

SECTION 9. THE 2003 FSIS NATIONAL RESIDUE PROGRAM: DOMESTIC MONITORING PLAN AND EXPLORATORY PROJECTS, AND IMPORT MONITORING PLAN

The Food Safety and Inspection Service (FSIS), working with its partner agencies, has developed sampling allocation systems for compound/production class pairs (domestic residue sampling plans) and compound/product class pairs (import residue sampling plan) that are founded on a public health-based prioritization process. These systems each incorporate a structured planning process that employs risk assessment formulas and uses the best available data to develop relative rankings within these formulas. These systems do not, and were not intended to, generate formal absolute estimates of risk that can be interpreted in an actuarial sense. Nevertheless, their relative risk-based rankings are sufficient to develop sound and internally consistent allocations of sampling resources. These rankings help FSIS to manage the public health concerns presented by a comprehensive range of veterinary drugs and pesticides in the egg product, meat, and poultry production classes for which FSIS has regulatory authority.

The final domestic sampling plan for veterinary drugs and pesticides in all production classes is listed in Table 9.1, *Detailed Sampling Plan, 2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects*. This table also specifies, for each combination of compound and production class, which FSIS laboratory will be conducting the analyses, and the category into which the sampling falls - Monitoring, 'modified Monitoring' (modifications designated in footnotes), or Exploratory. For the convenience of the reader, this information is also presented in summary form (including all sampling numbers, but not including the laboratory and sampling plan designation), in Table 9.2, *Summary, 2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects*.

The final detailed import plan sample numbers for all compounds (veterinary drugs and pesticides), in all product classes and all countries, are listed in Table 9.3, *Summary, 2003 FSIS NRP, Import Monitoring Plan*. The summary of the total number of samples per compound per production class is listed in Table 9.4 *Number of Compounds/Product Class, 2003 FSIS NRP, Import Monitoring Plan*. In Table 9.5, *Number of Samples/Country/Product Class, 2003 FSIS NRP, Import Monitoring Plan*, the number of samples per country per production class is listed

A combined summary of all random sampling for domestic and imported products is provided in Table 9.6, *Combined Summary, 2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects and Import Monitoring Plan*.

Table 9.1 - Continued
Detailed Sampling Plan
2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects

ANALYSIS	LAB	PROD. CLASS	#SAMP.	TYPE
Antibiotics by Bioassay	MWL	Market hogs	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Dairy cows	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Formula-fed veal	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Young chickens	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Steers	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Heifers	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Young turkeys	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Bob veal	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Horses	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Beef cows	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Sows	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Lambs	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Roaster pigs	300	Monitoring Plan ¹
Antibiotics by Bioassay	MWL	Bison	90	Monitoring Plan ¹
Antibiotics by Bioassay	MWL	Ratites	90	Monitoring Plan ¹
Antibiotics by Bioassay	MWL	Rabbits	90	Monitoring Plan
Antibiotics by Bioassay	MWL	Bulls	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Mature chickens	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Ducks	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Boars/stags	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Mature turkeys	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Goats	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Heavy calves	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Sheep	230	Monitoring Plan
Antibiotics by Bioassay	MWL	Non-formula-fed veal	300	Monitoring Plan
Antibiotics by Bioassay	MWL	Geese	90	Monitoring Plan
Antibiotics by Bioassay	MWL	Squab	45	Monitoring Plan ¹
Total Antibiotics by Bioassay	MWL		6445	

¹Sampling frame is incomplete, and therefore the data may not be fully representative of the sampled population.

Table 9.1 - Continued
Detailed Sampling Plan
2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects

