Design of the Import Scheduled Sampling Plan for Veterinary Drugs

I. Selecting and Ranking Candidate Compounds

The candidate veterinary drugs of concern selected by members of the Surveillance Advisory Team (SAT) for the import scheduled sampling plan are the same as those listed in the section, *Design of the Import Scheduled Sampling Plan for Veterinary Drugs*. Furthermore, in ranking drugs for inclusion in the import scheduled sampling plan, FSIS also employs the ranking scores generated for the domestic scheduled sampling plan. This is 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 scheduled sampling plan.

II. Prioritizing Candidate Drugs

FSIS selects compounds and compound classes from the list of ranked veterinary drugs. The selection is based purely on their relative public health concern. FSIS and FDA decided that those compounds and compound classes that are a potential public health concern justify their inclusion in the 2005 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 2005 FSIS scheduled sampling plan.

Antibiotics:

At present, the following antibiotics are quantitated using the 7-plate bioassay[1] after a specific identification is made using mass spectroscopy (MS) or using high performance liquid chromatography (HPLC): tetracycline, oxytetracycline, chlortetracycline, gentamicin, streptomycin, dihydrostreptomycin, erythromycin, tylosin, neomycin, beta-lactams (quantitated as penicillin-G; penicillins and cephalosporins are not differentiated within this category), and tilmicosin (quantitated by HPLC). The following antimicrobials can be identified by MS; however, no quantitative methods are available: spectinomycin, hygromycin, amikacin, kanamycin, apramycin, tobramycin, lincomycin, pirlimycin, clindamycin, and oleandomycin

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[1] FSIS quantitates most antibiotics using a 7-plate bioassay that measures microbial inhibition. The pattern of inhibition (i.e., the combination of plates showing inhibition) is used to identify the antibiotic. There are some antibiotics, however, that share the same pattern of inhibition. For these antibiotics, it is necessary to undertake follow-up testing (High Performance Liquid Chromatography, HPLC, or mass spectrometry) to establish their identities, where such follow-up methodologies are available. Tetracycline, oxytetracycline, and chlortetracycline share patterns of inhibition and are individually identified by follow-up with the HPLC method for tetracyclines; tilmicosin, tylosin, lincomycin, clindamycin, erythromycin, and pirlimycin, which are individually identified by ion-trap LC/MS/MS. Tissues found to be positive for tilmicosin are quantitated by a NADA method using HPLC. Amikacin, apramycin, dihydrostreptomycin, gentamycin, hygromycin, kanamycin, neomycin, spectinomycin, streptomycin, and tobramycin are individually identified by ion-trap LC/MS/MS. Confirmation for sulfa drugs and flunixin are also provided by the residue chemistry section at the FSIS, Midwestern Laboratory.

Other Veterinary Drugs:

- 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)

Banned Drugs

- Chloramphenicol (Single compound method)

III. Identifying Compound/Production Class (C/PC) Pairs

SAT participants from the FDA identified, for each of the drugs and drug classes to be included in the 2005 NRP, product classes in which they had a concern. The results are presented in Table 7, *Product Classes Considered for Each Drug/Drug Class.* Compound/product class pairs included in the 2005 NRP are designated by a "●". Those compound/product class pairs that are of potential public health concern, but that are not included in the 2005 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 the section, *Design of the Import Scheduled Sampling Plan*) 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 "❶".

IV. Allocation of Sampling Resources

Egg Products

The samples for residue analysis for imported egg products are selected in a different manner than the other product classes. 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 8, *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 as shown in equation 7:

$$\% \text{ Product Class Imported } (P_C) = \frac{\text{Amount Product Class Imported}}{\text{Total Product Imported}} \times 100 \qquad \text{Equation 7}$$

The relative sampling priority is obtained by multiplying the percent product class (P_C) by the drug scores obtained in Phase I, using equation 8.

Relative Sampling Priority = (P_C) X Drug Score   Equation 8

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 11, *Number of Drug Samples/Product Class,* in the column labeled "Number of Samples."

FSIS, in its import scheduled sampling 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 pork from Australia, Denmark and Ireland, processed mutton/lamb products from Australia, Canada and New Zealand, Varied combination products from Canada, processed beef from Australia, Canada, Costa Rica, Mexico, New Zealand and Uruguay, and processed chicken from Canada 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 0.50 % relative to the total U.S. import, twenty four samples (3 countries X 8 samples) of goat fresh would be taken for each analysis, eight from each country.

