

Section 5

The 2004 FSIS Import Monitoring Plan Veterinary Drugs

Phase I. Generating and Ranking the List of Candidate Compounds

List of Candidate Compounds

The candidate veterinary drugs of concern selected by members of the Surveillance Advisory Team (SAT) for the Import Monitoring Plan are the same as those listed in Section 4. Furthermore, in ranking drugs for inclusion in the Import Monitoring Plan, FSIS employed the ranking scores generated for the Domestic Monitoring Plan (see Section 4), because FSIS does not have sufficient historical data on drugs in imported products to predict their violation rates. However, if FSIS has reason to believe that a compound is being misused in a foreign country then it would add that compound/country pair to the Import Monitoring Plan.

Phase II. Selecting Drugs for Inclusion in the 2004 NRP

As stated in Section 4, from the list of ranked veterinary drugs, FSIS selected compounds and compound classes, based purely on their relative public health concern, which should be included in the 2004 NRP. FSIS and FDA decided that those compounds and compound classes ranked 11th or higher (out of 31 compounds) represented a potential public health concern sufficient to justify their inclusion in the 2004 NRP.

Once the high-priority compounds and compound classes had been identified, FSIS applied other practical considerations to determine the compounds FSIS should sample. The principal consideration is the availability of laboratory resources, especially the availability of appropriate analytical methods within the FSIS laboratories. Where the laboratory resources are limited, FSIS decided that more resources should be allocated to test domestic products since imported products have been inspected previously by the importing country. Based on these considerations, the following compounds are included in the 2004 FSIS Import Monitoring Plan.

Antibiotics:

- Those antibiotics quantitated by the FSIS Bioassay Multiresidue Method (MRM) and associated follow-up methodologies as described in chapter 4 [tetracycline, oxytetracycline, chlortetracycline, beta-lactams (penicillins and cephalosporins; not differentiated within this category), gentamicin, streptomycin/spectinomycin (not differentiated), erythromycin, tilmicosin, tylosin, neomycin, flavomycin, bacitracin, hygromycin, novobiocin, lincomycin*, pirlimycin*, clindamycin*, spiramycin*, oleandomycin*] *identification by mass spectrometry; not quantitated

Other Veterinary Drugs:

- Arsenicals (detected as elemental arsenic (Single compound method))
- Avermectins in FSIS MRM (doramectin, ivermectin and moxidectin)
- Phenylbutazone in FSIS MRM (detected in the CHC3 method)

- Sulfonamides (sulfapyridine, sulfadiazine, sulfathiazole, sulfamerazine, sulfamethazine, sulfachloropyridazine, sulfadoxine, sulfamethoxypyridazine, sulfaquinoxaline, sulfadimethoxine, sulfisoxazole, sulfacetamide, sulfamethoxazole, sulfamethizole, sulfanilamide, sulfaguanidine, sulfabromomethazine, sulfasalazine, sulfaethoxypyridazine, sulfaphenazole, and sulfatroxazole)

AMDUCA Drugs

- Chloramphenicol (Single compound method)

The 2004, FSIS Import Monitoring Plan employ 6 methodologies and analyzes over 50 veterinary drugs. Two of these are single-compound methodologies, and other four are MRMs (phenylbutazone is detected by the FSIS MRM for chlorinated hydrocarbon and chlorinated organophosphate compounds).

Phase III. Identifying the Compound/Product Class Pairs

SAT participants from the FDA identified, for each of the drugs and drug classes to be included in the 2004 NRP, product classes in which they had a concern. The results are presented in Table 5.1, *Product Classes Considered for Each Drug/Drug Class*. Compound/product class pairs included in the 2004 NRP are designated by a "●". Those compound/product class pairs that are of potential public health concern, but that are not included in the 2004 NRP because of laboratory resource constraints, are marked with a "○". Since all product classes will be sampled by the chlorinated hydrocarbon/chlorinated organophosphate (CHC/COP) method (see Section 7), and this method also detects phenylbutazone, the latter, by default, will be sampled in all product classes. However, phenylbutazone is not of regulatory concern in all product classes. Those product classes in which phenylbutazone will be sampled, but where it is not of regulatory concern, are designated by a "●".

Phase IV. Allocation of Sampling Resources

Allocation among Different Product Classes

Egg Products

The samples for residue analysis for imported egg products are selected in a different manner than the other product classes. As stated in Section 2, in order to establish a history of compliance with the U.S. requirements for each category of egg product, the first ten shipments from individual foreign establishments are subjected to 100 % reinspection. If the egg product is in compliance, the rate of inspection is reduced to a random selection of one reinspection out of eight product lots from each foreign establishment. This reinspection rate will continue as long as the product is in compliance.

