

Section 10

The 2004 FSIS National Residue Program Domestic and Import Monitoring Plans

Domestic 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 and import residue sampling plans) that are founded on a public health-based prioritization process. Each system incorporates a structured planning process that employs risk assessment formulas and uses the best available data to develop relative rankings within these formulas. These systems are 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 address the public health concerns presented by a comprehensive range of veterinary drugs and pesticides in the egg products, 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 10.1, *Detailed Sampling Plan, 2004 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. The categories are: “Monitoring”; and “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 10.2, *Summary, 2004 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects*.

Import Monitoring Plan

The final detailed import plan sample numbers for all compounds (veterinary drugs and pesticides), in all production classes and all countries, are listed in Table 10.3, *Summary, 2004 FSIS NRP, Import Monitoring Plan*. The summary of the total number of samples per compound per production class is listed in Table 10.4 *Number of Compounds/Product Class, 2004 FSIS NRP, Import Monitoring Plan*. In Table 10.5, *Number of Samples/Country/Product Class, 2004 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 10.6, *Combined Summary, 2004 FSIS NRP, Domestic Monitoring Plan, Exploratory Projects and Import Monitoring Plan*.

**Table 10.1
Detailed Sampling Plan
2004 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects**

Analysis	Lab	Production Class	Number of Samples	Plan Type
Antibiotics by Bioassay	MWL	Market hogs	1,000	Monitoring
Antibiotics by Bioassay	MWL	Dairy cows	460	Monitoring
Antibiotics by Bioassay	MWL	Formula-fed veal	90	Monitoring
Antibiotics by Bioassay	MWL	Young chickens	300	Monitoring
Antibiotics by Bioassay	MWL	Steers		Monitoring
Antibiotics by Bioassay	MWL	Heifers	460	Monitoring
Antibiotics by Bioassay	MWL	Young turkeys		Monitoring
Antibiotics by Bioassay	MWL	Bob veal	300	Monitoring
Antibiotics by Bioassay	MWL	Horses		Monitoring
Antibiotics by Bioassay	MWL	Beef cows	300	Monitoring
Antibiotics by Bioassay	MWL	Sows	300	Monitoring
Antibiotics by Bioassay	MWL	Lambs	230	Monitoring
Antibiotics by Bioassay	MWL	Roaster pigs	300	Monitoring
Antibiotics by Bioassay	MWL	Bison		Monitoring
Antibiotics by Bioassay	MWL	Ratites		Monitoring
Antibiotics by Bioassay	MWL	Rabbits		Monitoring
Antibiotics by Bioassay	MWL	Bulls		Monitoring
Antibiotics by Bioassay	MWL	Mature chickens	230	Monitoring
Antibiotics by Bioassay	MWL	Ducks		Monitoring
Antibiotics by Bioassay	MWL	Boars/stags	230	Monitoring
Antibiotics by Bioassay	MWL	Mature turkeys		Monitoring
Antibiotics by Bioassay	MWL	Goats		Monitoring
Antibiotics by Bioassay	MWL	Heavy calves	90	Monitoring
Antibiotics by Bioassay	MWL	Sheep		Monitoring
Antibiotics by Bioassay	MWL	Non-formula-fed veal	230	Monitoring
Antibiotics by Bioassay	MWL	Geese		Monitoring
Antibiotics by Bioassay	MWL	Squab		Monitoring
Total Antibiotics by Bioassay			4,520	

Table 10.1 - Continued
Detailed Sampling Plan
2004 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects

Analysis	Lab	Production Class	Number of Samples	Plan Type
Avermectins	EL	Steers		Monitoring
Avermectins	EL	Horses		Monitoring
Avermectins	EL	Market hogs		Monitoring
Avermectins	EL	Heifers		Monitoring
Avermectins	EL	Dairy cows		Monitoring
Avermectins	EL	Beef cows	300	Monitoring
Avermectins	EL	Bulls	300	Monitoring
Avermectins	EL	Lambs		Monitoring
Avermectins	EL	Goats	300	Monitoring
Avermectins	EL	Sows		Monitoring
Avermectins	EL	Formula-fed veal		Monitoring
Avermectins	EL	Bob veal		Monitoring
Avermectins	EL	Heavy calves		Monitoring
Avermectins	EL	Roaster pigs		Monitoring
Avermectins	EL	Bison		Monitoring
Avermectins	EL	Ratites		Monitoring
Avermectins	EL	Non-formula-fed veal	90	Monitoring
Avermectins	EL	Boars/stags		Monitoring
Avermectins	EL	Sheep	90	Monitoring
Total Avermectins			1,080	
Arsenicals	EL	Young chickens	460	Monitoring
Arsenicals	EL	Young turkeys	300	Monitoring
Arsenicals	EL	Egg products		Monitoring
Arsenicals	EL	Market hogs		Monitoring
Arsenicals	EL	Beef cows		Monitoring
Arsenicals	EL	Goats	90	Monitoring
Arsenicals	EL	Sows		Monitoring
Arsenicals	EL	Mature chickens		Monitoring
Arsenicals	EL	Ducks		Monitoring
Arsenicals	EL	Roaster pigs		Monitoring
Arsenicals	EL	Boars/stags		Monitoring
Arsenicals	EL	Mature turkeys		Monitoring
Arsenicals	EL	Geese		Monitoring
Total Arsenicals	EL		850	

Table 10.1 - Continued
Detailed Sampling Plan
2004 FSIS NRP, Monitoring Plan and Exploratory Projects

Analysis	Lab	Production Class	Number of Samples	Plan Type
Sulfonamides	MWL or EL	Market hogs	1,000	Monitoring
Sulfonamides	MWL or EL	Steers	300	Monitoring
Sulfonamides	EL	Egg products		Monitoring
Sulfonamides	MWL or EL	Dairy cows	300	Monitoring
Sulfonamides	MWL or EL	Beef cows	300	Monitoring
Sulfonamides	MWL or EL	Sows		Monitoring
Sulfonamides	MWL or EL	Bulls	300	Monitoring
Sulfonamides	MWL or EL	Mature chickens		Monitoring
Sulfonamides	MWL or EL	Lambs	230	Monitoring
Sulfonamides	MWL or EL	Formula-fed veal	90	Monitoring
Sulfonamides	MWL or EL	Boars/stags	300	Monitoring
Sulfonamides	MWL or EL	Mature turkeys	45	Monitoring
Sulfonamides	MWL or EL	Bob veal	300	Monitoring
Sulfonamides	MWL or EL	Roaster pigs	300	Monitoring
Sulfonamides	MWL or EL	Bison		Monitoring
Sulfonamides	MWL or EL	Ducks		Monitoring
Sulfonamides	MWL or EL	Goats		Monitoring
Sulfonamides	MWL or EL	Horses		Monitoring
Sulfonamides	MWL or EL	Heavy calves	230	Monitoring
Sulfonamides	MWL or EL	Ratites		Monitoring
Sulfonamides	MWL or EL	Non-formula-fed veal	230	Monitoring
Sulfonamides	MWL or EL	Geese		Monitoring
Sulfonamides	MWL or EL	Squab		Monitoring
Total Sulfonamides			3,925	

Table 10.1 - Continued
Detailed Sampling Plan
2004 FSIS NRP, Monitoring Plan and Exploratory Projects

