

SECTION 5. RESULTS FROM THE 2000 FSIS IMPORT RESIDUE PLAN

This section reports the results of the 2000 FSIS Import Residue Plan. Descriptions of the Import Monitoring Plan and Import Surveillance Testing are found in Section 2 on page 7.

The Import Monitoring Plan is designed to detect, with a predetermined level of confidence, specific compounds in each of the designated products. The Import Monitoring Plan is not designed to provide an estimate of an overall import violation rates for all chemical residues. The data on violations reported should not be summed across any product line with the intent of arriving at a single value to represent the percent occurrence of violations over all the products tested. This mathematical operation will not produce a statistically valid estimate for the population, given the sample design in use. Care must be taken when making statistical inferences from these data.

The 2000 FSIS Import Monitoring Plan includes the testing of eight compound classes of drugs and pesticides, comprising approximately 50 residues. During 2000, the United States imported approximately 3,692,025,572 pounds of fresh and processed meat, poultry, and egg products from 31 countries. One violation was found out of 6,752 reported results.

The results from the Import Monitoring Plan are reported by country of origin. These results are presented below in Table 5.1, *Import Residue Monitoring Plan Results*, which includes the number of reported results obtained for each compound class tested by product class and the number of reported results broken down by data shows the number of non-detects, violations and non-violative positives.

Table 5.1
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations	
Argentina	Fresh Beef	Antibiotics	11	11	0	0	
		Avermectins	10	10	0	0	
		Chlorinated HC's	6	6	0	0	
		Chlorinated OP's	6	6	0	0	
		Phenylbutazone	6	6	0	0	
		Sulfonamides	11	11	0	0	
	Processed Beef	Chlorinated HC's	17	17	0	0	
		Chlorinated OP's	17	17	0	0	
		Phenylbutazone	17	17	0	0	
		Sulfonamides	41	41	0	0	
	Total		142	142	0	0	
	Australia	Fresh Beef	Antibiotics	184	184	0	0
			Avermectins	184	184	0	0
			Chloramphenicol	1	1	0	0
Chlorinated HC's			113	110	3	0	
Chlorinated OP's			113	113	0	0	
Flunixin			4	4	0	0	
Phenylbutazone			113	113	0	0	
Sulfonamides			196	196	0	0	
Fresh Goat		Antibiotics	11	11	0	0	
		Arsenic	3	3	0	0	
		Avermectins	11	11	0	0	
		Chlorinated HC's	2	2	0	0	
		Chlorinated OP's	2	2	0	0	
		Phenylbutazone	2	2	0	0	
		Sulfonamides	13	13	0	0	
Fresh Lamb		Antibiotics	27	27	0	0	
		Avermectins	23	23	0	0	
		Chlorinated HC's	51	50	1	0	
		Chlorinated OP's	51	51	0	0	
		Phenylbutazone	51	51	0	0	
		Sulfonamides	24	24	0	0	
Fresh Pork		Sulfonamides	1	1	0	0	
Fresh Sheep		Antibiotics	20	20	0	0	
		Avermectins	21	21	0	0	
		Chlorinated HC's	37	37	0	0	
		Chlorinated OP's	37	37	0	0	
		Phenylbutazone	37	37	0	0	
		Sulfonamides	18	18	0	0	

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations
Australia – cont.	Fresh Veal	Antibiotics	12	12	0	0
		Avermectins	4	4	0	0
		Chlorinated HC's	1	1	0	0
		Chlorinated OP's	1	1	0	0
		Phenylbutazone	1	1	0	0
		Sulfonamides	13	13	0	0
	Processed Beef	Chlorinated HC's	9	9	0	0
		Chlorinated OP's	9	9	0	0
		Phenylbutazone	9	9	0	0
		Sulfonamides	10	10	0	0
	Processed Sheep	Chlorinated HC's	1	1	0	0
		Chlorinated OP's	1	1	0	0
		Phenylbutazone	1	1	0	0
		Sulfonamides	9	9	0	0
	Total		1431	1427	4	0
Austria	Processed Pork	Arsenic	3	3	0	0
		Chlorinated HC's	5	5	0	0
		Chlorinated OP's	5	5	0	0
		Phenylbutazone	5	5	0	0
		Sulfonamides	3	2	0	1
	Total		21	20	0	1
Belgium	Processed Pork	Arsenic	6	6	0	0
		Chlorinated HC's	5	5	0	0
		Chlorinated OP's	5	5	0	0
		Phenylbutazone	5	5	0	0
		Sulfonamides	9	9	0	0
	Total		30	30	0	0
Brazil	Processed Beef	Chlorinated HC's	61	61	0	0
		Chlorinated OP's	61	61	0	0
		Sulfonamides	71	71	0	0
		Phenylbutazone	61	61	0	0
	Total		254	254	0	0