Animal Product Classes

Table 5.2, *Estimated Annual Amount (in lbs.) of Product Imported*, lists the estimated amount of all the product classes imported into U.S. and includes the percentage of each of the product classes. The data for the product classes is obtained from Automated Import Information System. The percent of each product class imported annually is calculated using the following formula:

$$\% \text{ Product Class Imported } (P_C) = \frac{\text{Amount Product Class Imported}}{\text{Total Product Imported}} \times 100 \quad (5.1)$$

The relative sampling priority is obtained by multiplying the percent product class (P_C) by the drug scores obtained in Phase I, using the following equation

$$\text{Relative Sampling Priority} = (P_C) \times \text{Drug Score} \quad (5.2)$$

Based on the scores, one of the following sampling options is chosen: (1) very high regulatory concern (460 analyses/year); (2) high regulatory concern (300 analyses/year); (3) moderate regulatory concern (230 samples/year); or (4) low regulatory concern (90 samples/year). This data presented in Table 5.5, *Number of Drug Samples/Product Class*, in the column labeled “Number of Samples.”

FSIS in its Import Monitoring Plan will not test (1) processed products from eligible foreign countries that also ship fresh products to the United States; and (2) processed products from countries that source all their raw materials from other foreign countries that are eligible to ship fresh product and are actively exporting to the United States. **Processed chicken products from Hong Kong and Mexico, processed turkey products from Hong Kong, and processed pork products from Belgium will not be sampled since the raw materials used are from countries that are eligible to ship raw products to the U.S.**

If a product class represents less than one percent (by weight) of total combined U.S. imports of meat, poultry and egg products, then the total number of samples analyzed for any compound or compound class is eight times the number of countries from which that product is imported. For example, if fresh goat is imported from only three countries and the amount imported is 0.24 % relative to the total U.S. import, twenty-four samples (3 countries X 8 samples) of fresh goat would be taken for each analysis, eight from each country.

The adjusted number of samples is listed in Table 5.5, in the column labeled “Adj No of Samples.” The final number of samples for a compound/product class is obtained after the allocation of samples among different countries is completed. The final number of samples is listed in Table 5.5 in the column labeled “Final Number of Samples.” The numbers in the column labeled “Adjusted Number of Samples” and “Final Number of Samples” may vary slightly because of the rounding upwards or downwards of the samples.

Allocation of Samples among Different Countries

The total number of samples chosen for each compound/product class pair is subdivided among the different countries. The number of samples for each country is based on the relative amount of total product class imported: less than one percent and greater than one percent.

Allocation of Samples in Product Classes Whose Total Volume Imported is less than 1%

As stated above, if the amount of an import product class is less than 1%, eight samples per compound/compound class are taken from each country. The relative amounts of beef/pork processed, veal fresh and processed, eggs processed, chicken fresh, goat fresh, turkey processed, mutton/lamb processed, other fowl processed and fowl fresh are less than 1%. In addition, as stated above if a country is exporting either fresh and processed products or sources all their raw materials from eligible sources then no residue samples are scheduled for processed products from that country. The unadjusted numbers of samples are listed in the columns labeled, “Unadjusted Number of Samples” in Tables 5.6 to 5.11 and 5.16b. The adjusted numbers of samples per country/per product class is listed in the column labeled, “Final Number of Samples” in Tables 5.6 to 5.11 and 5.16b.

Allocation of Samples in Product Classes Whose Total Volume Imported is Greater Than 1%

For major product classes, the number of samples is allocated to each country depending upon the relative amount of product imported from that country. Table 5.3, *Estimated Annual Amount (in lbs.) of Product Imported/Country*, lists the amount of product imported from each country. The percent of a product class imported from a country is calculated as follows and is in Table 5.4, *Relative Annual Amount of Product Imported/Country*.

$$\text{Percent Product Class Imported per Country (P}_{C/C}\text{)} = \frac{\text{Amount of Product Class from Country}}{\text{Total Amount of Product Class}} \times 100 \quad (5.3)$$

Based upon the relative amount of product class imported per country, the number of samples that should be taken at the port-of-entry was calculated using the following formula:

$$\text{Unadjusted Number of Samples per Country (U}_{C/S}\text{)} = \text{Total Number of Samples} \times \frac{\text{P}_{C/C}}{100} \quad (5.4)$$

This is indicated in the column labeled “Unadjusted Number of Samples (U_{C/S}),” in Tables 5.12 to 5.19.

After determining the number of samples required from each country, each country with less than eight samples is assigned a minimum of eight samples. This is indicated in the column labeled “Adjustment #1” in Tables 5.12 to 5.19 (except 5.16b). The results of this adjustment are in the column labeled “Initial Adj #.” If the total number of samples for a compound/product class resulted in more than the total number of samples allocated to that compound/product class pair, then a second adjustment had to be made, so that the total number of samples would be within an allocated number. This adjustment is made only to those countries from which greater than eight samples are to be taken. This adjustment is accomplished using the following equations:

$$\text{Number of Samples after Adjustment \#2} = (\text{U}_{C/S}) - \frac{(\text{N} \times \text{P}_{C/C})}{(\text{P}_{T/C})} \quad (5.5)$$

Where:

- $\text{N} = (\text{N}_1) - (\text{N}_T)$
- N_1 = Total Number of Samples after Adjustment #1
- N_T = Total Number of Samples Allocated
- $\text{P}_{T/C}$ = Total Percent of Product Class from the Countries That Had Greater Than Eight Samples
- $\text{P}_{C/C}$ = Percent Product Class Imported Per Country
- $\text{U}_{C/S}$ = Unadjusted Number of Samples

As mentioned above, if a country is exporting both fresh and processed products or sources all their raw materials from eligible sources then no residue samples will be processed from that country. The final numbers of products sampled are indicated in Tables 5.12 to 5.19 (except 5.16b) in the column labeled “Final Adj.#.”