Analysis	Lab	Production Class	Number of Samples	Plan Type
CHC's/COP's/Phenylbutazone	WL	Young chickens	460	Monitoring
CHC's/COP's/Phenylbutazone	WL	Market hogs	460	Monitoring
CHC's/COP's/Phenylbutazone	WL	Steers	460	Monitoring
CHC's/COP's/Phenylbutazone	WL	Heifers	460	Monitoring
CHC's/COP's/Phenylbutazone	WL	Young turkeys	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Egg products	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Dairy cows	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Beef cows	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Sows	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Bulls	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Mature chickens	90	Monitoring
CHC's/COP's/Phenylbutazone	WL	Roaster pigs	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Lambs	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Formula-fed veal	230	Monitoring
CHC's/COP's/Phenylbutazone	WL	Ducks		Monitoring
CHC's/COP's/Phenylbutazone	WL	Boars/stags	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Mature turkeys	90	Monitoring
CHC's/COP's/Phenylbutazone	WL	Goats	300	Monitoring
CHC's/COP's/Phenylbutazone	WL	Bob veal		Monitoring
CHC's/COP's/Phenylbutazone	WL	Horses		Monitoring
CHC's/COP's/Phenylbutazone	WL	Heavy calves	230	Monitoring
CHC's/COP's/Phenylbutazone	WL	Bison		Monitoring
CHC's/COP's/Phenylbutazone	WL	Sheep	230	Monitoring
CHC's/COP's/Phenylbutazone	WL	Ratites		Monitoring
CHC's/COP's/Phenylbutazone	WL	Non-formula-fed veal	230	Monitoring
CHC's/COP's/Phenylbutazone	WL	Geese		Monitoring
CHC's/COP's/Phenylbutazone	WL	Rabbits		Monitoring
CHC's/COP's/Phenylbutazone	WL	Squab		Monitoring
Total CHC's/COP's/Phenylbutazone			5,940	

**Table 10.1 - Continued
Detailed Sampling Plan
2004 FSIS NRP, Monitoring Plan and Exploratory Projects**

Analysis	Lab	Production Class	Number of Samples	Plan Type
Chloramphenicol	EL	Dairy cows	230	Monitoring
Chloramphenicol	EL	Formula-fed veal	90	Monitoring
Chloramphenicol	EL	Non-formula-fed veal	90	Monitoring
Chloramphenicol	EL	Young Chickens	230	Monitoring
Chloramphenicol	EL	Mature Chickens	90	Monitoring
Chloramphenicol	EL	Young Turkeys	90	Monitoring
Chloramphenicol	EL	Mature Turkeys	90	Monitoring
Total Chloramphenicol			910	
Clenbuterol and other beta agonists*	WL	Formula-fed veal	230	Monitoring ¹
Clenbuterol and other beta agonists*	WL	Market hogs	300	Monitoring ¹
Clenbuterol and other beta agonists*	WL	Steers	300	Monitoring ¹
Clenbuterol and other beta ags. *			830	
Flunixin	MWL	Dairy cows	300	Monitoring ¹
Flunixin	MWL	Dairy cows	840	Exploratory
Total Flunixin			1,140	
Lead and Cadmium	EL	Dairy cows	300	Exploratory
	EL	Boars/Stags	90	Exploratory
	EL	Mature chickens	230	Exploratory
Total Lead and Cadmium			620	
MGA (melengesterol acetate)	WL	Heifers	300	Monitoring ¹
Total MGA			300	
Phenylbutazone (ELISA)	WL	Dairy cows	300	Monitoring
Phenylbutazone (ELISA)	WL	Beef cows	230	Monitoring
Phenylbutazone (ELISA)	WL	Heifers	90	Monitoring
Phenylbutazone (ELISA)	WL	Steers	90	Monitoring
Phenylbutazone (ELISA)	WL	Heavy calves	90	Monitoring
Total Phenylbutazone (ELISA)			800	

*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 clenbuterol (bovine and porcine) and has been extended to salbutamol and cimaterol (bovine). The method has also demonstrated the ability to detect other beta agonists, including ractopamine.

¹ Because of laboratory scheduling requirements, these sampling plans will be conducted for less than a full calendar year.

Table 10.1 - Continued
Detailed Sampling Plan
2004 FSIS NRP, Monitoring Plan and Exploratory Projects

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; FDA = Food and
Drug Administration, National Center for Toxicological Research, Jefferson, AR
ELISA = Enzyme Linked Immunoassay
MGA = Melengesterol acetate

Table 10.2 - Continued
Summary
2004 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects

Production Class	Antibiotics	Arsenicals	Avermectins	CHCs/COPs/ Phenylbutazone	Phenylbutazone (ELISA)
Bulls			300	300	
Beef cows	300		300	300	230
Dairy cows	460			300	300
Heifers	460			460	90
Steers				460	90
Bob veal	300				
Formula-fed veal	90			230	
Non-formula-fed veal	230			230	
Heavy calves	90			230	90
Subtotal, Cattle	1,930	0	600	2,510	800
Market hogs	1,000			460	
Roaster pigs	300			300	
Boars/Stags	230			300	
Sows	300			300	
Subtotal, Swine	1,830	0	0	1,360	0
Sheep			90	230	
Lambs	230			300	
Subtotal, Ovine	230	0	90	530	0
Goats		90	300	300	
Horses					
Bison					
Subtotal, Other Livestock	0	90	300	300	0
Total, All Livestock	3,990	90	1,080	4,700	800
Young chickens	300	460		460	
Mature chickens	230			90	
Young turkeys		300		300	
Mature turkeys				90	
Ducks					
Geese					
Ratites					
Squab					
Subtotal, Poultry	530	760	0	940	0
Rabbits					
Egg products				300	
Total, All Production Classes	4,520	850	1,080	5,940	800

Table 10.2 - Continued
Summary
2004 FSIS NRP, Domestic Monitoring Plan and Exploratory Projects

Production Class	Chloramphenicol	Clenbuterol (and other beta agonists)	Flunixin	Lead and Cadmium	MGA	Sulfonamides
Bulls						300
Beef cows						300
Dairy cows	230		300	300		300
Heifers					300	
Steers		300				300
Bob veal						300
Formula-fed veal	90	230				90
Non-formula-fed veal	90					230
Heavy calves						230
Subtotal, Cattle	410	530	300	300	300	2,050
Market hogs		300				1000
Roaster pigs						300
Boars/Stags				90		300
Sows						
Subtotal, Swine	0	300	0	90	0	1,600
Sheep						
Lambs						230
Subtotal, Ovine	0	0	0	0	0	230
Goats						
Horses						
Bison						
Subtotal, Other Livestock	0	0	0	0	0	0
Total, All Livestock	410	830	300	390	300	3,880
Young chickens	230					
Mature chickens	90			230		
Young turkeys	90					
Mature turkeys	90					45
Ducks						
Geese						
Ratites						
Squab						
Subtotal, Poultry	500	0	0	230	0	45
Rabbits						
Egg products						
Total, All Production Classes	910	830	300	620	300	3,925

Table 10.3
Summary
2004 FSIS NRP, Import Monitoring Plan

COUNTRY	PRODUCT	COMPOUND	NUMBER OF SAMPLES
Argentina	Beef Processed	Sulfonamides	15
Argentina	Beef Processed	CHCs/COPs/Phenylbutazone	27
Australia	Beef Fresh	Antibiotics	68
Australia	Beef Fresh	Avermectins	109
Australia	Beef Fresh	Sulfonamides	68
Australia	Beef Fresh	Chloramphenicol	13
Australia	Beef Fresh	CHCs/COPs/Phenylbutazone	108
Australia	Beef Processed	CHCs/COPs/Phenylbutazone	0
Australia	Beef/Pork Processed	Arsenicals	8
Australia	Beef/Pork Processed	Sulfonamides	8
Australia	Beef/Pork Processed	CHCs/COPs/Phenylbutazone	8
Australia	Goat Fresh	Antibiotics	8
Australia	Goat Fresh	Arsenicals	8
Australia	Goat Fresh	Sulfonamides	8
Australia	Goat Fresh	CHCs/COPs/Phenylbutazone	8
Australia	Mutton/Lamb Fresh	Antibiotics	50
Australia	Mutton/Lamb Fresh	Avermectins	50
Australia	Mutton/Lamb Fresh	Sulfonamides	50
Australia	Mutton/Lamb Fresh	CHCs/COPs/Phenylbutazone	50
Australia	Pork Processed	Sulfonamides	8
Australia	Pork Processed	Arsenicals	8
Australia	Pork Processed	CHCs/COPs/Phenylbutazone	8
Australia	Varied combination, Processed	Sulfonamides	8
Australia	Varied combinations	CHCs/COPs/Phenylbutazone	8
Australia	Veal Fresh	Antibiotics	8
Australia	Veal Fresh	Avermectins	8
Australia	Veal Fresh	Sulfonamides	8
Australia	Veal Fresh	Chloramphenicol	8
Australia	Veal Fresh	CHCs/COPs/Phenylbutazone	7
Austria	Pork Processed	Sulfonamides	8
Austria	Pork Processed	Arsenicals	8
Austria	Pork Processed	CHCs/COPs/Phenylbutazone	8