ANALYSIS	LAB	PROD. CLASS	#SAMP.	TYPE
Avermectins	EL	Steers	300	Monitoring Plan
Avermectins	EL	Horses	230	Monitoring Plan
Avermectins	EL	Market hogs	300	Monitoring Plan
Avermectins	EL	Heifers	300	Monitoring Plan
Avermectins	EL	Dairy cows	300	Monitoring Plan
Avermectins	EL	Beef cows	300	Monitoring Plan
Avermectins	EL	Bulls	300	Monitoring Plan
Avermectins	EL	Lambs	230	Monitoring Plan
Avermectins	EL	Goats	300	Monitoring Plan
Avermectins	EL	Sows	230	Monitoring Plan
Avermectins	EL	Formula-fed veal	90	Monitoring Plan
Avermectins	EL	Bob veal	90	Monitoring Plan
Avermectins	EL	Heavy calves	230	Monitoring Plan
Avermectins	EL	Roaster pigs	230	Monitoring Plan ¹
Avermectins	EL	Bison	90	Monitoring Plan ¹
Avermectins	EL	Ratites	90	Monitoring Plan ¹
Avermectins	EL	Non-formula-fed veal	90	Monitoring Plan
Avermectins	EL	Rabbits	0	Monitoring Plan
Avermectins	EL	Boars/stags	90	Monitoring Plan
Avermectins	EL	Sheep	90	Monitoring Plan
Total Avermectins	EL		3880	
Arsenicals	EL	Young chickens	1200	Monitoring Plan
Arsenicals	EL	Young turkeys	460	Monitoring Plan
Arsenicals	EL	Egg products	230	Monitoring Plan
Arsenicals	EL	Market hogs	300	Monitoring Plan
Arsenicals	EL	Beef cows	300	Monitoring Plan
Arsenicals	EL	Goats	230	Monitoring Plan
Arsenicals	EL	Sows	230	Monitoring Plan
Arsenicals	EL	Mature chickens	230	Monitoring Plan
Arsenicals	EL	Ducks	300	Monitoring Plan
Arsenicals	EL	Roaster pigs	230	Monitoring Plan ¹
Arsenicals	EL	Boars/stags	90	Monitoring Plan
Arsenicals	EL	Mature turkeys	90	Monitoring Plan
Arsenicals	EL	Geese	90	Monitoring Plan
Total Arsenicals	EL		3980	

Table 9.1 - Continued
Detailed Sampling Plan
2003 FSIS NRP, Monitoring Plan and Exploratory Projects

ANALYSIS	LAB	PROD. CLASS	#SAMP.	TYPE
Sulfonamides	MWL or EL	Young chickens	300	Monitoring Plan
Sulfonamides	MWL or EL	Market hogs	300	Monitoring Plan
Sulfonamides	MWL or EL	Steers	300	Monitoring Plan
Sulfonamides	MWL or EL	Heifers	300	Monitoring Plan
Sulfonamides	MWL or EL	Young turkeys	300	Monitoring Plan
Sulfonamides	EL	Egg products	230	Monitoring Plan
Sulfonamides	MWL or EL	Dairy cows	230	Monitoring Plan
Sulfonamides	MWL or EL	Beef cows	230	Monitoring Plan
Sulfonamides	MWL or EL	Sows	300	Monitoring Plan
Sulfonamides	MWL or EL	Bulls	300	Monitoring Plan
Sulfonamides	MWL or EL	Mature chickens	90	Monitoring Plan
Sulfonamides	MWL or EL	Lambs	230	Monitoring Plan
Sulfonamides	MWL or EL	Formula-fed veal	230	Monitoring Plan
Sulfonamides	MWL or EL	Boars/stags	230	Monitoring Plan
Sulfonamides	MWL or EL	Mature turkeys	230	Monitoring Plan
Sulfonamides	MWL or EL	Bob veal	230	Monitoring Plan
Sulfonamides	MWL or EL	Roaster pigs	300	Monitoring Plan ¹
Sulfonamides	MWL or EL	Bison	90	Monitoring Plan ¹
Sulfonamides	MWL or EL	Ducks	90	Monitoring Plan
Sulfonamides	MWL or EL	Goats	230	Monitoring Plan
Sulfonamides	MWL or EL	Horses	230	Monitoring Plan
Sulfonamides	MWL or EL	Heavy calves	230	Monitoring Plan
Sulfonamides	MWL or EL	Ratites	90	Monitoring Plan ¹
Sulfonamides	MWL or EL	Non-formula-fed veal	230	Monitoring Plan
Sulfonamides	MWL or EL	Geese	90	Monitoring Plan
Sulfonamides	MWL or EL	Squab	45	Monitoring Plan ¹
Total Sulfonamides	MWL + EL		5655	

Table 9.1 - Continued
Detailed Sampling Plan
2003 FSIS NRP, Monitoring Plan and Exploratory Projects

ANALYSIS	LAB	PROD. CLASS	#SAMP.	TYPE
CHC's/COP's/Phenylbutazone	WL	Young chickens	460	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Market hogs	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Steers	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Heifers	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Young turkeys	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Egg products	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Dairy cows	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Beef cows	300	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Sows	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Bulls	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Mature chickens	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Roaster pigs	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Lambs	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Formula-fed veal	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Ducks	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Boars/stags	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Mature turkeys	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Goats	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Bob veal	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Horses	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Heavy calves	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Bison	90	Monitoring Plan ¹
CHC's/COP's/Phenylbutazone	WL	Sheep	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Ratites	90	Monitoring Plan ¹
CHC's/COP's/Phenylbutazone	WL	Non-formula-fed veal	230	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Geese	90	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Rabbits	90	Monitoring Plan
CHC's/COP's/Phenylbutazone	WL	Squab	45	Monitoring Plan ¹
Total CHC's/COP's/Phenylbutazone	WL		6275	