Notes:

The candidate veterinary drugs of concern selected by members of the Surveillance Advisory Team (SAT) for the Import Monitoring Plan are the same as those listed in Section 4.

Phenylbutazone is detected by the FSIS CHC/COP method. Therefore, all product classes that are sampled for CHC/COP are sampled for phenylbutazone. The number of samples/product class/country is discussed in Section 7.

Due to limited resources, chloramphenicol is scheduled for beef fresh (90 samples), veal fresh (24 samples). The total number of scheduled samples for chloramphenicol is 114 for the 2004 import monitoring program.

**Table 5.1
Product Classes Considered for Each Drug/Drug Class
2004 FSIS NRP, Import Monitoring Plan**

DRUG→	Antibiotics	Arsenicals	Avermectin	Chloramphenicol	Sulfonamides	Phenylbutazone
Beef, fresh	●		●	●	●	●
Beef, processed			○		●	●
Pork, fresh	●	●	●		●	●
Pork, processed		●	○		●	●
Beef/Pork, processed		●	○		●	●
Veal, fresh	●		●	●	●	●
Veal, processed			○		●	●
Lamb/ Mutton, fresh	●		●		●	●
Lamb/ Mutton, processed	●		●		●	●
Goat, fresh	●	●			●	●
Chicken, fresh	●	●			●	●
Chicken, processed		●			●	●
Turkey processed		●			●	●
Other fowl fresh						
Other fowl processed						
Varied combinations processed					●	●
Eggs, processed	○	●			●	

Key

- = Compound/product class sampled in the 2004 FSIS Import Monitoring Plan
- = Compound/product class pair of regulatory concern but not included in the plan because of lab resources
- ◐ = Since all product classes will be sampled by the CHC/COP method (see Section 7), and since this method also detects phenylbutazone, the latter, by default, will be sampled in all product classes. However, phenylbutazone is not of regulatory concern in all product classes. Those product classes in which phenylbutazone will be sampled, but where it is NOT of regulatory concern.

Table 5.2
Estimated Annual Amount (in lbs.) of Product Imported
2004 FSIS NRP, Import Monitoring Plan

PRODUCT CLASS	PRODUCT IMPORTED IN POUNDS	% PRODUCT IMPORTED
Beef, fresh	2058212267	54.43
Beef, processed	759255955	20.08
Pork, fresh	459801822	12.16
Pork, processed	207675743	5.49
Beef/Pork, processed	32503443	0.86
Veal, fresh	14328594	0.38
Veal, processed	2819906	0.07
Lamb/Mutton, fresh	86718991	2.29
Lamb/Mutton, processed	170710	0.005
Goat, fresh	9152413	0.24
Chicken, fresh	11513207	0.30
Chicken, processed	48139413	1.27
Turkey, processed	4823340	0.13
Other Fowl, fresh	62269	0.002
Other Fowl, processed	470221	0.01
Varied combination, processed	72264199	1.91
Eggs, processed	13250935	0.35
Total/Country	3781163428	100

Table 5.3
Estimated Annual Amount (in lbs.) of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

PRODUCT CLASS	Argentina	Australia	Austria	Belgium	Brazil	Canada
Beef, Fresh		520001127				1020189220
Beef, Processed	45303505	370954087			113688218	218571658
Pork, Fresh						366524518
Pork, Processed		44	59251	6511694		128717538
Beef/Pork, Processed		12544				32353551
Veal, Fresh		1121129				7504747
Veal, Processed		2789284				30622
Lamb/Mutton, Fresh		57529300				671810
Lamb/Mutton, Processed		83062				52676
Goat, Fresh		8385882				
Chicken, Fresh						11513207
Chicken, Processed						46270365
Turkey, Processed						3554264
Other Fowl, Fresh						
Other Fowl, Processed						470221
Varied combination, Processed		6895402				58049808
Eggs, Processed						13250935
Total/Country	45303505	967771861	59251	6511694	113688218	1907725140

Table 5.3 - Continued
Estimated Annual Amount (in lbs.) of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

PRODUCT CLASS	Costa Rica	Croatia	Czechoslovakia	Denmark	Finland	France
Beef, Fresh	18293917					
Beef, Processed						71571
Pork, Fresh				85527453	2113564	38809
Pork, Processed		233039	6572	32460383		490261
Beef/Pork, Processed						
Veal, Fresh						
Veal, Processed						
Lamb/Mutton, Fresh						
Lamb/Mutton, Processed						
Goat, Fresh						
Chicken, Fresh						
Chicken, Processed						95270
Turkey, Processed						5929
Other Fowl, Fresh						
Other Fowl, Processed						
Varied combination, Processed						64145
Eggs, Processed						
Total/Country	18293917	233039	6572	117987836	2113564	765985