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations
Canada	Fresh Beef	Antibiotics	169	169	0	0
		Avermectins	164	164	0	0
		Chlorinated HC's	71	70	1	0
		Chlorinated OP's	71	71	0	0
		Flunixin	2	2	0	0
		Phenylbutazone	71	71	0	0
		Sulfonamides	164	164	0	0
	Fresh Chicken	Antibiotics	6	6	0	0
		Arsenic	7	7	0	0
		Chlorinated HC's	1	1	0	0
		Chlorinated OP's	1	1	0	0
		Fluoroquinolones	7	7	0	0
		Phenylbutazone	1	1	0	0
		Sulfonamides	9	9	0	0
	Fresh Duck	Antibiotics	3	3	0	0
		Chlorinated HC's	1	1	0	0
		Chlorinated OP's	1	1	0	0
		Phenylbutazone	1	1	0	0
		Sulfonamides	3	3	0	0
	Fresh Lamb	Antibiotics	4	4	0	0
		Avermectins	4	4	0	0
		Sulfonamides	4	4	0	0
	Fresh Pork	Antibiotics	142	140	2	0
		Arsenic	135	135	0	0
		Avermectins	141	141	0	0
		Carbadox	53	53	0	0
		Chlorinated HC's	169	161	8	0
		Chlorinated OP's	169	169	0	0
		Nitroimidazoles	24	24	0	0
		Phenylbutazone	169	169	0	0
		Ractopamine	15	15	0	0
		Sulfonamides	141	141	0	0
	Fresh Sheep	Antibiotics	1	1	0	0
	Fresh Turkey	Antibiotics	2	2	0	0
		Arsenic	3	3	0	0
		Sulfonamides	2	2	0	0

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations
Canada – cont.	Fresh Veal	Antibiotics	37	36	1	0
		Avermectins	20	20	0	0
		Chlorinated HC's	14	11	3	0
		Chlorinated OP's	14	14	0	0
		Phenylbutazone	14	14	0	0
		Sulfonamides	40	40	0	0
	Processed Beef	Chlorinated HC's	5	5	0	0
		Chlorinated OP's	5	5	0	0
		Phenylbutazone	5	5	0	0
		Sulfonamides	8	8	0	0
	Processed Chicken	Arsenic	25	25	0	0
		Chlorinated HC's	1	1	0	0
		Chlorinated OP's	1	1	0	0
		Phenylbutazone	1	1	0	0
		Sulfonamides	22	22	0	0
	Processed Duck	Chlorinated HC's	3	3	0	0
		Chlorinated OP's	3	3	0	0
		Phenylbutazone	3	3	0	0
		Sulfonamides	4	4	0	0
	Processed Pork	Arsenic	3	3	0	0
		Chlorinated HC's	6	6	0	0
		Chlorinated OP's	6	6	0	0
		Phenylbutazone	6	6	0	0
		Sulfonamides	8	8	0	0
	Processed Turkey	Arsenic	2	2	0	0
		Sulfonamides	1	1	0	0
	Processed Veal	Sulfonamides	2	2	0	0
	Egg Products	Arsenic	16	16	0	0
		Chlorinated HC's	13	13	0	0
		Chlorinated OP's	13	13	0	0
Sulfonamide		16	16	0	0	
Total		2248	2233	15	0	
Croatia	Processed Beef	Sulfonamides	3	3	0	0
	Processed Pork	Arsenic	2	2	0	0
		Sulfonamides	3	3	0	0
Total		8	8	0	0	