Table 10.3 - Continued
Summary
2004 FSIS NRP, Import Monitoring Plan

COUNTRY	PRODUCT	COMPOUND	NUMBER OF SAMPLES
Brazil	Beef Processed	Sulfonamides	38
Brazil	Beef Processed	CHCs/COPs/Phenylbutazone	69
Canada	Beef Fresh	Antibiotics	133
Canada	Beef Fresh	Avermectins	215
Canada	Beef Fresh	Sulfonamides	133
Canada	Beef Fresh	Chloramphenicol	25
Canada	Beef Fresh	CHCs/COPs/Phenylbutazone	212
Canada	Chicken Fresh	Antibiotics	8
Canada	Chicken Fresh	Arsenicals	8
Canada	Chicken Fresh	CHCs/COPs/Phenylbutazone	8
Canada	Chicken Processed	Sulfonamides	8
Canada	Mutton/Lamb Fresh	Antibiotics	8
Canada	Mutton/Lamb Fresh	Avermectins	8
Canada	Mutton/Lamb Fresh	Sulfonamides	8
Canada	Mutton/Lamb Fresh	CHCs/COPs/Phenylbutazone	8
Canada	Pork Fresh	Antibiotics	217
Canada	Pork Fresh	Arsenicals	161
Canada	Pork Fresh	Avermectins	217
Canada	Pork Fresh	Sulfonamides	217
Canada	Pork Fresh	CHCs/COPs/Phenylbutazone	161
Canada	Varied combination, Processed	Sulfonamides	8
Canada	Varied combinations	CHCs/COPs/Phenylbutazone	8
Canada	Veal Fresh	Antibiotics	8
Canada	Veal Fresh	Avermectins	8
Canada	Veal Fresh	Sulfonamides	8
Canada	Veal Fresh	Chloramphenicol	8
Canada	Veal Fresh	CHCs/COPs/Phenylbutazone	47
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	CHCs/COPs/Phenylbutazone	8
Costarica	Turkey Processed	Arsenicals	8
Costarica	Turkey Processed	Sulfonamides	8
Costarica	Turkey Processed	CHCs/COPs/Phenylbutazone	8
Crotalia	Pork Processed	Sulfonamides	8
Crotalia	Pork Processed	Arsenicals	8
Crotalia	Pork Processed	CHCs/COPs/Phenylbutazone	8

Table 10.3 - Continued
Summary
2004 FSIS NRP, Import Monitoring Plan

COUNTRY	PRODUCT	COMPOUND	NUMBER OF SAMPLES
Czechoslovakia	Pork Processed	Sulfonamides	8
Czechoslovakia	Pork Processed	Arsenicals	8
Czechoslovakia	Pork Processed	CHCs/COPs/Phenylbutazone	8
Denmark	Pork Fresh	Antibiotics	51
Denmark	Pork Fresh	Arsenicals	37
Denmark	Pork Fresh	Avermectins	51
Denmark	Pork Fresh	Sulfonamides	51
Denmark	Pork Fresh	CHCs/COPs/Phenylbutazone	38
Finland	Pork Fresh	Antibiotics	8
Finland	Pork Fresh	Arsenicals	8
Finland	Pork Fresh	Avermectins	8
Finland	Pork Fresh	Sulfonamides	8
Finland	Pork Fresh	CHCs/COPs/Phenylbutazone	8
France	Beef Processed	Sulfonamides	8
France	Beef Processed	CHCs/COPs/Phenylbutazone	8
France	Chicken Processed	Arsenicals	8
France	Chicken Processed	Sulfonamides	8
France	Chicken Processed	CHCs/COPs/Phenylbutazone	8
France	Pork Fresh	Antibiotics	8
France	Pork Fresh	Arsenicals	8
France	Pork Fresh	Avermectins	8
France	Pork Fresh	Sulfonamides	8
France	Pork Fresh	CHCs/COPs/Phenylbutazone	8
France	Varied combination, Processed	Sulfonamides	8
France	Varied combinations	CHCs/COPs/Phenylbutazone	8
Germany	Pork Processed	Sulfonamides	8
Germany	Pork Processed	Arsenicals	8
Germany	Pork Processed	CHCs/COPs/Phenylbutazone	8
Germany	Turkey Processed	Arsenicals	8
Germany	Turkey Processed	Sulfonamides	8
Germany	Turkey Processed	CHCs/COPs/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	CHCs/COPs/Phenylbutazone	8
Hungary	Pork Processed	Sulfonamides	8
Hungary	Pork Processed	Arsenicals	8