Table 5.3 - Continued
Estimated Annual Amount (in lbs.) of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Germany	Honduras	Hungary	Iceland	Ireland	Israel
Beef, Fresh		259200				
Beef, Processed						
Pork, Fresh					5505266	
Pork, Processed	875269		4103573		636518	
Beef/Pork, Processed						
Veal, Fresh						
Veal, Processed						
Lamb/Mutton, Fresh				89266		
Lamb/Mutton, Processed						
Goat, Fresh						
Chicken, Fresh						
Chicken, Processed						970816
Turkey, Processed						608832
Other Fowl, Fresh						
Other Fowl, Processed						
Varied combination, Processed						
Eggs, Processed						
Total/Country	875269	259200	4103573	89266	6141784	1579648

Table 5.3 - Continued
Estimated Annual Amount (in lbs.) of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Italy	Mexico	Netherlands	New Zealand	Nicaragua	N. Ireland
Beef, Fresh		5079878		461576911	31599083	1212931
Beef, Processed		568533		2887173		
Pork, Fresh		82012				
Pork, Processed	5121000	1445642	9880791			
Beef/Pork, Processed		137348				
Veal, Fresh				5702718		
Veal, Processed						
Lamb/Mutton, Fresh				28428615		
Lamb/Mutton, Processed				34972		
Goat, Fresh				766531		
Chicken, Fresh						
Chicken, Processed		802962				
Turkey, Processed		654315				
Other Fowl, Fresh				62269		
Other Fowl, Processed						
Varied combination, Processed		4259874		2280733		
Eggs, Processed						
Total/Country	5121000	13030564	9880791	501739922	31599083	1212931

Table 5.3 - Continued
Estimated Annual Amount (in lbs.) of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Poland	Spain	United Kingdom	Uruguay
Beef, Fresh				
Beef, Processed				7211210
Pork, Fresh			10200	
Pork, Processed	16151460	982708		
Beef/Pork, Processed				
Veal, Fresh				
Veal, Processed				
Lamb/Mutton, Fresh				
Lamb/Mutton, Processed				
Goat, Fresh				
Chicken, Fresh				
Chicken, Processed				
Turkey, Processed				
Other Fowl, Fresh				
Other Fowl, Processed				
Varied combination, Processed				714237
Eggs, Processed				
Total/Country	16151460	982708	10200	7925447

Table 5.4
Relative Annual Amount of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Argentina	Australia	Austria	Belgium	Brazil	Canada
Beef, Fresh	-	25.26	-	-	-	49.57
Beef, Processed	5.97	48.86	-	-	14.97	28.79
Pork, Fresh	-	-	-	-	-	79.71
Pork, Processed	-	0.00002	0.03	3.14	-	61.98
Beef/Pork, Processed	-	0.04	-	-	-	99.54
Veal, Fresh	-	7.82	-	-	-	52.38
Veal, Processed	-	98.91	-	-	-	1.09
Lamb/Mutton, Fresh	-	66.34	-	-	-	0.77
Lamb/Mutton, Processed	-	48.66	-	-	-	30.86
Goat, Fresh	-	91.62	-	-	-	-
Chicken, Fresh	-	-	-	-	-	100.00
Chicken, Processed	-	-	-	-	-	96.12
Turkey, Processed	-	-	-	-	-	73.69
Other Fowl, Fresh	-	-	-	-	-	-
Other Fowl, Processed	-	-	-	-	-	100.00
Varied combination, Processed	-	9.54	-	-	-	80.33
Eggs, Processed	-	-	-	-	-	100.00

Table 5.4 - Continued
Relative Annual Amount of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Costa Rica	Croatia	Czechoslovakia	Denmark	Finland	France
Beef, Fresh	0.89	-	-	-	-	-
Beef, Processed	-	-	-	-	-	0.01
Pork, Fresh	-	-	-	18.60	0.46	0.01
Pork, Processed	-	0.11	0.003	15.63	-	0.24
Beef/Pork, Processed	-	-	-	-	-	-
Veal, Fresh	-	-	-	-	-	-
Veal, Processed	-	-	-	-	-	-
Lamb/Mutton, Fresh	-	-	-	-	-	-
Lamb/Mutton, Processed	-	-	-	-	-	-
Goat, Fresh	-	-	-	-	-	-
Chicken, Fresh	-	-	-	-	-	-
Chicken, Processed	-	-	-	-	-	0.20
Turkey, Processed	-	-	-	-	-	0.12
Other Fowl, Fresh	-	-	-	-	-	-
Other Fowl, Processed	-	-	-	-	-	-
Varied combination, Processed	-	-	-	-	-	0.09
Eggs, Processed	-	-	-	-	-	-

Table 5.4 - Continued
Relative Annual Amount of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Germany	Honduras	Hungary	Iceland	Ireland	Israel
Beef, Fresh	-	0.01	-	-	-	-
Beef, Processed	-	-	-	-	-	-
Pork, Fresh	-	-	-	-	1.20	-
Pork, Processed	0.42	-	1.98	-	0.31	-
Beef/Pork, Processed	-	-	-	-	-	-
Veal, Fresh	-	-	-	-	-	-
Veal, Processed	-	-	-	-	-	-
Lamb/Mutton, Fresh	-	-	-	0.10	-	-
Lamb/Mutton, Processed	-	-	-	-	-	-
Goat, Fresh	-	-	-	-	-	-
Chicken, Fresh	-	-	-	-	-	-
Chicken, Processed	-	-	-	-	-	2.02
Turkey, Processed	-	-	-	-	-	12.62
Other Fowl, Fresh	-	-	-	-	-	-
Other Fowl, Processed	-	-	-	-	-	-
Varied combination, Processed	-	-	-	-	-	-
Eggs, Processed	-	-	-	-	-	-