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations	
Costa Rica	Fresh Beef	Antibiotics	12	12	0	0	
		Avermectins	13	13	0	0	
		Chlorinated HC's	6	6	0	0	
		Chlorinated OP's	6	6	0	0	
		Flunixin	1	1	0	0	
		Phenylbutazone	6	6	0	0	
		Sulfonamides	13	13	0	0	
	Processed Beef	Sulfonamides	2	2	0	0	
	Total		59	59	0	0	
Denmark	Fresh Pork	Antibiotics	17	17	0	0	
		Arsenic	12	12	0	0	
		Avermectins	12	12	0	0	
		Carbadox	4	4	0	0	
		Chlorinated HC's	24	24	0	0	
		Chlorinated OP's	24	24	0	0	
		Nitroimidazoles	5	5	0	0	
		Phenylbutazone	24	24	0	0	
		Ractopamine	1	1	0	0	
		Sulfonamides	18	18	0	0	
		Processed Pork	Arsenic	2	2	0	0
	Chlorinated HC's		1	1	0	0	
	Chlorinated OP's		1	1	0	0	
	Phenylbutazone		1	1	0	0	
	Sulfonamides		9	9	0	0	
	Total		155	155	0	0	
	Finland	Fresh Pork	Chlorinated HC's	2	2	0	0
			Chlorinated OP's	2	2	0	0
			Phenylbutazone	2	2	0	0
Total			6	6	0	0	
France	Fresh Duck	Antibiotics	4	4	0	0	
		Chlorinated HC's	4	4	0	0	
		Chlorinated OP's	4	4	0	0	
		Phenylbutazone	4	4	0	0	
		Sulfonamides	3	3	0	0	

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations	
France – cont.	Processed Duck	Sulfonamides	1	1	0	0	
	Processed Goose	Chlorinated HC's	1	1	0	0	
		Chlorinated OP's	1	1	0	0	
		Sulfonamides	1	1	0	0	
		Phenylbutazone	1	1	0	0	
	Processed Pork	Arsenic	4	4	0	0	
		Chlorinated HC's	7	7	0	0	
		Chlorinated OP's	7	7	0	0	
		Phenylbutazone	7	7	0	0	
		Sulfonamides	15	15	0	0	
	Total		64	64	0	0	
	Germany	Processed Pork	Arsenic	9	9	0	0
			Chlorinated HC's	14	14	0	0
Chlorinated OP's			14	14	0	0	
Phenylbutazone			14	14	0	0	
Sulfonamides			19	19	0	0	
Total			70	70	0	0	
Honduras	Fresh Beef	Antibiotics	6	6	0	0	
		Avermectins	5	5	0	0	
		Chlorinated HC's	7	7	0	0	
		Chlorinated OP's	7	7	0	0	
		Phenylbutazone	7	7	0	0	
		Sulfonamides	5	5	0	0	
	Total		37	37	0	0	
Hong Kong	Processed Chicken	Arsenic	2	2	0	0	
		Sulfonamides	2	2	0	0	
	Processed Turkey	Arsenic	3	3	0	0	
		Sulfonamides	2	2	0	0	
	Total		9	9	0	0	

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations		
Hungary	Processed Pork	Arsenic	70	70	0	0		
		Chlorinated HC's	16	13	3	0		
		Chlorinated OP's	16	16	0	0		
		Phenylbutazone	16	16	0	0		
		Sulfonamides	126	126	0	0		
		Total		244	241	3	0	
Iceland	Fresh Lamb	Antibiotics	15	15	0	0		
		Avermectins	12	12	0	0		
		Chlorinated HC's	24	24	0	0		
		Chlorinated OP's	24	24	0	0		
		Phenylbutazone	24	24	0	0		
		Sulfonamides	11	11	0	0		
		Total		110	110	0	0	
Ireland	Fresh Pork	Antibiotics	1	1	0	0		
		Arsenic	1	1	0	0		
		Avermectins	3	3	0	0		
		Chlorinated HC's	3	3	0	0		
		Chlorinated OP's	3	3	0	0		
		Phenylbutazone	3	3	0	0		
		Processed Pork	Chlorinated HC's	2	2	0	0	
	Chlorinated OP's		2	2	0	0		
	Phenylbutazone		2	2	0	0		
	Sulfonamides		3	3	0	0		
	Total			23	23	0	0	
	Israel		Processed Chicken	Arsenic	16	16	0	0
				Chlorinated HC's	1	1	0	0
		Chlorinated OP's		1	1	0	0	
Phenylbutazone		1		1	0	0		
Sulfonamides		15		14	1	0		
Processed Turkey		Arsenic	13	13	0	0		
		Chlorinated HC's	3	3	0	0		
		Chlorinated OP's	3	3	0	0		
		Phenylbutazone	3	3	0	0		
		Sulfonamides	13	13	0	0		
Total			69	68	1	0		