Table 10.3 - Continued
Summary
2004 FSIS NRP, Import Monitoring Plan

COUNTRY	PRODUCT	COMPOUND	NUMBER OF SAMPLES
Hungary	Pork Processed	CHCs/COPs/Phenylbutazone	8
Iceland	Mutton/Lamb Fresh	Antibiotics	8
Iceland	Mutton/Lamb Fresh	Avermectins	8
Iceland	Mutton/Lamb Fresh	Sulfonamides	8
Iceland	Mutton/Lamb Fresh	CHCs/COPs/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	CHCs/COPs/Phenylbutazone	8
Israel	Chicken Processed	Arsenicals	8
Israel	Chicken Processed	Sulfonamides	8
Israel	Chicken Processed	CHCs/COPs/Phenylbutazone	8
Italy	Pork Processed	Sulfonamides	8
Italy	Pork Processed	Arsenicals	8
Italy	Pork Processed	CHCs/COPs/Phenylbutazone	8
Italy	Turkey Processed	Arsenicals	8
Italy	Turkey Processed	Sulfonamides	8
Italy	Turkey Processed	CHCs/COPs/Phenylbutazone	8
Mexico	Beef Fresh	Antibiotics	8
Mexico	Beef Fresh	Avermectins	8
Mexico	Beef Fresh	Sulfonamides	8
Mexico	Beef Fresh	Chloramphenicol	8
Mexico	Beef Fresh	CHCs/COPs/Phenylbutazone	8
Mexico	Pork Fresh	Antibiotics	8
Mexico	Pork Fresh	Arsenicals	8
Mexico	Pork Fresh	Avermectins	8
Mexico	Pork Fresh	Sulfonamides	8
Mexico	Pork Fresh	CHCs/COPs/Phenylbutazone	8
Mexico	Varied combination, Processed	Sulfonamides	8
Mexico	Varied combinations	CHCs/COPs/Phenylbutazone	8
Netherlands	Pork Processed	Sulfonamides	8
Netherlands	Pork Processed	Arsenicals	8
Netherlands	Pork Processed	CHCs/COPs/Phenylbutazone	8
Netherlands	Turkey Processed	Arsenicals	8
Netherlands	Turkey Processed	CHCs/COPs/Phenylbutazone	8
Netherlands	Varied combination, Processed	Sulfonamides	8
New Zealand	Beef Fresh	Antibiotics	60