Table 5.4 - Continued
Relative Annual Amount of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Italy	Mexico	Netherlands	New Zealand	Nicaragua	N. Ireland
Beef, Fresh	-	0.25	-	22.43	1.54	0.06
Beef, Processed	-	0.07	-	0.38	-	-
Pork, Fresh	-	0.02	-	-	-	-
Pork, Processed	2.47	0.70	4.76	-	-	-
Beef/Pork, Processed	-	0.42	-	-	-	-
Veal, Fresh	-	-	-	39.80	-	-
Veal, Processed	-	-	-	-	-	-
Lamb/Mutton, Fresh	-	-	-	32.78	-	-
Lamb/Mutton, Processed	-	-	-	20.49	-	-
Goat, Fresh	-	-	-	8.38	-	-
Chicken, Fresh	-	-	-	-	-	-
Chicken, Processed	-	1.67	-	-	-	-
Turkey, Processed	-	13.57	-	-	-	-
Other Fowl, Fresh	-	-	-	100.00	-	-
Other Fowl, Processed	-	-	-	-	-	-
Varied combination, Processed	-	5.89	-	3.16	-	-
Eggs, Processed	-	-	-	-	-	-

Table 5.4 - Continued
Relative Annual Amount of Product Imported/Country
2004 FSIS NRP, Import Monitoring Plan

Product Class	Poland	Spain	United Kingdom	Uruguay
Beef, Fresh	-	-	-	-
Beef, Processed	-	-	-	0.95
Pork, Fresh	-	-	0.002	-
Pork, Processed	7.78	0.47	-	-
Beef/Pork, Processed	-	-	-	-
Veal, Fresh	-	-	-	-
Veal, Processed	-	-	-	-
Lamb/Mutton, Fresh	-	-	-	-
Lamb/Mutton, Processed	-	-	-	-
Goat, Fresh	-	-	-	-
Chicken, Fresh	-	-	-	-
Chicken, Processed	-	-	-	-
Turkey, Processed	-	-	-	-
Other Fowl, Fresh	-	-	-	-
Other Fowl, Processed	-	-	-	-
Varied combination, Processed	-	-	-	0.99
Eggs Processed				

Table 5.5
Number of Drug Samples/Product Class
2004 FSIS NRP, Import Monitoring Plan

No of Countries	Product Class	% Product Imported	Drug	Drug Score	Relative Sampling Priority	Number of Samples	Adjusted Number of Samples	Final Number of Samples
8	Beef, fresh	54.43	Antibiotics	15	816	460	300	301
8	Beef, fresh	54.43	Sulfonamides	12	653	460	300	301
8	Beef, fresh	54.43	Avermectins	11	599	460	460	461
8	Beef, processed	20.08	Sulfonamides	12	241	300	230	61
7	Pork, fresh	12.16	Antibiotics	15	182	300	300	308
7	Pork, fresh	12.16	Sulfonamides	12	146	300	300	308
7	Pork, fresh	12.16	Avermectins	11	134	300	300	308
7	Pork, fresh	12.16	Arsenicals	7	85	230	230	238
16	Pork, processed	5.49	Sulfonamides	12	66	90	72	80
16	Pork, processed	5.49	Arsenicals	7	38	90	72	80
4	Lamb/Mutton, fresh	2.29	Antibiotics	15	34	90	90	90
4	Lamb/Mutton, fresh	2.29	Sulfonamides	12	28	90	90	90
4	Lamb/Mutton, fresh	2.29	Avermectins	11	25	90	90	90
6	Varied combination, processed	1.91	Sulfonamides	12	23	90	90	48
4	Chicken, processed	1.27	Sulfonamides	12	15	90	90	16
3	Beef/Pork, processed	0.86	Sulfonamides	12	10	90	90	8
4	Chicken, processed	1.27	Arsenicals	7	9	90	90	16
3	Beef/Pork, processed	0.86	Arsenicals	7	6	90	24	8
3	Veal, fresh	0.38	Antibiotics	15	6	90	24	24
1	Chicken, fresh	0.30	Antibiotics	15	5	90	8	8
3	Veal, fresh	0.38	Sulfonamides	12	5	90	24	24

Table 5.5 - Continued
Number of Drug Samples/Product Class
2004 FSIS NRP, Import Monitoring Plan