**Table 9.1 - Continued
Detailed Sampling Plan
2003 FSIS NRP, Monitoring Plan and Exploratory Projects**

ANALYSIS	LAB	PROD. CLASS	#SAM P.	TYPE
Chloramphenicol	EL	Dairy cows	300	Monitoring Plan
Chloramphenicol	EL	Formula-fed veal	300	Monitoring Plan
Chloramphenicol	EL	Non-formula-fed veal	300	Monitoring Plan
Total Chloramphenicol	EL		900	
Clenbuterol and other beta agonists*	WL+FDA	Formula-fed veal	230	Monitoring Plan ²
Clenbuterol and other beta agonists*	WL+FDA	Market hogs	300	Monitoring Plan ²
Clenbuterol and other beta agonists*	WL+FDA	Steers	300	Monitoring Plan ²
Clenbuterol and other beta ags. *	WL+FDA		830	
DES/zeranol	MWL	Formula-fed veal	360	Monitoring Plan
Total DES/zeranol	MWL		360	
Dioxins	ARS-RRVARC	Steers/heifers	136	Monitoring Plan
Dioxins	ARS-RRVARC	Market hogs	136	Monitoring Plan
Dioxins	ARS-RRVARC	Young chickens	144	Monitoring Plan
Dioxins	ARS-RRVARC	Young turkeys	84	Monitoring Plan
Total Dioxins	ARS-RRVARC		500	
Flunixin	MWL	Dairy cows	300	Monitoring Plan ²
Flunixin	MWL	Horses	160	Monitoring Plan ²
Total Flunixin	MWL		460	
MGA (melengesterol acetate)	MWL	Heifers	300	Monitoring Plan ²
Total MGA	MWL		300	
Ractopamine	MWL	Market hogs	300	Monitoring Plan
Ractopamine	MWL	Steers	230	Monitoring Plan
Total Ractopamine	MWL		530	

*Samples from a total of 830 animals (from each animal, both eyeballs and a pound of liver will be collected) will be sent to WL. WL will perform a screen for clenbuterol in the eyeball, which is the most sensitive tissue in which to test for the presence of beta agonists. This screen has been officially validated for clenbuterol only, but has also demonstrated the ability to detect other beta agonists, including fenoterol and cimaterol. If the sample is positive, WL will send an eyeball to FDA for confirmatory analysis using mass spectrometry. The FDA confirmatory method detects eight unapproved beta agonists (clenbuterol, cimaterol, fenoterol, mabuterol, salbutamol, brombuterol, and terbutaline). WL will retain the liver should additional testing be necessary.

Key:

PROD. CLASS = Production class; CHC = Chlorinated hydrocarbon; COP = Chlorinated organophosphate; EL = FSIS Eastern Laboratory, Athens, GA; MWL = FSIS Midwestern Laboratory, St. Louis, MO; WL = FSIS Western Laboratory, Alameda, CA; FDA = Food and Drug Administration, National Center for Toxicological Research, Jefferson, AR; ARS-RRVARC = Agricultural Research Service, Red River Valley Agricultural Research Center, Fargo, ND.²

² Because of laboratory scheduling requirements, these sampling plans will be conducted for less than a full calendar year.

Table 9.2
Summary
2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects

PRODUCTION CLASS	Antibiotics	Arsenicals	Avermectins	Sulfonamides	CHC's/COP's/phenylbut e.	Dioxins
Bulls	230		300	300	230	
Beef cows	300	300	300	230	300	
Dairy cows	300		300	230	300	
Heifers	300		300	300	300	136
Steers	300		300	300	300	
Bob veal	300		90	230	230	
Formula-fed veal	300		90	230	230	
Non-formula-fed veal	300		90	230	230	
Heavy calves	230		230	230	230	
SUBTOTAL, CATTLE	2560	300	2000	2280	2350	136
Market hogs	300	300	300	300	300	136
Roaster pigs	300	230	230	300	230	
Boars/Stags	230	90	90	230	230	
Sows	300	230	230	300	230	
SUBTOTAL, SWINE	1130	850	850	1130	990	136
Sheep	230		90		230	
Lambs	300		230	230	230	
SUBTOTAL, OVINE	530	0	320	230	460	0
Goats	230	230	300	230	230	
Horses	230		230	230	230	
Bison	90		90	90	90	
SUBT., OTHER LIVESTC.	550	230	620	550	550	0
TOTAL, ALL LIVESTOCK	4770	1380	3790	4190	4350	272
Young chickens	300	1200		300	460	144
Mature chickens	300	230		90	230	
Young turkeys	300	460		300	230	84
Mature turkeys	230	90		230	230	
Ducks	230	300		90	230	
Geese	90	90		90	90	
Ratites	90		90	90	90	
Squab	45			45	45	
SUBTOTAL, POULTRY	1585	2370	90	1235	1605	228
Rabbits	90				90	
Egg products		230		230	230	
GRAND TOTAL, ALL PRODUCTION CLASSES	6442	3980	3880	5655	6275	500