Table 10.3 - Continued
Summary
2004 FSIS NRP, Import Monitoring Plan

COUNTRY	PRODUCT	COMPOUND	NUMBER OF SAMPLES
New Zealand	Beef Fresh	Avermectins	97
New Zealand	Beef Fresh	Sulfonamides	60
New Zealand	Beef Fresh	Chloramphenicol	12
New Zealand	Beef Fresh	CHCs/COPs/Phenylbutazone	96
New Zealand	Chicken Fresh	Sulfonamides	8
New Zealand	Goat Fresh	Sulfonamides	24
New Zealand	Goat Fresh	Antibiotics	8
New Zealand	Goat Fresh	Arsenicals	8
New Zealand	Goat Fresh	CHCs/COPs/Phenylbutazone	8
New Zealand	Mutton/Lamb Fresh	Antibiotics	24
New Zealand	Mutton/Lamb Fresh	Avermectins	24
New Zealand	Mutton/Lamb Fresh	CHCs/COPs/Phenylbutazone	24
New Zealand	Varied combination, Processed	Sulfonamides	8
New Zealand	Varied combinations	CHCs/COPs/Phenylbutazone	8
New Zealand	Veal Fresh	Antibiotics	8
New Zealand	Veal Fresh	Avermectins	8
New Zealand	Veal Fresh	Sulfonamides	8
New Zealand	Veal Fresh	CHCs/COPs/Phenylbutazone	36
New Zealand	Veal Processed	Chloramphenicol	8
Nicaragua	Beef Fresh	Antibiotics	8
Nicaragua	Beef Fresh	Avermectins	8
Nicaragua	Beef Fresh	Sulfonamides	8
Nicaragua	Beef Fresh	Chloramphenicol	8
Nicaragua	Beef Fresh	CHCs/COPs/Phenylbutazone	8
Poland	Pork Processed	Sulfonamides	8
Poland	Pork Processed	Arsenicals	8
Poland	Pork Processed	CHCs/COPs/Phenylbutazone	8
Spain	Beef/Pork Processed	Arsenicals	8
Spain	Pork Processed	Sulfonamides	8
Spain	Pork Processed	CHCs/COPs/Phenylbutazone	8
Spain	Pork Processed	Arsenicals	8
United Kingdom	Pork Fresh	Antibiotics	8
United Kingdom	Pork Fresh	Arsenicals	8
United Kingdom	Pork Fresh	Avermectins	8
United Kingdom	Pork Fresh	CHCs/COPs/Phenylbutazone	8
Uruguay	Beef Fresh	Antibiotics	8
Uruguay	Beef Fresh	Avermectins	8
Uruguay	Beef Fresh	Sulfonamides	8

Table 10.3 - Continued
Summary
2004 FSIS NRP, Import Monitoring Plan

COUNTRY	PRODUCT	COMPOUND	NUMBER OF SAMPLES
Uruguay	Beef Fresh	Chloramphenicol	8
Uruguay	Beef Fresh	CHCs/COPs/Phenylbutazone	8
Uruguay	Varied combinations	Sulfonamides	8
Uruguay	Varied combinations	CHCs/COPs/Phenylbutazone	8
			4321

Table 10.4
Number of Compounds/Production Class
2004 FSIS NRP, Import Residue Plan

COMPOUND/ PRODUCTION CLASS	AB	AS	AVM	CAP	SULFAs	CHC/COP/PHB	Total
Beef, Fresh	301		461	90	301	456	1609
Beef, Processed					61	104	165
Pork, Fresh	308	238	308		308	239	1401
Pork, Processed		80			80	80	240
Beef/Pork, Processed		8			8	8	24
Veal, Fresh	24		24	24	24	90	186
Veal Processed							0
Lamb/Mutton, Fresh	90		90		90	90	360
Lamb/Mutton, Processed							0
Goat, Fresh	16	16			16	16	64
Chicken, Fresh	8	8			8	8	32
Chicken, Processed		16			16	16	48
Turkey, Processed		32			32	32	96
Other Fowl, Fresh							0
Other Fowl, Processed							0
Varied combination, Processed					48	48	96
Eggs, Processed							0
Total/Country	747	398	883	114	992	1187	4321

AB=Antibiotics; AS=Arsenicals; AVM=Avermectins; CAP=Chloramphenicol; SULFAs=Sulfonamides;
 CHC/COP/PHB =Chlorinated hydrocarbons/Organophosphates/Phenylbutazone