No of Countries	Product Class	% Product Imported	Drug	Drug Score	Relative Sampling Priority	Number of Samples	Adjusted Number of Samples	Final Number of Samples
3	Veal, fresh	0.38	Avermectins	11	4	90	24	24
1	Chicken, fresh	0.30	Sulfonamides	12	4	90	8	8
2	Goat, fresh	0.24	Antibiotics	15	4	90	16	16
2	Goat, fresh	0.24	Sulfonamides	12	3	90	16	16
1	Chicken, fresh	0.30	Arsenicals	7	2	90	8	8
2	Goat, fresh	0.24	Arsenicals	7	2	90	16	16
4	Turkey, processed	0.13	Sulfonamides	12	2	90	32	32
2	Veal, processed	0.07	Sulfonamides	12	1	90	0	0
4	Turkey, processed	0.13	Arsenicals	7	1	90	32	32
1	Other Fowl, processed	0.01	Sulfonamides	12	0.10	90	0	0
1	Other Fowl, processed	0.01	Arsenicals	7	0.10	90	0	0
3	Lamb/Mutton, processed	0.005	Sulfonamides	12	0.10	90	24	0
1	Other Fowl, fresh	0.002	Antibiotics	15	0.02	90	0	0
1	Other Fowl, fresh	0.002	Sulfonamides	12	0.02	90	0	0
1	Other Fowl, fresh	0.002	Arsenicals	7	0.01	90	0	0
8	Beef, fresh		Chloramphenicol				90	90
3	Veal, fresh		Chloramphenicol				24	24
	Total					5330	3564	3134

Note: Phenylbutazone is detected by the CHC/COP method. Hence the "No. of Samples/Product Class" for phenylbutazone is the same as that for the CHCs/COPs. [See Section 7.]

Table 5.6
Number of Samples/Product Class - Goat, Fresh
2004 FSIS NRP, Import Monitoring Plan

GOAT, FRESH/ ANTIBIOTICS	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	91.62	8	8
New Zealand	8.38	8	8
Total		16	16
GOAT, FRESH/ ARSENICALS			
Australia	91.62	8	8
New Zealand	8.38	8	8
Total		16	16
GOAT, FRESH/ SULFONAMIDES			
Australia	91.62	8	8
New Zealand	8.38	8	8
Total		16	16

Table 5.7
Number of Samples/Product Class – Mutton/Lamb Processed
2004 FSIS NRP, Import Monitoring Plan

MUTTON/LAMB PROCESSED/ ANTIBIOTICS	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	48.66	8	0 ¹
Canada	30.86	8	0 ¹
New Zealand	20.49	8	0 ¹
Total		24	0
MUTTON/LAMB PROCESSED/ AVERMECTINS			
Australia	48.66	8	0 ¹
Canada	30.86	8	0 ¹
New Zealand	20.49	8	0 ¹
Total		24	0
MUTTON/LAMB PROCESSED/ SULFONAMIDES			
Australia	48.66	8	0 ¹
Canada	30.86	8	0 ¹
New Zealand	20.49	8	0 ¹
Total		24	0

Table 5.8
Number of Samples/Product Class – Varied Combination, Processed
2004 FSIS Import Monitoring Plan

VARIED COMBINATION, PROCESSED, SULFONAMIDES	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	9.54	8	8
Canada	80.33	8	8
France	0.09	8	8
Mexico	5.89	8	8
New Zealand	3.16	8	8
Uruguay	0.99	8	8
Total		48	48

Table 5.9
Number of Samples/Product Class - Chicken, Fresh
2004 FSIS NRP, Import Monitoring Plan

CHICKEN, FRESH/ANTIBIOTICS	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	100	8	8
Total		8	8
CHICKEN, FRESH/ARSENICALS			
Canada	100	8	8
Total		8	8
CHICKEN, FRESH/SULFONAMIDES			
Canada	100	8	8
Total		8	8

Table 5.10
Number of Samples/Product Class - Turkey, Processed
2004 FSIS Import Monitoring Plan

TURKEY, PROCESSED/ ARSENICALS	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Costa Rica	73.69	8	8
Germany	0.12	8	8
Italy	12.62	8	8
Netherlands	14.00	8	8
Total		32	32
TURKEY, PROCESSED/SULFONAMIDES			
Costa Rica	73.69	8	8
Germany	0.12	8	8
Italy	12.62	8	8
Netherlands	14.00	8	8
Total		32	32

Table 5.11
Number of Samples/Product Class - Veal, Processed
2004 FSIS NRP, Import Monitoring Plan

VEAL, PROCESSED/ SULFONAMIDES	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	98.91	8	0 ¹
Canada	1.09	8	0 ¹
Total		16	0

Table 5.12
Number of Samples/Product Class - Beef/Pork, Processed
2004 FSIS NRP, Import Monitoring Plan

BEEF/PORK, PROCESSED/ ARSENICALS	PERCENT PRODUCT (P_{C/C})	UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) = 24*P_{C/C}/100)	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ. NUMBER	ADJUST. # 2	FINAL NUMBER OF SAMPLES
Australia	0.04	0	8	8	8	8
Canada	99.54	24		24	8	0 ¹
Mexico	0.42	0	8	8	8	0 ¹
Total		24		40	24	8
BEEF/PORK, PROCESSED/ SULFONAMIDES						
Australia	0.04	0	8	8	8	8
Canada	99.54	24		24	8	0 ¹
Mexico	0.42	0	8	8	8	0 ¹
Total		24	32	40	24	8

Table 5.13
Number of Samples/Product Class - Beef, Processed
2004 FSIS NRP, Import Monitoring Plan