The adjusted number of samples is listed in Table 11, 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 11 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 pork processed, veal processed, lamb/mutton processed, goat fresh, turkey fresh and processed, ratite fresh, chicken fresh, other fowl fresh and processed, varied combination fresh and processed and eggs processed 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 12-20. The adjusted numbers of samples per country/per product class is listed in the column labeled, "Final Number of Samples" in Tables 12-20.

Allocation of Samples in Product Classes Where the 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 8, *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 9, *Relative Annual Amount of Product Imported/Country.*

Percent Product Class Imported per Country ($P_{C/C}$) =

$$\frac{\text{Amount of Product Class from Country}}{\text{Total Amount of Product Class}} \times 100 \qquad \text{Equation 9}$$

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:

Unadjusted Number of Samples per Country ($U_{C/S}$) =

$$\text{Total Number of Samples} \times \frac{(P_{C/C})}{100} \qquad \text{Equation 10}$$

This is indicated in the column labeled "Unadjusted Number of Samples ($U_{C/S}$)," in Tables 21-26.

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 21-26. 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:

$$\text{Number of Samples after Adjustment \#2} = (U_{C/S}) - \frac{(N \times P_{C/C})}{(P_{T/C})} \qquad \text{Equation 11}$$

where ,

$N = (N_1) - (N_T)$
$N_1 =$ Total Number of Samples after Adjustment #1
$N_T =$ Total Number of Samples Allocated
$P_{T/C} =$ Total Percent of Product Class from the Countries That Had Greater Than Eight Samples
$P_{C/C} =$ Percent Product Class Imported Per Country
$U_{C/S} =$ 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 21-26 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 scheduled sampling Plan are the same as those listed in the section, *Design of the Domestic Scheduled Sampling Plan for Veterinary Drugs.*

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 the section, *Design of the Import Scheduled Sampling Plan for Pesticides*.

Table 7
Product Classes Considered for Each Drug/Drug Class
2005 FSIS NRP, Import Scheduled Sampling Plan

DRUG→	Antibiotics	Avermectins	Chloramphenicol	CHC/OP/PHB	Sulfonamides
Beef, fresh	●	●	●	●	●
Beef, processed		○		●	●
Beef/Pork, processed		○		●	●
Chicken, fresh	●			◉	●
Chicken, processed				◉	●
Goat, fresh	●			●	●
Lamb/Mutton, fresh	●	●		●	●
Lamb/Mutton, processed	●	●			●
Pork, fresh	●	●		●	●
Turkey, fresh	●			◉	●
Turkey, processed				◉	●
Varied combination fresh	●			●	●
Varied combination processed	●			●	●
Veal, fresh	●	●	●	●	●
Veal, processed		○		●	●

Key

● = Compound/product class sampled in the 2005 FSIS Import Scheduled Sampling 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.

Table 8
Estimated Annual Amount (in lbs.) of Product Imported
2005 FSIS NRP, Import Scheduled Sampling Plan

PRODUCT CLASS	PRODUCT IMPORTED IN POUNDS	% PRODUCT IMPORTED
Beef, fresh	2,044,827,872	52.99051614
Beef, processed	221,936,262	5.751348198
Pork, fresh	1,196,507,076	31.00677978
Pork, processed	34,329,352	0.889625037
Veal, fresh	48,012,189	1.244207735
Veal, processed	30,840	0.000799201
Lamb/Mutton, fresh	150,033,730	3.888036198
Lamb/Mutton, processed	255,043	0.00660929
Goat, fresh	19280049.3	0.499631181
Turkey , fresh	2,177,207	0.056421044
Ratite, fresh	440,838	0.011424058
Chicken, fresh	29,399,217	0.761863488
Chicken, processed	76,126,261	1.972767443
Turkey, processed	9,578,363	0.248217656
Other Fowl, fresh	4,844,201	0.12553463
Other Fowl, processed	204,590	0.00530182
Varied combination, fresh	221,692	0.005745018
Varied combination, processed	9522722.5	0.246775774
Eggs, processed	11,128,799	0.288396305
Total	**3,858,856,302**	**100**

Table 9
Estimated Annual Amount (in lbs.) of Product Imported/Country
2005 FSIS NRP, Import Scheduled Sampling Plan