Table 9.2 - Continued
Summary
2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects

PRODUCTION CLASS	Chloramphenicol	Clenbuterol, and other beta agonists	DES/zeranol	Flunixin	MGA	Ractopamine
Bulls						
Beef cows						
Dairy cows	300			300		
Heifers					300	
Steers		300				230
Bob veal						
Formula-fed veal	300	230	360			
Non-formula-fed veal	300					
Heavy calves						
SUBTOTAL, CATTLE	900	530	360	300	300	230
Market hogs		300				300
Roaster pigs						
Boars/Stags						
Sows						
SUBTOTAL, SWINE	0	300	0	0	0	300
Sheep						
Lambs						
SUBTOTAL, OVINE	0	0	0	0	0	0
Goats						
Horses				160		
Bison						
SUBT., OTHER LIVESTC.	0	0	0	160	0	0
TOTAL, ALL LIVESTOCK	900	830	360	460	300	530
Young chickens						
Mature chickens						
Young turkeys						
Mature turkeys						
Ducks						
Geese						
Ratites						
Squab						
SUBTOTAL, POULTRY	0	0	0	0	0	0
Rabbits						
Egg products						
GRAND TOTAL, ALL PRODUCTION CLASSES	900	830	360	460	300	530

Table 9.3
Summary
2003 FSIS NRP, Import Monitoring Plan

COUNTRY	Product	COMPOUND	NUMBER OF SAMPLES
Argentina	Beef, fresh	Antibiotics	8
Argentina	Beef, fresh	Avermectins	8
Argentina	Beef, fresh	Sulfonamides	8
Argentina	Beef, fresh	Chloramphenicol	8
Argentina	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Australia	Beef, fresh	CHC's/COP's/Phenylbutazone	168
Australia	Beef, fresh	Antibiotics	103
Australia	Beef, fresh	Sulfonamides	103
Australia	Beef, fresh	Avermectins	75
Australia	Lamb/Mutton, fresh	Antibiotics	47
Australia	Lamb/Mutton, fresh	Avermectins	47
Australia	Lamb/Mutton, fresh	Sulfonamides	47
Australia	Lamb/Mutton, fresh	CHC's/COP's/Phenylbutazone	47
Australia	Veal, fresh	Antibiotics	20
Australia	Veal, fresh	Arsenicals	20
Australia	Veal, fresh	Avermectins	20
Australia	Veal, fresh	CHC's/COP's/Phenylbutazone	20
Australia	Beef, fresh	Chloramphenicol	17
Australia	Goat, fresh	ANTIBIOTIC	8
Australia	Goat, fresh	Arsenicals	8
Australia	Goat, fresh	Avermectins	8
Australia	Goat, fresh	Sulfonamides	8
Australia	Pork, fresh	Antibiotics	8
Australia	Pork, fresh	Arsenicals	8
Australia	Pork, fresh	Avermectins	8
Australia	Pork, fresh	Sulfonamides	8
Australia	Pork, fresh	Ractopamine	8
Australia	Varied combination, processed	Sulfonamides	8
Australia	Veal, fresh	Chloramphenicol	8
Australia	Goat, fresh	CHC's/COP's/Phenylbutazone	8
Australia	Varied combination, processed	CHC's/COP's/Phenylbutazone	8
Australia	Pork, fresh	CHC's/COP's/Phenylbutazone	8
Austria	Pork, processed	Sulfonamides	8
Austria	Pork, processed	Arsenicals	8
Austria	Beef/Pork, processed	Arsenicals	8
Austria	Beef/Pork, processed	Sulfonamides	8