BEEF, PROCESSED/ SULFONAMIDES	PERCENT PRODUCT (P_{C/C})	UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) = 230*P_{C/C}/100)	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ. NUMBER	ADJUST. # 2	FINAL NUMBER OF SAMPLES
Argentina	5.97	18	0	14	15	15
Australia	48.86	147	0	114	126	0 ¹
Brazil	14.97	45	0	30	38	38
Canada	28.79	86	0	67	74	0 ¹
France	0.01	0	8	8	0	8
Mexico	0.07	0	8	8	0	0 ¹
New Zealand	0.38	1	8	8	1	0 ¹
Uruguay	0.95	3	8	8	2	0 ¹
Total		282	32	257	257	61

Table 5.14
Number of Samples/Product Class - Chicken, Processed
2004 FSIS NRP, Import Monitoring Plan

CHICKEN, PROCESSED/ ARSENICALS	PERCENT PRODUCT (P_{CC})	UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 90*(P_{CC})/100	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Canada	96.12	86		0	0	0 ¹
France	0.20	0	8	8	8	8
Israel	2.02	1		8	8	8
Mexico	1.67	2		8	8	0 ¹
Total		90		24	24	16
CHICKEN, PROCESSED/ SULFONAMIDES		UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 90*(P_{CC})/100				
Canada	96.12	86		0	0	0 ¹
France	0.20	0.2	8	8	8	8
Israel	2.02	1		8	8	8
Mexico	1.67	2		8	8	0 ¹
Total		90		24	24	16

Table 5.15
Number of Samples/Product Class - Beef, Fresh
2004 FSIS NRP, Import Monitoring Plan

BEEF, FRESH/ ANTIBIOTICS	PERCENT PRODUCT (P_{CC})	UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 300*(P_{CC})/100	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ NUMBER	ADJUST. # 2	FINAL ADJ #
Australia	25.26	76		76	68	68
Canada	49.57	149		149	133	133
Costa Rica	0.89	2	8	8	8	8
Honduras	0.01	0	8	8	8	8
Mexico	0.25	1	8	8	8	8
New Zealand	22.43	67		67	60	60
Nicaragua	1.54	5	8	8	8	8
Uruguay	0.06	0	8	8	8	8
Total		300	40	332	301	301

Table 5.15 - Continued
Number of Samples/Product Class - Beef, Fresh
2004 FSIS NRP, Import Monitoring Plan

BEEF, FRESH/ AVERMECTINS	PERCENT PRODUCT (P_{C/C})	UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) = 460*((P_{C/C})/100)	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ NUMBER	ADJUST. # 2	FINAL ADJ #
Australia	25.26	116		116	109	109
Canada	49.57	228		228	215	215
Costa Rica	0.89	3	8	8		8
Honduras	0.01	0	8	8		8
Mexico	0.25	1	8	8		8
New Zealand	22.43	103		103	97	97
Nicaragua	1.54	7	8	8		8
Uruguay	0.06	0	8	8		8
Total		460	40	487		461
BEEF, FRESH/ SULFONAMIDES		UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) = 300*((P_{C/C})/100)				
Australia	25.26	76		76	68	68
Canada	49.57	149		149	133	133
Costa Rica	0.89	2	8	8	8	8
Honduras	0.01	0	8	8	8	8
Mexico	0.25	1	8	8	8	8
New Zealand	22.43	67		67	60	60
Nicaragua	1.54	5	8	8	8	8
Uruguay	0.06	0	8	8	8	8
Total		300	40	332	301	301
BEEF, FRESH/ CHLORAM- PHENICOL		UNADJUSTED NUMBER OF SAMPLES (U) = 90*((PC/C)/100)				
Australia	25.26	23		23	13	13
Canada	49.57	45		45	25	25
Costa Rica	0.89	1	8	8	8	8
Honduras	0.01	0	8	8	8	8
Mexico	0.25	0	8	8	8	8
New Zealand	22.43	20		20	11	12
Nicaragua	1.54	1	8	8	8	8
Uruguay	0.06	0	8	8	8	8
Total		90	40	128	89	90

Table 5.16 a
Number of Samples/Product Class - Veal, Fresh
2004 FSIS NRP, Import Monitoring Plan

VEAL, FRESH/ ANTIBIOTICS	PERCENT PRODUCT (P_{C/C})	UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) =24*[(P_{C/C})/100]	ADJUSTMENT #1 (8 MINIMUM/ COUNTRY)	INITIAL ADJ.#	ADJUST.# 2	FINAL ADJ.#
Australia	7.82	2		8	8	8
Canada	52.38	13		13	8	8
New Zealand	39.80	10		10	8	8
Total		25		31	24	24
VEAL, FRESH/ AVERMECTINS		UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) =24*[(P_{C/C})/100]				
Australia	7.82	2		8	8	8
Canada	52.38	13		13	8	8
New Zealand	39.80	10		10	8	8
Total		25		31	24	24
VEAL, FRESH/ SULFONAMIDES		UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) =24*[(P_{C/C})/100]				
Australia	7.82	2		8	8	8
Canada	52.38	13		13	8	8
New Zealand	39.80	10		10	8	8
Total		25		31	24	24

Table 5.16 b
Number of Samples/Product Class - Veal, Fresh
2004 FSIS NRP, Import Monitoring Plan

VEAL, FRESH/ CHLORAMPHENICOL	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	7.82	8	8
Canada	52.38	8	8
New Zealand	39.80	8	8
Total		24	24