PRODUCTION CLASS	Argentina	Australia	Belgium	Brazil	Canada
Beef, fresh		829,167,087			589,581,113
Beef, processed	50,329,188	2,401,298		114,642,447	28,653,429
Pork, fresh		369,506	3,243,226		1033073648
Pork, processed		5,674			
Beef/Pork, processed					
Veal, fresh		10,974,970			14,238,720
Veal, processed					3,261
Lamb/Mutton, fresh		94,671,873			405,179
Lamb/Mutton, processed		69,541			51994
Goat, fresh		17814672.3			
Turkey , fresh					2,177,207
Ratite, fresh		410,686			
Chicken, fresh					29,399,217
Chicken, processed					73,746,365
Turkey, processed					6,858,699
Other Fowl, fresh					4,643,638
Other Fowl, processed					123,701
Varied combination, fresh					221,692
Varied combination, processed		14,533			8,400,298
Eggs, processed					11128799
Total/country	**45,303,505**	**955,899,840**	**3,243,226**	**1,146,424,47**	**1,802,706,959**

PRODUCTION CLASS	Costa Rica	Croatia	Czech	Denmark	Finland	France
Beef, fresh	22,707,166					
Beef, processed	8,471					112,146
Pork, fresh		111,906	24,258	105,843037	2,106,242	515,592
Pork, processed				34,294,421		
Beef/Pork, processed						
Veal, fresh						
Veal, processed						27,579
Lamb/Mutton, fresh				20,760		
Lamb/Mutton, processed						837
Goat, fresh						
Turkey , fresh						
Ratite, fresh						
Chicken, fresh						
Chicken, processed						75,457
Turkey, processed						3,593
Other Fowl, fresh						183,512
Other Fowl, processed						80,889
Varied combination, fresh						
Varied combination, processed						25,666
Eggs, processed						
Total/country	**227,156,36.9**	**111,906**	**242,58**	**140,158,218**	**2,106,241.6**	**10,252,71**

Table 9 - *Continued*
Estimated Annual Amount (in lbs.) of Product Imported/Country
2005 FSIS NRP, Import Scheduled Sampling Plan

PRODUCTION CLASS	Germany	Honduras	Hungary	Iceland	Ireland	Israel
Beef, fresh		84,000				
Beef, processed						
Pork, fresh	950,331		3,865,934		6,009,236	
Pork, processed					29,257	
Beef/Pork, processed						
Veal, fresh						
Veal, processed						
Lamb/Mutton, fresh				192,012		
Lamb/Mutton, processed						
Goat, fresh						
Turkey , fresh						
Ratite, fresh						
Chicken, fresh						
Chicken, processed						745,212
Turkey, processed						790,453
Other Fowl, fresh						
Other Fowl, processed						
Varied combination, fresh						
Varied combination, processed						
Eggs, processed						
Total/country	**950,331**	**84,000**	**3,865,934**	**192,012**	**6,038,493**	**1,535,664.7**

PRODUCTION CLASS	Italy	Mexico	Netherlands	New Zealand	Nicaragua	N. Ireland
Beef, fresh		10,372,910		464,131,666	37,259,120	
Beef, processed		8,312,252		4,922,945		
Pork, fresh	6,595,043	2514437.03	9,168,824	728,307		2,693,159
Pork, processed						
Beef/Pork, processed						
Veal, fresh		313		22,798,186		
Veal, processed						
Lamb/Mutton, fresh				54,743,906		
Lamb/Mutton, processed				132,671		
Goat, fresh		1,821		1,463,556		
Turkey , fresh						
Ratite, fresh				30,152		
Chicken, fresh						
Chicken, processed		1,559,227				
Turkey, processed		1,925,618				
Other Fowl, fresh				17,051		
Other Fowl, processed						
Varied combination, fresh						
Varied combination, processed		1,080,845		1,381		
Eggs, processed						
Total/country	**6,595,043**	**25,767,423**	**9,168,824**	**548,969,821**	**37,259,120**	**2,693,159**

Table 9 - *Continued*
Estimated Annual Amount (in lbs.) of Product Imported/Country
2005 FSIS NRP, Import Scheduled Sampling Plan

PRODUCTION CLASS	Poland	Spain	Sweden	UK	Uruguay
Beef, fresh					91,524,810
Beef, processed					12,554,086
Pork, fresh	16,020,813	1,193,314	64,107	1,416,156	
Pork, processed					
Beef/Pork, processed					
Veal, fresh					
Veal, processed					
Lamb/Mutton, fresh					
Lamb/Mutton, processed					
Goat, fresh					
Turkey , fresh					
Ratite, fresh					
Chicken, fresh					
Chicken, processed					
Turkey, processed					
Other Fowl, fresh					
Other Fowl, processed					
Varied combination, fresh					
Varied combination, processed					
Eggs, processed					
Total/country	**16,020,813**	**1,193,314**	**64,107**	**1,416,156**	**104,078,896**