Table 9.3 - Continued
Summary
2003 FSIS NRP, Import Monitoring Plan

COUNTRY	Product	COMPOUND	NUMBER OF SAMPLES
Austria	Beef/Pork, processed	CHC's/COP's/Phenylbutazone	8
Austria	Pork, processed	CHC's/COP's/Phenylbutazone	8
Brazil	Beef, processed	Sulfonamides	71
Brazil	Beef, processed	CHC's/COP's/Phenylbutazone	71
Canada	Pork, fresh	Antibiotics	228
Canada	Pork, fresh	Arsenicals	228
Canada	Pork, fresh	Avermectins	228
Canada	Pork, fresh	Sulfonamides	228
Canada	Pork, fresh	CHC's/COP's/Phenylbutazone	228
Canada	Beef, fresh	CHC's/COP's/Phenylbutazone	169
Canada	Beef, fresh	Antibiotics	104
Canada	Beef, fresh	Sulfonamides	104
Canada	Beef, fresh	Avermectins	75
Canada	Pork, fresh	Ractopamine	45
Canada	Veal, fresh	CHC's/COP's/Phenylbutazone	34
Canada	Veal, fresh	Antibiotics	33
Canada	Veal, fresh	Arsenicals	33
Canada	Veal, fresh	Avermectins	33
Canada	Beef, fresh	Chloramphenicol	18
Canada	Chicken, fresh	Antibiotics	8
Canada	Chicken, fresh	Arsenicals	8
Canada	Chicken, fresh	Sulfonamides	8
Canada	Goat, fresh	ANTIBIOTIC	8
Canada	Goat, fresh	ARSENIC	8
Canada	Goat, fresh	Avermectins	8
Canada	Goat, fresh	Sulfonamides	8
Canada	Horse, fresh	Sulfonamides	8
Canada	Horse, fresh	Avermectins	8
Canada	Horse, fresh	Antibiotics	8
Canada	Lamb/Mutton, fresh	Antibiotics	8
Canada	Lamb/Mutton, fresh	Avermectins	8
Canada	Lamb/Mutton, fresh	Sulfonamides	8
Canada	Other fowl, fresh	Antibiotics	8
Canada	Other fowl, fresh	Arsenicals	8
Canada	Other fowl, fresh	Sulfonamides	8
Canada	Turkey, fresh	Antibiotics	8
Canada	Turkey, fresh	Arsenicals	8
Canada	Turkey, fresh	Sulfonamides	8

Table 9.3 - Continued
Summary
2003 FSIS NRP, Import Monitoring Plan

COUNTRY	Product	COMPOUND	NUMBER OF SAMPLES
Canada	Varied combination, processed	Sulfonamides	8
Canada	Veal, fresh	Chloramphenicol	8
Canada	Chicken, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Turkey, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Other fowl, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Varied combination, processed	CHC's/COP's/Phenylbutazone	8
Canada	Horse, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Lamb/Mutton, fresh	CHC's/COP's/Phenylbutazone	8
Canada	Goat, fresh	CHC's/COP's/Phenylbutazone	8
Costa Rica	Beef, fresh	Antibiotics	8
Costa Rica	Beef, fresh	Avermectins	8
Costa Rica	Beef, fresh	Sulfonamides	8
Costa Rica	Beef, fresh	Chloramphenicol	8
Costa Rica	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Croatia	Beef, processed	Sulfonamides	8
Croatia	Pork, processed	Sulfonamides	8
Croatia	Pork, processed	CHC's/COP's/Phenylbutazone	8
Denmark	Pork, fresh	Antibiotics	32
Denmark	Pork, fresh	Arsenicals	32
Denmark	Pork, fresh	Avermectins	32
Denmark	Pork, fresh	Sulfonamides	32
Denmark	Pork, fresh	CHC's/COP's/Phenylbutazone	32
Denmark	Pork, fresh	Ractopamine	8
Finland	Pork, fresh	Antibiotics	8
Finland	Pork, fresh	Arsenicals	8
Finland	Pork, fresh	Avermectins	8
Finland	Pork, fresh	Sulfonamides	8
Finland	Pork, fresh	Ractopamine	8
Finland	Pork, fresh	CHC's/COP's/Phenylbutazone	8
France	Beef, processed	Sulfonamides	8
France	Beef/Pork, processed	Arsenicals	8
France	Beef/Pork, processed	Sulfonamides	8
France	Chicken, processed	Arsenicals	8
France	Chicken, processed	Sulfonamides	8
France	Mutton/lamb, processed	Sulfonamides	8
France	Other fowl, fresh	Antibiotics	8
France	Other fowl, fresh	Arsenicals	8
France	Other fowl, fresh	Sulfonamides	8