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations	
Italy	Processed Beef	Sulfonamides	3	2	1	0	
	Processed Pork	Arsenic	5	5	0	0	
		Chlorinated HC's	11	11	0	0	
		Chlorinated OP's	10	10	0	0	
		Phenylbutazone	10	10	0	0	
		Sulfonamides	11	11	0	0	
	Total		50	49	1	0	
Japan	Fresh Beef	Antibiotics	3	3	0	0	
		Avermectins	2	2	0	0	
		Chlorinated HC's	2	2	0	0	
		Chlorinated OP's	2	2	0	0	
		Phenylbutazone	2	2	0	0	
		Sulfonamides	2	2	0	0	
	Processed Pork	Sulfonamides	1	1	0	0	
	Total		14	14	0	0	
	Mexico	Fresh Beef	Antibiotics	12	12	0	0
			Avermectins	14	14	0	0
			Chlorinated HC's	12	11	1	0
			Chlorinated OP's	12	12	0	0
			Phenylbutazone	12	12	0	0
Sulfonamides			14	14	0	0	
Fresh Lamb			Antibiotics	1	1	0	0
		Avermectins	1	1	0	0	
		Chlorinated HC's	1	1	0	0	
		Chlorinated OP's	1	1	0	0	
		Phenylbutazone	1	1	0	0	
		Sulfonamides	1	1	0	0	
Processed Beef		Chlorinated HC's	2	2	0	0	
		Chlorinated OP's	2	2	0	0	
		Phenylbutazone	2	2	0	0	
		Sulfonamides	2	2	0	0	
Processed Chicken		Arsenic	9	9	0	0	
		Chlorinated HC's	3	3	0	0	
		Chlorinated OP's	3	3	0	0	
		Phenylbutazone	3	3	0	0	
		Sulfonamides	8	8	0	0	
Total			116	115	1	0	

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations
Netherlands	Processed Beef	Sulfonamides	1	1	0	0
	Processed Pork	Arsenic	4	4	0	0
		Chlorinated HC's	2	2	0	0
		Chlorinated OP's	2	2	0	0
		Phenylbutazone	2	2	0	0
		Sulfonamides	11	11	0	0
	Total		22	22	0	0
New Zealand	Fresh Beef	Antibiotics	125	125	0	0
		Avermectins	112	112	0	0
		Flunixin	3	3	0	0
		Chlorinated HC's	42	32	10	0
		Chlorinated OP's	42	42	0	0
		Phenylbutazone	42	42	0	0
		Sulfonamides	119	119	0	0
	Fresh Goat	Antibiotics	3	3	0	0
		Arsenic	1	1	0	0
		Avermectins	2	2	0	0
		Chlorinated HC's	2	2	0	0
		Chlorinated OP's	2	2	0	0
		Phenylbutazone	2	2	0	0
		Sulfonamides	5	5	0	0
	Fresh Lamb	Antibiotics	18	18	0	0
		Avermectins	17	17	0	0
		Chlorinated HC's	43	26	17	0
		Chlorinated OP's	43	43	0	0
		Phenylbutazone	43	43	0	0
		Sulfonamides	18	18	0	0
	Fresh Sheep	Antibiotics	1	1	0	0
		Chlorinated HC's	1	0	1	0
		Chlorinated OP's	1	1	0	0
		Phenylbutazone	1	1	0	0
	Fresh Veal	Antibiotics	48	48	0	0
		Avermectins	25	25	0	0
		Chlorinated HC's	3	1	2	0
		Chlorinated OP's	3	3	0	0
		Phenylbutazone	3	3	0	0
		Sulfonamides	43	43	0	0

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations	
New Zealand – cont.	Processed Beef	Chlorinated HC's	8	8	0	0	
		Chlorinated OP's	8	8	0	0	
		Phenylbutazone	8	8	0	0	
		Sulfonamides	4	4	0	0	
	Processed Sheep	Chlorinated HC's	1	0	1	0	
		Chlorinated OP's	1	1	0	0	
		Phenylbutazone	1	1	0	0	
		Sulfonamides	9	9	0	0	
	Total		853	822	31	0	
	Nicaragua	Fresh Beef	Antibiotics	18	18	0	0
			Avermectins	18	18	0	0
			Chlorinated HC's	9	9	0	0
			Chlorinated OP's	9	9	0	0
Phenylbutazone			9	9	0	0	
Sulfonamides			13	13	0	0	
Total			76	76	0	0	
Poland	Fresh Beef	Sulfonamides	1	1	0	0	
	Processed Pork	Arsenic	4	4	0	0	
		Sulfonamides	14	14	0	0	
Total		19	19	0	0		
Spain	Processed Pork	Arsenic	9	9	0	0	
		Chlorinated HC's	16	13	3	0	
		Chlorinated OP's	16	16	0	0	
		Phenylbutazone	16	16	0	0	
		Sulfonamides	16	16	0	0	
Total		73	70	3	0		
Sweden	Fresh Pork	Antibiotics	4	4	0	0	
		Arsenic	4	4	0	0	
		Avermectins	2	2	0	0	
		Carbadox	1	1	0	0	
		Chlorinated HC's	4	4	0	0	
		Chlorinated OP's	4	4	0	0	
		Nitroimidazoles	1	1	0	0	
		Phenylbutazone	4	4	0	0	
		Sulfonamides	4	4	0	0	