Table 10
Relative Annual Amount of Product Imported/Country
2005 FSIS NRP, Import Scheduled Sampling Plan

PRODUCTION CLASS	Argentina	Australia	Belgium	Brazil	Canada
Beef, fresh (Pc/c)		40.5494809			28.83279916
Beef, processed	22.67731637	1.081976318		51.6555724	12.91065673
Pork, fresh		0.030882057	0.27105782		86.34078884
Pork, processed		0.01652813			
Veal, fresh		22.85871606			29.65646879
Veal, processed					10.57392996
Lamb/Mutton, fresh		63.10039288			0.270058606
Lamb/Mutton, processed		27.26638253			20.38636622
Goat, fresh		92.39951632			
Ratite, fresh		93.16029925			
Chicken, fresh					100
Chicken, processed					96.8737521
Turkey, fresh					100
Turkey, processed					71.60617351
Other Fowl, fresh					95.85972648
Other Fowl, processed					60.46279967
Varied combination, fresh					100
Varied combination, processed		0.152613919			88.21319218
Eggs, processed					100

Table 10 - *Continued*
Relative Annual Amount of Product Imported/Country
2005 FSIS NRP, Import Scheduled Sampling Plan

Production Class	Costa Rica	Croatia	Czech	Denmark	Finland	France
Beef, Fresh	1.11046833					
Beef, Processed	0.00381686					0.050531
Pork, Fresh		0.009353	0.002027	8.8460018	0.17603252	0.043091
Pork, Processed				99.898247		
Beef/Pork, Processed						
Veal, Fresh						89.42607
Veal, Processed				0.0138369		
Lamb/Mutton, Fresh						0.32818
Lamb/Mutton, Processed						
Goat, Fresh						
Chicken, Fresh						
Chicken, Processed						0.099121
Turkey, Fresh						
Turkey, Processed						0.037512
Other Fowl, Fresh						3.788286
Other Fowl, Processed						39.5372
Varied combination, Processed						0.26952
Eggs, Processed						

Production Class	Germany	Honduras	Hungary	Iceland	Ireland	Israel	Italy
Beef, fresh (Pc/c)							
Beef, processed		0.004107925					
Pork, fresh							
Pork, processed	0.079425		0.3231016		0.5022315		0.5511913
Veal, fresh					0.0852244		
Veal, processed							
Lamb/Mutton, fresh							
Lamb/Mutton, processed				0.127979			
Goat, fresh							
Ratite, fresh							
Chicken, fresh							
Chicken, processed							
Turkey, fresh						0.9789158	
Turkey, processed							
Other Fowl, fresh						8.2524822	
Other Fowl, processed							
Varied combination, fresh							
Varied combination, processed							
Eggs, processed							

Production Class	Mexico	Netherlands	New Zealand	Nicaragua	N Ireland
Beef, fresh (Pc/c)	0.50727546		22.69783546	1.82211522	
Beef, processed	3.7453331		2.218179646		
Pork, fresh	0.21014811	0.7662992	0.060869427		0.2250851
Pork, processed					
Veal, fresh	0.00065192		47.48416324		
Veal, processed					
Lamb/Mutton, fresh			36.48773241		
Lamb/Mutton, processed			52.01907129		
Goat, fresh	0.009445		7.591038681		
Ratite, fresh			6.839700752		
Chicken, fresh					
Chicken, processed	2.0482115				
Turkey, fresh					
Turkey, processed	20.1038326				
Other Fowl, fresh			0.351987874		
Other Fowl, processed					
Varied combination, fresh					
Varied combination, processed	11.350168		0.014502155		
Eggs, processed					

Table 10 - *Continued*
Relative Annual Amount of Product Imported/Country
2005 FSIS NRP, Import Scheduled Sampling Plan

Production Class	Poland	Spain	Sweden	Switzerland	Uruguay
Beef, fresh (Pc/c)					4.4759175
Beef, processed					5.6566177
Pork, fresh	1.3389652	0.099733	0.005358	0.118358	
Pork, processed					
Veal, fresh					
Veal, processed					
Lamb/Mutton, fresh					
Lamb/Mutton, processed					
Goat, fresh					
Ratite, fresh					
Chicken, fresh					
Chicken, processed					
Turkey, fresh					
Turkey, processed					
Other Fowl, fresh					
Other Fowl, processed					
Varied combination, fresh					
Varied combination, processed					
Eggs, processed					