Table 5.17
Number of Samples/Product Class - Pork, Fresh
2004 FSIS NRP, Import Monitoring Plan

PORK, FRESH/ ANTIBIOTICS/	PERCENT PRODUCT (P_{C/C})	UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) =300 * (P_{C/C})/100	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Canada	79.71	239		239	217	217
Denmark	18.60	56		56	51	51
Finland	0.46	1	8	8	8	8
France	0.01	0	8	8	8	8
Ireland	1.20	4		8	8	8
Mexico	0.02	0	8	8	8	8
United Kingdom	0.02	0	8	8	8	8
Total		300	32	335	308	308
PORK, FRESH/ ARSENICALS						
		UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) =230 * (P_{C/C})/100				
Canada	79.71	183		183	161	161
Denmark	18.60	43		43	37	37
Finland	0.46	1	8	8		8
France	0.01	0	8	8		8
Ireland	1.20	3		8		8
Mexico	0.02	0	8	8		8
United Kingdom	0.02	0	8	0		8
Total		230	32	258	198	238
PORK, FRESH/ AVERMECTINS						
		UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) =300 * (P_{C/C})/100				
Canada	79.71	239		239	217	217
Denmark	18.60	56		56	51	51
Finland	0.46	1	8	8	8	8
France	0.01	0	8	8	8	8
Ireland	1.20	4		8	8	8
Mexico	0.02	0	8	8	8	8
United Kingdom	0.02	0	8	8	8	8
Total		300	32	335	308	308
PORK, FRESH/ SULFONAMIDES						
		UNADJUSTED NUMBER OF SAMPLES (U_{C/S}) = 300*((P_{C/C})/100				
Canada	79.71	239		239	217	217
Denmark	18.60	56		56	51	51
Finland	0.46	1	8	8	8	8
France	0.01	0	8	8	8	8
Ireland	1.20	4		8	8	8
Mexico	0.02	0	8	8	8	8
United Kingdom	0.02	0	8	8	8	8
Total		300	32	335	308	308

Table 5.18
Number of Samples/Product Class - Lamb/Mutton, Fresh
2004 FSIS NRP, Import Monitoring Plan

LAMB/MUTTON, FRESH/ ANTIBIOTICS	PERCENT PRODUCT (P_{CC})	UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 90*(P_{CC})/100	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Australia	66.34	60		60	49	50
Canada	0.77	1	8	8	8	8
Iceland	0.10	0	8	8	8	8
New Zealand	32.78	30		30	24	24
Total		91	16	106	89	90
LAMB/MUTTON, FRESH/ AVERMECTINS		UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 90*(P_{CC})/100				
Australia	66.34	60		60	49	50
Canada	0.77	1	8	8	8	8
Iceland	0.10	0	8	8	8	8
New Zealand	32.78	30		30	24	24
Total		91	16	106	89	90
LAMB/MUTTON, FRESH/ SULFONAMIDES		UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 90*(P_{CC})/100				
Australia	66.34	60		60	49	50
Canada	0.77	1	8	8	8	8
Iceland	0.10	0	8	8	8	8
New Zealand	32.78	30		30	24	24
Total		91	16	106	89	90

Table 5.19
Number of Samples/Product Class - Pork, Processed
2004 FSIS NRP, Import Monitoring Plan

PORK, PROCESSED/ SULFONAMIDES	PERCENT PRODUCT (P_{CC})	UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 90*(P_{CC}/100)	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Australia	0.00002	0	8	8	8	8
Austria	0.02	0	8	8	8	8
Belgium	3.14	3		8	8	0 ¹
Canada	61.98	56		58	58	0 ¹
Croatia	0.11	0	8	8	8	8
Czechoslovakia	0.003	8	8			8
Denmark	15.63	14		13	13	0 ¹
France	0.24	0	8	8	8	0 ¹
Germany	0.42	0	8	8	8	8
Hungary	1.98	2		8	8	8
Ireland	0.31	0	8	8	8	0 ¹
Italy	2.47	2		8	8	8
Mexico	0.70	1	8	8	8	0 ¹
Netherlands	4.76	4		8	8	8
Poland	7.78	7		7	7	8
Spain	0.47	0	8	8	8	8
Total		98		174	174	80
PORK, PROCESSED/ ARSENICALS						
Australia	0.00002	0	8	8	8	8
Austria	0.02	0	8	8	8	8
Belgium	3.14	3		8	8	0 ¹
Canada	61.98	56		58	58	0 ¹
Croatia	0.11	0	8	8	8	8
Czechoslovakia	0.003	8				8
Denmark	15.63	14		13	13	0 ¹
France	0.24	0	8	8	8	0 ¹
Germany	0.42	0	8	8	8	8
Hungary	1.98	2		8	8	8
Ireland	0.31	0	8	8	8	0 ¹
Italy	2.47	2		8	8	8
Mexico	0.70	1	8	8	8	0 ¹
Netherlands	4.76	4		8	8	8
Poland	7.78	7		8	8	8
Spain	0.47	0	8	8	8	8
Total		98		175	175	80

¹ There will be no sampling of processed products from countries that also ship fresh products to the United States or source their raw material from other foreign countries that are eligible to ship fresh product and are actually exporting to United States.