Table 9.3 - Continued
Summary
2003 FSIS NRP, Import Monitoring Plan

COUNTRY	Product	COMPOUND	NUMBER OF SAMPLES
France	Pork, processed	Sulfonamides	8
France	Pork, processed	Arsenicals	8
France	Varied combination, processed	Sulfonamides	8
France	Veal, processed	Sulfonamides	8
France	Other fowl, fresh	CHC's/COP's/Phenylbutazone	8
France	Other fowl, processed	CHC's/COP's/Phenylbutazone	8
France	Veal, processed	CHC's/COP's/Phenylbutazone	8
France	Beef/Pork, processed	CHC's/COP's/Phenylbutazone	8
France	Lamb/Mutton, processed	CHC's/COP's/Phenylbutazone	8
France	Varied combination, processed	CHC's/COP's/Phenylbutazone	8
France	Pork, processed	CHC's/COP's/Phenylbutazone	8
France	Chicken, processed	CHC's/COP's/Phenylbutazone	8
France	Beef, processed	CHC's/COP's/Phenylbutazone	8
Germany	Pork, processed	Sulfonamides	8
Germany	Pork, processed	Arsenicals	8
Germany	Pork, processed	CHC's/COP's/Phenylbutazone	8
Honduras	Beef, fresh	Antibiotics	8
Honduras	Beef, fresh	Avermectins	8
Honduras	Beef, fresh	Sulfonamides	8
Honduras	Beef, fresh	Chloramphenicol	8
Honduras	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Hungary	Pork, processed	Sulfonamides	8
Hungary	Pork, processed	Arsenicals	8
Hungary	Pork, processed	CHC's/COP's/Phenylbutazone	8
Iceland	Lamb/Mutton, fresh	Antibiotics	8
Iceland	Lamb/Mutton, fresh	Avermectins	8
Iceland	Lamb/Mutton, fresh	Sulfonamides	8
Iceland	Lamb/Mutton, fresh	CHC's/COP's/Phenylbutazone	8
Ireland	Pork, fresh	Antibiotics	8
Ireland	Pork, fresh	Arsenicals	8
Ireland	Pork, fresh	Avermectins	8
Ireland	Pork, fresh	Sulfonamides	8
Ireland	Pork, fresh	Ractopamine	8
Ireland	Pork, fresh	CHC's/COP's/Phenylbutazone	8
Israel	Chicken, processed	Arsenicals	8
Israel	Chicken, processed	Sulfonamides	8
Israel	Other fowl, processed	Arsenicals	8
Israel	Turkey, processed	Arsenicals	8

Table 9.3 - Continued
Summary
2003 FSIS NRP, Import Monitoring Plan

COUNTRY	Product	COMPOUND	NUMBER OF SAMPLES
Israel	Turkey, processed	Sulfonamides	8
Israel	Turkey, processed	CHC's/COP's/Phenylbutazone	8
Israel	Other fowl, processed	CHC's/COP's/Phenylbutazone	8
Israel	Chicken, processed	CHC's/COP's/Phenylbutazone	8
Italy	Beef, processed	Sulfonamides	8
Italy	Pork, processed	Sulfonamides	8
Italy	Pork, processed	Arsenicals	8
Italy	Pork, processed	CHC's/COP's/Phenylbutazone	8
Italy	Beef, processed	CHC's/COP's/Phenylbutazone	8
Mexico	Beef, fresh	Antibiotics	8
Mexico	Beef, fresh	Avermectins	8
Mexico	Beef, fresh	Sulfonamides	8
Mexico	Beef, fresh	Chloramphenicol	8
Mexico	Beef, processed	Sulfonamides	8
Mexico	Chicken, processed	Arsenicals	8
Mexico	Chicken, processed	Sulfonamides	8
Mexico	Pork, fresh	Antibiotics	8
Mexico	Pork, fresh	Arsenicals	8
Mexico	Pork, fresh	Avermectins	8
Mexico	Pork, fresh	Sulfonamides	8
Mexico	Pork, fresh	Ractopamine	8
Mexico	Turkey, processed	Arsenicals	8
Mexico	Turkey, processed	Sulfonamides	8
Mexico	Turkey, processed	CHC's/COP's/Phenylbutazone	8
Mexico	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Mexico	Pork, fresh	CHC's/COP's/Phenylbutazone	8
Mexico	Chicken, processed	CHC's/COP's/Phenylbutazone	8
Netherlands	Beef/Pork, processed	Arsenicals	8
Netherlands	Beef/Pork, processed	Sulfonamides	8
Netherlands	Pork, processed	Sulfonamides	8
Netherlands	Pork, processed	Arsenicals	8
Netherlands	Beef/Pork, processed	CHC's/COP's/Phenylbutazone	8
Netherlands	Pork, processed	CHC's/COP's/Phenylbutazone	8
New Zealand	Beef, fresh	CHC's/COP's/Phenylbutazone	74
New Zealand	Beef, fresh	Antibiotics	45
New Zealand	Beef, fresh	Sulfonamides	45
New Zealand	Veal, fresh	Antibiotics	37
New Zealand	Veal, fresh	Arsenicals	37