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations
Sweden – cont.	Processed Pork	Sulfonamides	1	1	0	0
	Total		29	29	0	0
Switzerland	Fresh Pork	Chlorinated HC's	1	1	0	0
		Chlorinated OP's	1	1	0	0
		Phenylbutazone	1	1	0	0
	Processed Beef	Sulfonamides	7	6	1	0
	Processed Pork	Arsenic	2	2	0	0
		Chlorinated HC's	3	3	0	0
		Chlorinated OP's	3	3	0	0
		Phenylbutazone	3	3	0	0
		Sulfonamides	2	2	0	0
	Total		23	22	1	0
United Kingdom	Fresh Pork	Antibiotics	1	1	0	0
		Arsenic	2	2	0	0
		Avermectins	3	3	0	0
		Chlorinated HC's	2	2	0	0
		Chlorinated OP's	2	2	0	0
		Phenylbutazone	2	2	0	0
		Sulfonamides	1	1	0	0
		Processed Pork	Arsenic	3	3	0
	Sulfonamides		7	7	0	0
	Total		23	23	0	0
N. Ireland	Processed Pork	Chlorinated HC's	7	7	0	0
		Chlorinated OP's	7	7	0	0
		Phenylbutazone	7	7	0	0
	Total		21	21	0	0
Uruguay	Fresh Beef	Antibiotics	15	15	0	0
		Avermectins	17	17	0	0
		Chlorinated HC's	4	4	0	0
		Chlorinated OP's	4	4	0	0
		Phenylbutazone	4	4	0	0
		Sulfonamides	12	12	0	0

Table 5.1 - continued
Import Residue Monitoring Plan Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non- Detects	Non- Violative Positives	Violations
Uruguay – cont.	Fresh Lamb	Antibiotics	37	37	0	0
		Avermectins	38	38	0	0
		Chlorinated HC's	78	78	0	0
		Chlorinated OP's	78	78	0	0
		Phenylbutazone	78	78	0	0
		Sulfonamides	31	31	0	0
	Processed Beef	Chlorinated HC's	3	3	0	0
		Chlorinated OP's	3	3	0	0
		Sulfonamides	7	7	0	0
		Phenylbutazone	3	3	0	0
	Processed Pork	Arsenic	1	1	0	0
	Processed Sheep	Sulfonamides	8	8	0	0
	Total		421	421	0	0

The results from the Surveillance Testing Program are reported by country of origin. These results are presented in Table 5.2, *Surveillance Testing Results*, which includes the number of reported results obtained for each compound tested per product class and the data shows the number of non-detects, violations and non-violative positives.

Table 5.2
Surveillance Testing Results
2000 FSIS Import Residue Plan

Country	Product Class	Compound Class	Number Results Reported	Non-Detects	Non-Violative Positives	Violations
Argentina	Fresh Beef	Avermectins	1	1	0	0
	Total		1	1	0	0
Australia	Fresh Beef	Chlorinated HC's	1	1	0	0
		Antibiotics	3	3	0	0
		Chlorinated OP's	1	1	0	0
		Sulfonamides	2	2	0	0
		Phenylbutazone	1	1	0	0
		Avermectins	2	2	0	0
Total		10	10	0	0	
Austria	Processed Pork	Sulfonamides	13	13	0	0
	Total		13	13	0	0
New Zealand	Fresh Beef	Antibiotics	2	2	0	0
		Sulfonamides	3	3	0	0
		Avermectins	4	4	0	0
		Total	9	9	0	0
Switzerland	Processed Pork	Sulfonamides	8	5	1	2
	Total		8	5	1	2