Table 10.5
Number of Samples/Country/Product Class
2004 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, Processed	Varied combination, Processed	Veal, Fresh	Veal, Processed	Total
Argentina		42															42
Australia	366		24			32	200					24		16	39		701
Austria												24					24
Brazil		107															107
Canada	718			32			32				973			16	79		1850
Costa Rica	40												24				64
Croatia												24					24
Czechoslovakia												24					24
Denmark											228						228
Finland											40						40
France		16			24						40			16			96
Germany												24	24				48
Honduras	40																40
Hungary												24					24
Iceland							32										32
Ireland											40						40
Israel					24												24
Italy												24	24				48
Mexico	40										40			16			96
Netherlands												24	24	16			64
New Zealand	325					32	96							16	68		537
Nicaragua	40																40
Poland												24					24
Spain												24					24
Sweden																	
Switzerland																	
United Kingdom											40						40
Uruguay	40																40
Total	1609	165	24	32	48	64	360				1401	240	96	96	186		4321

**Table 10.6
Combined Summary
2004 FSIS NRP, Domestic Monitoring Plan, Exploratory Projects, and Import Monitoring Plan**

Lab	Analysis	Number of Scheduled Domestic Samples	Number of Scheduled Imported Samples	Number of Scheduled Samples for Exploratory Projects	Total Number of Samples	NOTES
MWL	Antibiotics	4,520	747	604	5,871	Domestic: all production classes except sheep, rabbits, ratites, geese, squab, horses, goats, ducks, steers, young turkeys, bulls, mature turkeys, and egg products Imported: all fresh product classes
EL	Arsenicals	850	398		1,248	Domestic: scheduled for young chickens, young turkeys, and goats Imported: All avian production classes; fresh goat and pork, processed pork and beef/pork
EL	Avermectins	1,080	883		1,963	Domestic: scheduled for beef cows, bulls, goats, non-formula fed veal, and sheep production classes Imported: all non-avian fresh product classes, except goats
WL	CHCs/COPs/ Phenylbutazone	5,940	1,187		7,127	Domestic: all domestic production classes except: minor species (rabbits, ratites, squab, geese, ducks, and bison); horses; and bob-veal Import: all import production classes
WL	Phenylbutazone by Immunoassay	800			800	Domestic: all production classes except horses, bob-veal, ducks, bison, ratites, geese, rabbits, and squab Import: all production classes except processed veal
EL	Chloramphenicol	910	114		1,024	Domestic: 230, 90, 90, 230, 90, 90, 90, 90 samples for dairy cows, formula-fed veal, non-formula-fed veal, young chickens, mature chickens, young turkeys and mature turkeys, respectively. Import: 90 samples for fresh beef and 24 samples for fresh veal
WL	Clenbuterol and other unapproved beta agonists	830				Domestic: 300, 230, and 300 samples are scheduled for steers, formula-fed veal, and market hogs. Confirmation done by FDA-NCTR Import: No samples scheduled
MWL	Flunixin	300		840	1,140	Domestic: 1,140 dairy cows
WL	MGA	300			300	Domestic: 300 heifers
EL, MWL	Sulfonamides	3,925	992		4,917	Domestic: all production classes except sheep and rabbits Imported: all product classes

Table 10.6 - Continued
Combined Summary
2004 FSIS NRP, Domestic Monitoring Plan, Exploratory Projects, and Import Monitoring Plan

Lab	Analysis	Number of Scheduled Domestic Samples	Number of Scheduled Imported Samples	Number of Scheduled Samples for Exploratory Projects	Total Number of Samples	NOTES
EL	Lead and Cadmium			620	620	Domestic: Dairy cows; boars/stags; mature chickens
Total		19,455	4,321	2,064	25,840	

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

Section 11

2004 FSIS National Residue Program Adjustments

The following changes were made to the originally scheduled 2003 FSIS National Residue Program (NRP):

1. Horse sample collection for monitoring was reduced to 90 samples due to reduced slaughtering volume.
2. Lead and Cadmium were added to the 2003 domestic monitoring program from October to December. A total of 62 monitoring samples were collected for the three month period.
3. The number of monitoring samples for avermectins was increased for steers, beef cows, dairy cows, sows, heifers and market hogs by 80, 80, 80, 35, 80 and 80, respectively, for a total of 435 samples.
4. The number of monitoring samples for sulfonamides was increased for steers, beef cows, dairy cows, sows, heifers, market hogs, boars and stags, young turkeys and mature chickens by 80, 35, 35, 80, 80, 80, 80, 80 and 70, respectively, for a total of 540 samples.