Table 9.3 - Continued
Summary
2003 FSIS NRP, Import Monitoring Plan

COUNTRY	Product	COMPOUND	NUMBER OF SAMPLES
New Zealand	Veal, fresh	CHC's/COP's/Phenylbutazone	36
New Zealand	Beef, fresh	Avermectins	33
New Zealand	Lamb/Mutton, fresh	Antibiotics	19
New Zealand	Lamb/Mutton, fresh	Avermectins	19
New Zealand	Lamb/Mutton, fresh	Sulfonamides	19
New Zealand	Lamb/Mutton, fresh	CHC's/COP's/Phenylbutazone	19
New Zealand	Beef, fresh	Chloramphenicol	8
New Zealand	Goat, fresh	ANTIBIOTIC	8
New Zealand	Goat, fresh	ARSENIC	8
New Zealand	Goat, fresh	Avermectins	8
New Zealand	Goat, fresh	Sulfonamides	8
New Zealand	Other fowl, fresh	Antibiotics	8
New Zealand	Other fowl, fresh	Arsenicals	8
New Zealand	Other fowl, fresh	Sulfonamides	8
New Zealand	Varied combination, processed	Sulfonamides	8
New Zealand	Veal, fresh	Chloramphenicol	8
New Zealand	Other fowl, fresh	CHC's/COP's/Phenylbutazone	8
New Zealand	Goat, fresh	CHC's/COP's/Phenylbutazone	8
New Zealand	Varied combination, processed	CHC's/COP's/Phenylbutazone	8
Nicaragua	Beef, fresh	Antibiotics	8
Nicaragua	Beef, fresh	Avermectins	8
Nicaragua	Beef, fresh	Sulfonamides	8
Nicaragua	Beef, fresh	Chloramphenicol	8
Nicaragua	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Northern Ireland	Pork, processed	Sulfonamides	8
Northern Ireland	Pork, processed	Arsenicals	8
Northern Ireland	Pork, processed	CHC's/COP's/Phenylbutazone	8
Poland	Pork, processed	Sulfonamides	11
Poland	Pork, processed	CHC's/COP's/Phenylbutazone	11
Poland	Pork, processed	Arsenicals	8
Spain	Pork, processed	Sulfonamides	8
Spain	Pork, processed	Arsenicals	8
Spain	Pork, processed	CHC's/COP's/Phenylbutazone	8
Sweden	Pork, fresh	Antibiotics	8
Sweden	Pork, fresh	Arsenicals	8
Sweden	Pork, fresh	Avermectins	8
Sweden	Pork, fresh	Sulfonamides	8
Sweden	Pork, fresh	Ractopamine	8

Table 9.3 - Continued
Summary
2003 FSIS NRP, Import Monitoring Plan

COUNTRY	Product	COMPOUND	NUMBER OF SAMPLES
Sweden	Pork, fresh	CHC's/COP's/Phenylbutazone	8
Switzerland	Beef, processed	CHC's/COP's/Phenylbutazone	8
Uruguay	Beef, fresh	Antibiotics	8
Uruguay	Beef, fresh	Avermectins	8
Uruguay	Beef, fresh	Sulfonamides	8
Uruguay	Beef, fresh	Chloramphenicol	8
Uruguay	Beef, processed	Sulfonamides	8
Uruguay	Lamb/Mutton, fresh	Antibiotics	8
Uruguay	Lamb/Mutton, fresh	Avermectins	8
Uruguay	Lamb/Mutton, fresh	Sulfonamides	8
Uruguay	Beef, fresh	CHC's/COP's/Phenylbutazone	8
Uruguay	Lamb/Mutton, fresh	CHC's/COP's/Phenylbutazone	8
Total			4749

Table 9.4
Number of Compounds/Production Class
2003 FSIS NRP, Import Residue Plan

Compound →	Anti-biotics	Arsen-icals	Aver-mectins	Chloram-phenicol	Racto-pamine	Sulfo-namides	CHC's/ COP's/ Phenyl-butazone	Total
Beef, fresh	300		231	91		300	459	1381
Beef, processed						95	111	206
Beef/Pork, processed		24				24	24	72
Chicken, fresh	8	8				8	8	32
Chicken, processed		24				24	24	72
Goat, fresh	24	24	24			24	24	120
Horse, fresh	8		8			8	8	32
Lamb/Mutton, fresh	90		90			90	90	360
Lamb/Mutton, processed						8	8	16
Other Fowl, fresh	24	24				24	24	96
Other Fowl, processed						8	8	16
Pork, fresh	300	300	300		93	300	300	1593
Pork, processed		72				83	83	238
Turkey, fresh	8	8				8	8	32
Turkey, processed		16				16	16	48
Varied combination, processed						32	32	64
Veal, fresh	90	90	53	24		90	90	347
Veal, processed						8	8	16
Total	852	598	706	115	93	1068	1309	4741