Table 11
Number of Drug Samples/Product Class
2005 FSIS NRP, Import Scheduled Sampling Plan

No of Countries	Production Class	Drug	% Product Imported	Score	RSP	No. of Samples	Unadjusted No. of Samples	Final No of Samples
8	Beef, Fresh	Antibiotics	52.99	15	794.85	300	302	302
8	Beef, Fresh	Avermectins	52.99	14	741.86	300	302	302
8	Beef, Fresh	Sulfonamides	52.99	12	635.88	300	302	302
20	Pork Fresh	Antibiotics	31.01	15	465.15	300	298	303
20	Pork Fresh	Avermectins	31.01	14	434.14	300	298	303
20	Pork Fresh	Sulfonamides	31.01	12	372.12	300	298	303
3	Pork Processed	Sulfonamides	5.75	12	69.00	90	24	0
9	Beef, Processed	Sulfonamides	5.75	12	69.00	230	179	121
5	Mutton/Lamb Fresh	Antibiotics	3.89	15	58.35	90	113	90
5	Mutton/Lamb Fresh	Avermectins	3.89	14	54.46	90	113	90
5	Mutton/Lamb Fresh	Sulfonamides	3.89	12	46.68	90	113	90
4	Chicken Processed	Sulfonamides	1.97	12	23.64	90	24	24
4	Veal Fresh	Antibiotics	1.24	15	18.60	90	90	91
4	Veal Fresh	Avermectins	1.24	14	17.36	90	90	91
4	Veal Fresh	Sulfonamides	1.24	12	14.88	90	90	91
1	Chicken Fresh	Antibiotics	0.76	15	11.40	90	8	8
1	Chicken Fresh	Sulfonamides	0.76	12	9.12	90	8	8
3	Goat Fresh	Antibiotics	0.49	15	7.35	90	24	24
3	Goat Fresh	Sulfonamides	0.49	12	5.88	90	24	24
5	Varied combination, Processed	Antibiotics	0.25	15	3.75	90	40	32
5	Varied combination, Processed	Sulfonamides	0.25	12	3.00	90	40	32

No of Countries	Production Class	Drug	% Product Imported	Score	RSP	No. of Samples	Unadjusted No. of Samples	Final No of Samples
4	Turkey Processed	Sulfonamides	0.24	12	2.88	90	32	24
1	Turkey Fresh	Sulfonamides	0.06	12	0.72	90	8	8
1	Varied combination, Fresh	Antibiotics	0.01	15	0.15	90	8	8
4	Mutton/Lamb Processed	Antibiotics	0.01	15	0.15	90	32	8
4	Mutton/Lamb Processed	Avermectins	0.01	14	0.14	90	32	8
1	Varied combination, Fresh	Sulfonamides	0.01	12	0.12	90	8	8
4	Mutton/Lamb Processed	Sulfonamides	0.01	12	0.12	90	32	8
2	Veal Processed	Sulfonamides	0.001	12	0.01	90	16	8
4	Veal Fresh	Chloramphenicol	1.24	0	0	90	90	91
8	Beef, Fresh	Chloramphenicol	52.99	0	0	90	90	93
						4490	3321	2903

Table 12
Number of Samples/Product Class – Pork, Processed
2005 FSIS NRP, Import Scheduled Sampling Plan

PORK, PROCESSED/ SULFONAMIDES	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	0.02	8	0[1]
Denmark	99.90	8	0[1]
Ireland	0.08	8	0[1]
Total	**100**	**24**	**0**

Table 13
Number of Samples/Product Class - Veal, Processed
2005 FSIS NRP, Import Scheduled Sampling Plan

VEAL, PROCESSED/ SULFONAMIDES	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	11	8	0[1]
France	89	8	8
Total		**16**	**8**

Table 14
Number of Samples/Product Class – Mutton/Lamb Processed
2005 FSIS NRP, Import Scheduled Sampling Plan

