycin contamination)	Manufacturers were identified based on information on product recalls in South Korea, and where an import notification was made for products produced by said manufacturers, guidance was given on voluntary inspections at time of first import, and domestic distribution investigated.
May	France	Mineral water  (Risk of fungal contamination)	Products were identified based on information on product recalls in France, and where an import notification was made for said products, steps were taken for re-shipment.

### (Reference) A Description of Key Terms in the Interim Report

Term	Description
Nitrite	Nitrite (Additive (coloring agent)) content
Acetochlor	Agricultural chemical (Anilide herbicide)
Acephate	Agricultural chemical (Organophosphorous insecticide)
Azorubin	Undesignated additive
Aflatoxin	Fungal toxin (Produced by the fungus Aspergillus, etc.)
Ametryn	Agricultural chemical (Triazine herbicide)
Alachlor	Agricultural chemical (Carboxyl amide herbicide)
Benzoic acid	Additive (Preservative)
Isoprothiolane	Agricultural chemical (Disinfectant)
Genetic modification	Technology such as fragmentation of bacterial genes, followed by arrangement of the gene sequences or introducing the arranged genes into other organism's genes
Ivermectin	Veterinary drug (Control of endoparasites and ectoparasites in cattle, pigs and horses)
Imidacloprid	Agricultural chemical (Chlorinicotinyl insecticide)
Indoxacarb	Agricultural chemical (Oxadiazon insecticide)
Ethoprophos	Agricultural chemical (Organophosphorus insecticide)
Endosulfan	Agricultural chemical (Organochlorine insecticide)
Enrofloxacin	Veterinary drug (New quinolone synthetic antibacterial agent)
Oxytetracycline	Veterinary drug (Tetracycline antibiotic)
Oxolinic acid	Veterinary drug (Synthetic antimicrobial (quinolone))
Orthophenyl phenol	Food additive (Fungicide)
Quinoline yellow	Undesignated additive
Clenbuterol	Veterinary drug (Uterine relaxant)
Chloramphenicol	Veterinary drug (Chloramphenicol antibiotic)
Chlortetracycline	Veterinary drug (Tetracycline antibiotic)
Chlorpyrifos	Agricultural chemical (Organophosphorus insecticide)
Chlorpropham	Agricultural chemical (Herbicide)
Diarrhetic shellfish toxin	Shellfish toxin (Toxin mainly caused by the accumulation of a toxin produced by harmful plankton in clams)
Cyclamic acid	Undesignated additive
Cyanide	Harmful or poisonous compound (Cyanide-related compounds (e.g., cyanogenic glycoside) found in vegetables such as some varieties of beans)
Diuron (DCMU)	Agricultural chemical (Herbicide)
Difenoconazole	Agricultural chemical (Triazole fungicide)
Cypermethrin	Agricultural chemical (Pyrethroid insecticide)
Dimethomorph	Agricultural chemical (Fungicide)

Term	Description	
Sulfachinoxalin	Veterinary drug (Synthetic antimicrobial)	
Sulphadimethoxine	Veterinary drug (Synthetic antimicrobial)	
Sorbic acid	Additive (Preservative)	
Thiamethoxam	Agricultural chemical (Neonicotinoid Insecticide)	
	Pathogenic microorganism (A bacterium living in seawater	
Wibnia manahaamalutiana	(estuaries, coastal areas, etc.) that commonly contaminates fish and	
Vibrio parahaemolyticus	shellfish, and causes abdominal pain, watery diarrhea, fever and	
	vomiting.)	
	Pathogenic microorganism (A bacterium that normally lives in the	
Enterohemorrhagic Escherichia	intestines of animals. It contaminates foods and drinking water by	
coli (E.coli)	way of feces and urine, and causes acute abdominal pain and bloody	
con (E.con)	diarrhea together with large amounts of fresh blood after early	
	cold-like symptoms.)	
Deoxynivalenol	Mycotoxin (produced by fusarenon-X of the fusarium genus)	
Tetracycline	Veterinary drug (Tetracycline antibiotic)	
Tebufenozide	Agricultural chemical (Benzoyl hydrazide Insecticide)	
Deltamethrin	Agricultural chemical (Pyrethroid Insecticide)	
Tralomethrin	Agricultural chemical (Pyrethroid Insecticide)	
Triazophos	Agricultural chemical (Organophosphorus Insecticide)	
Trifluralin	Agricultural chemical (Dinitroaniline herbicide)	
Natamycin	Additive (Used in food manufacture)	
Sulfur dioxide	Additive (Antioxidant)	
ATT. 6	Generic name for nitrofuran synthetic antimicrobial, a veterinary	
Nitrofurans	drug.	
D. C. I.	Mycotoxin (produced by fungi of the genus Penicillium, Aspergillus,	
Patulin	etc.)	
Patent blue V	Undesignated additive	
Parathion-methyl	Agricultural chemical (Insecticide)	
Bitertanol	Agricultural chemical (Disinfectant)	
Pirimiphos-methyl	Agricultural chemical (Organophosphorus Insecticide)	
Fenitrothion	Agricultural chemical (Insecticide)	
Fenobucarb	Agricultural chemical (Insecticide)	
Fenvalerate	Agricultural chemical (Pyrethroid Insecticide)	
Fenpropathrin	Agricultural chemical (Pyrethroid Insecticide)	
Buprofezin	Agricultural chemical (Disinfectant)	
E	Veterinary drug (Nitrofuran synthetic antimicrobial); generates AOZ	
Furazolidone	when metabolized	
Fluquinconazole	Agricultural chemical (Triazole fungicide)	
Flusilazole		
Tubliazuic	Agricultural chemical (Heterocyclic fungicide)	
Procymidone	Agricultural chemical (Heterocyclic fungicide)  Agricultural chemical (Disinfectant)	

Term	Description	
Bromopropylate	Agricultural chemical (Dust mite exterminator)	
Permethrin	Agricultural chemical (Insecticide)	
Polysorbate	Additive (Emulsifier)	
	Shellfish poison (mainly refers to toxins produced by a harmful	
Paralytic shellfish toxin	plankton accumulated in clams, toxic clams cause paralytic	
	poisoning)	
Malachite green	Veterinary drug (Triphenylmethane synthetic antibacterial agent)	
Methamidophos	Agricultural chemical (Organophosphorus Insecticide)	
	A chemical substance used as a primary raw material of melamine	
Melamine	resin.	
Lasalocid	Veterinary drug (Polyether antibiotic)	
	Pathogenic microorganism (A normal flora in the natural	
Listoria managytaganas	environment that contaminates milk products and processed meat	
Listeria monocytogenes	products, and causes influenza-like symptoms including tiredness	
	and fever.)	
2, 4-D	Agricultural chemical (Phenoxy acid herbicide)	
EPN	Agricultural chemical (Organophosphorus Insecticide)	
	Parts of a beef cow which accumulate the abnormal prion proteins	
SRM	thought to cause BSE (head (excluding tongue and cheek), spinal	
SKM	marrow, spine, and ileum (2 meters from the junction with the	
	appendix)).	
твно	Undesignated additive	
ү-ВНС	Agricultural chemical (Organochlorine Insecticide)	