Table 9.5
Number of Samples/Country/Product Class
2003 FSIS NRP, Import Monitoring Plan

	Beef, fresh	Beef, processed	Beef/Pork, processed	Chicken, fresh	Chicken, processed	Goat, fresh	Mutton/Lamb, fresh	Mutton/Lamb, processed	Other Fowl, fresh	Other Fowl, processed	Pork, fresh	Pork, processed	Turkey, fresh	Turkey, processed	Varied combination, processed	Veal, fresh	Veal, processed	Total
Argentina	40																	40
Australia	466					40	188				48				16	88		846
Austria																		48
Brazil		142																142
Canada	470			32		32	32		32		1185		32		16	141		2004
Costa Rica	40																	40
Croatia		8										16						24
Denmark											168							48
Finland											48							176
France		16	24		24		16		32			24			16		16	168
Germany												24						24
Honduras	40																	40
Hungary												24						24
Iceland								32										32
Ireland											48							48
Israel					24				24					24				72
Italy		16										24						40
Mexico	40	8			24						48			24				144
Netherlands		24										24						48
New Zealand	205					40	76		32						16	118		487
Northern																		40
Nicaragua	40																	24
Poland												30						30
Spain												24						24
Sweden											48							48
Switzerland		8																8
Uruguay	40	8					32											80
Total	1381	230	24	32	72	112	344	32	96	24	1593	190	32	48	64	347	16	4749

**Table 9.6
Combined Summary
2003 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects and Import Monitoring Plan**

LAB	ANALYSIS	# SAMPLES SCHEDULED	# Domestic Samples	# Imported Samples	NOTES
MWL	Antibiotics	7297	6445	852	Domestic: all production classes except egg products Imported: all fresh product classes
EL	Arsenicals	4578	3980	598	Domestic: beef cows, goats, all porcine production classes, and all avian production classes (including egg products) except ratites and squab Imported: fresh poultry, pork, and goats, and processed pork, beef/pork, chicken, and turkey
EL	Avermectins	4586	3880	706	Domestic: ratites and all non-avian production classes Imported: all non-avian fresh product classes
WL	CHC's/COP's/ phenylbutazone	7584	6275	1309	Domestic: all production classes Imported: all product classes
EL	Chloramphenicol	1015	900	115	Domestic: 300 each, dairy cows, formula-fed veal, and non-formula veal Imported: 91 fresh beef and 24 fresh veal
WL, FDA-NCTR	Clenbuterol and other unapproved beta agonists	830	830	0	Domestic: 300 each market hogs and steers 230 formula-fed veal
MWL	DES/zeranol	360	360	0	Domestic: 360 formula-fed veal
ARS-RRVARC	Dioxins	500	500	0	Domestic: 136 steers/heifers, 136 market hogs, 144 young chickens, 84 and young turkeys
MWL	Flunixin	460	460	0	Domestic: 300 dairy cows and 160 horses
MWL	MGA	300	300	0	Domestic: 300 heifers
MWL	Ractopamine	623	530	93	Domestic: 300 market hogs and 230 steers Imported: 93 fresh pork
EL, MWL	Sulfonamides	6723	5655	1068	Domestic: all production classes except sheep and rabbits Imported: all product classes
	TOTAL, ALL LABORATORIES	34856	30115	4741	

Key:

CHC = Chlorinated hydrocarbon; COP = Chlorinated organophosphate

EL = FSIS Eastern Laboratory, Athens, GA; MWL = FSIS Midwestern Laboratory, St. Louis, MO; WL = FSIS Western Laboratory, Alameda, CA

ARS-RRVARC = Agricultural Research Service, Red River Valley Agricultural Research Center, Fargo, ND

FDA-NCTR= Food and Drug Administration, National Center for Toxicology Research, Jefferson, AR

SECTION 10. ADJUSTMENTS TO THE 2002 FSIS NATIONAL RESIDUE PROGRAM

The following changes were made to the originally scheduled 2002 FSIS National Residue Program (NRP):

1. The tentatively scheduled sampling for clenbuterol, carbodox, fluoroquinolones and MGA were not implemented because of methodological problems.
2. Sampling for the Dioxin Special Project did not start until May 2002. Sampling will not be completed until April 2003.
3. Sampling for flunixin started in June 2002 and not in January 2002 as previously scheduled. Samples are currently being analyzed.
4. Starting August 1, 2002, .150 formula-fed veal were scheduled for DES/Zeranol analysis in the 2002 Domestic Monitoring Plan