MUTTON/LAMB PROCESSED/ ANTIBIOTICS	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	27	8	0[1]
Canada	20	8	0[1]
France	1	8	8
New Zealand	52	8	0[1]
Total	**100**	**32**	**8**
MUTTON/LAMB PROCESSED/ AVERMECTINS			
Australia	27	8	0[1]
Canada	20	8	0[1]
France	1	8	8
New Zealand	52	8	0[1]
Total	**100**	**32**	**8**
MUTTON/LAMB PROCESSED/ SULFONAMIDES			
Australia	27	8	0[1]
Canada	20	8	0[1]
France	1	8	8
New Zealand	52	8	0[1]
Total	**100**	**32**	**8**

Table 15
Number of Samples/Product Class - Goat, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

GOAT, FRESH/ ANTIBIOTICS	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	92	8	8
Mexico	0.01	8	8
New Zealand	7.6	8	8
Total		**24**	**24**
GOAT, FRESH/ SULFONAMIDES			
Australia	92	8	8
Mexico	0.01	8	8
New Zealand	7.6	8	8
Total		**24**	**24**

Table 16
Number of Samples/Product Class – Turkey, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

TURKEY FRESH/ SULFONAMIDES	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	100	8	8
Total		**8**	**8**

Table 17
Number of Samples/Product Class - Turkey, Processed
2005 FSIS Import Scheduled Sampling Plan

TURKEY, PROCESSED/SULFONAMIDES	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	71	8	8
France	1	8	8
Israel	8	8	8
Mexico	20	8	8
Total	**100**	**32**	**32**

Table 18
Number of Samples/Product Class - Chicken, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

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

Table 19
Number of Samples/Product Class – Varied Combination, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

VARIED COMBINATION /ANTIBIOTICS	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	100	8	8
Total		**8**	**8**
VARIED COMBINATION / SULFONAMIDES			
Canada	100	8	8
Total		**8**	**8**

Table 20
Number of Samples/Product Class – Varied Combination, Processed
2005 FSIS Import Scheduled Sampling Plan

VARIED COMBINATION, PROCESSED, SULFONAMIDES	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	0.15	8	8
Canada	88.21	8	0[1]
France	0.27	8	8
Mexico	11.35	8	8
Netherlands	0.01	8	8
Total	**100**	**40**	**32**
VARIED COMBINATION, PROCESSED, ANTIBIOTICS	**PERCENT PRODUCT**	**UNADJUSTED NUMBER OF SAMPLES**	**FINAL NUMBER OF SAMPLES**
Australia	0.15	8	8
Canada	88.21	8	0[1]
France	0.27	8	8
Mexico	11.35	8	8
Netherlands	0.01	8	8
Total	**100**	**40**	**32**

Table 21
Number of Samples/Product Class - Beef, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

BEEF, 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 NUMBER	ADJUST. # 2	FINAL ADJ #
Australia	40	120		120	111	111
Canada	29	87		87	81	81
Costa Rica	1	3	8	8	8	8
Honduras	0.004	0.012	8	8	8	8
Mexico	0.5	1.5	8	8	8	8
New Zealand	23	69		69	64	64
Nicaragua	2	6	8	8	8	8
Uruguay	5	15		15	14	14
Total	**100.504**	**301.512**	**32**	**323**	**302**	**302**
BEEF, FRESH/ AVERMECTINS						
Australia	40	120		120	111	111
Canada	29	87		87	81	81
Costa Rica	1	3	8	8	8	8
Honduras	0.004	0.012	8	8	8	8
Mexico	0.5	1.5	8	8	8	8
New Zealand	23	69		69	64	64
Nicaragua	2	6	8	8	8	8
Uruguay	5	15		15	14	14
Total	**100.504**	**301.512**	**32**	**323**	**302**	**302**
BEEF, FRESH/ SULFONAMIDES						
Australia	40	120		120	111	111
Canada	29	87		87	81	81
Costa Rica	1	3	8	8	8	8
Honduras	0.004	0.012	8	8	8	8
Mexico	0.5	1.5	8	8	8	8
New Zealand	23	69		69	64	64
Nicaragua	2	6	8	8	8	8
Uruguay	5	15		15	14	14
Total	**100.504**	**301.512**	**32**	**323**	**302**	**302**
BEEF, FRESH/ CHLORAM-PHENICOL						
Australia	40	36		36	23	23
Canada	29	26.1		26	17	17
Costa Rica	1	0.9	8	8	8	8
Honduras	0.004	0.0036	8	8	8	8
Mexico	0.5	0.45	8	8	8	8
New Zealand	23	20.7		21	13	13
Nicaragua	2	1.8		8	6	8
Uruguay	5	4.5		8	3	8
Total	**100.504**	**90.4536**	**24**	**123**	**85**	**93**

Table 22
Number of Samples/Product Class - Beef, Processed
2005 FSIS NRP, Import Scheduled Sampling 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	22	50.6		51	34	34
Australia	1	2.3	8	8	2	0[1]
Brazil	52	119.6		120	79	79
Canada	13	29.9	0	30	20	0[1]
Costa Rica	0.004	0.0092	8	8	0	0[1]
France	0.05	0.115	8	8	8	8
Mexico	3.74	8.602	0	9	6	0[1]
New Zealand	2	4.6	8	8	3	0[1]
Uruguay	6	13.8	0	14	9	0[1]
Total	**99.794**	**178.9262**	**32**	**256**	**160**	**121**

Table 23
Number of Samples/Product Class - Pork, Fresh
2005 FSIS NRP, Import Scheduled Sampling 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.#
Australia	0.03	0.09	8	8		8
Belgium	0.27	0.81	8	8		8
Canada	86	258	258	258	144	144
Croatia	0.01	0.03	8	8		8
Czechoslovakia	0.002	0.006	8	8		8
Denmark	9	27	27	27	15	15
Finland	0.2	0.6	8	8		8
France	0.04	0.12	8	8		8
Germany	0.07	0.21	8	8		8
Hungary	0.32	0.96	8	8		8
Ireland	0.5	1.5	8	8		8
Italy	0.6	1.8	8	8		8
Mexico	0.21	0.63	8	8		8
Netherlands	0.8	2.4	8	8		8
New Zealand	0.06	0.18	8	8		8
N. Ireland	0.23	0.69	8	8		8
Poland	1	3	8	8		8
Spain	0.01	0.03	8	8		8
Sweden	0.01	0.03	8	8		8
Switzerland	0.11	0.33	8	8		8
Total	**99.472**	**298.416**	**298.416**	**429**		**303**
PORK, FRESH/ AVERMECTINS		UNADJUSTED NUMBER OF SAMPLES ($U_{C/S}$) = 300*(($P_{C/C}$)/100				
Australia	0.03	0.09	8	8		8
Belgium	0.27	0.81	8	8		8
Canada	86	258	258	258	144	144
Croatia	0.01	0.03	8	8		8
Czechoslovakia	0.002	0.006	8	8		8
Denmark	9	27	27	27	15	15
Finland	0.2	0.6	8	8		8
France	0.04	0.12	8	8		8
Germany	0.07	0.21	8	8		8
Hungary	0.32	0.96	8	8		8
Ireland	0.5	1.5	8	8		8
Italy	0.6	1.8	8	8		8
Mexico	0.21	0.63	8	8		8
Netherlands	0.8	2.4	8	8		8
New Zealand	0.06	0.18	8	8		8
N. Ireland	0.23	0.69	8	8		8
Poland	1	3	8	8		8
Spain	0.01	0.03	8	8		8
Sweden	0.01	0.03	8	8		8
Switzerland	0.11	0.33	8	8		8
Total	**99.472**	**298.416**	**298.416**	**429**		**303**

Table 23 - *continued*
Number of Samples/Product Class - Pork, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

PORK, FRESH/ SULFONAMIDES		UNADJUSTED NUMBER OF SAMPLES ($U_{C/S}$) =300 * ($P_{C/C}$)/100				
Australia	0.03	0.09	8	8		8
Belgium	0.27	0.81	8	8		8
Canada	86	258	258	258	144	144
Croatia	0.01	0.03	8	8		8
Czechoslovakia	0.002	0.006	8	8		8
Denmark	9	27	27	27	15	15
Finland	0.2	0.6	8	8		8
France	0.04	0.12	8	8		8
Germany	0.07	0.21	8	8		8
Hungary	0.32	0.96	8	8		8
Ireland	0.5	1.5	8	8		8
Italy	0.6	1.8	8	8		8
Mexico	0.21	0.63	8	8		8
Netherlands	0.8	2.4	8	8		8
New Zealand	0.06	0.18	8	8		8
N. Ireland	0.23	0.69	8	8		8
Poland	1	3	8	8		8
Spain	0.01	0.03	8	8		8
Sweden	0.01	0.03	8	8		8
Switzerland	0.11	0.33	8	8		8
	99.472	298.416	298.416	429		303

Table 24
Number of Samples/Product Class - Chicken, Processed
2005 FSIS NRP, Import Scheduled Sampling Plan

CHICKEN, PROCESSED/ SULFONAMIDES	PERCENT PRODUCT ($P_{C/C}$)	UNADJUSTED NUMBER OF SAMPLES ($U_{C/S}$) = 90*(($P_{C/C}$)/100)	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Canada	97	87.3	0	0	0	0[1]
France	0.1	0.09	8	8	8	8
Israel	1	0.9	8	8	8	8
Mexico	2	1.8	8	8	8	8
Total		**90.09**	**24**	**24**	**24**	**24**

Table 25
Number of Samples/Product Class - Veal, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

VEAL, FRESH/ ANTIBIOTICS	PERCENT PRODUCT $(P_{C/C})$	UNADJUSTED NUMBER OF SAMPLES $(U_{c/s})$ =90*[$(P_{C/C})$/100]	ADJUSTMENT #1 (8 MINIMUM/ COUNTRY)	INITIAL ADJ.#	ADJUST.# 2	FINAL ADJ.#
Australia	23	20.7		21	18.86	19
Canada	30	27		27	24.6	25
Mexico	0.01	0.009	8	8	8	8
New Zealand	47	42.3		42	38.54	39
Total	**100.01**	**90.009**		**98**	**90**	**91**
VEAL, FRESH/ AVERMECTINS		**UNADJUSTED NUMBER OF SAMPLES $(U_{c/s})$ =90*[$(P_{C/C})$/100]**				
Australia	23	20.7		21	18.86	19
Canada	30	27		27	24.6	25
Mexico	0.01	0.009	8	8	8	8
New Zealand	47	42.3		42	38.54	39
Total	**100.01**	**90.009**		**98**	**90**	**91**
VEAL, FRESH/ SULFONAMIDES		**UNADJUSTED NUMBER OF SAMPLES $(U_{c/s})$ =90*[$(P_{C/C})$/100]**				
Australia	23	20.7		21	18.86	19
Canada	30	27		27	24.6	25
Mexico	0.01	0.009	8	8	8	8
New Zealand	47	42.3		42	38.54	39
Total	**100.01**	**90.009**		**98**	**90**	**91**
VEAL, FRESH/ CHLORAMPHEN- ICOL		**UNADJUSTED NUMBER OF SAMPLES $(U_{c/s})$ =90*[$(P_{C/C})$/100]**				
Australia	23	20.7		21	18.86	19
Canada	30	27		27	24.6	25
Mexico	0.01	0.009	8	8	8	8
New Zealand	47	42.3		42	38.54	39
Total	**100.01**	**90.009**		**98**	**90**	**91**

Table 26
Number of Samples/Product Class - Mutton/Lamb, Fresh
2005 FSIS NRP, Import Scheduled Sampling Plan

MUTTON/LAMB, FRESH/ ANTIBIOTICS	PERCENT PRODUCT $(P_{C/C})$	UNADJUSTED NUMBER OF SAMPLES $(U_{C/S})$ $= 90*((P_{C/C})/100)$	ADJUST. #1 (MIN. 8 SAMPLES/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Australia	63	56.7		57	42	42
Canada	0.3	0.27	8	8	8	8
Denmark	0.01	0.009	8	8	8	8
Iceland	0.13	0.117	8	8	8	8
New Zealand	36	32.4		32	24	24
Total	99.44	**89.496**	**16**	**113**	**90**	**90**
MUTTON/LAMB, FRESH/ SULFONAMIDES		**UNADJUSTED NUMBER OF SAMPLES $(U_{C/S})$ $= 90*((P_{C/C})/100)$**				
Australia	63	56.7		57	42	42
Canada	0.3	0.27	8	8	8	8
Denmark	0.01	0.009	8	8	8	8
Iceland	0.13	0.117	8	8	8	8
New Zealand	36	32.4		32	24	24
Total	99.44	**89.496**	**16**	**113**	**90**	**90**
MUTTON/LAMB, FRESH/ AVERMENCTINS		**UNADJUSTED NUMBER OF SAMPLES $(U_{C/S})$ $= 90*((P_{C/C})/100)$**				
Australia	63	56.7		57	42	42
Canada	0.3	0.27	8	8	8	8
Denmark	0.01	0.009	8	8	8	8
Iceland	0.13	0.117	8	8	8	8
New Zealand	36	32.4		32	24	24
Total	99.44	**89.496**	**16**	**113**	**90**	**90**

[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.