

Summary Table I
Status of AMDUCA Prohibited Drugs
2006 FSIS NRP – Domestic and Import Sampling

<i>AMDUCA¹ Prohibited Drug</i>	<i>Scheduled Samples</i>		<i>Total</i>
	<i>Domestic</i>	<i>Import</i>	
Avoparcin (glycopeptide)	Not in the 2006 NRP.	Not in the 2006 NRP.	
Chloramphenicol	230, 230, 230, 230 samples are scheduled for dairy cows, non-formula-fed veal, young chickens, and young turkeys, respectively.	199 samples are scheduled for cattle, chickens, and turkeys.	1,119
<i>beta</i> -Agonists ²	300, 230, 230, 230 samples are scheduled for heifers, formula-fed veal, non-formula-fed veal, and heavy calves, respectively. Confirmation done by FDA-NCTR ³	No samples are scheduled for the 2006 NRP.	990
Diethylstilbestrol ⁴	Not in the 2006 NRP.	Not in the 2006 NRP.	
Fluoroquinolones ⁵	Not in the 2006 NRP.	Not in the 2006 NRP.	
Nitrofurans ⁶	300, 300, and 230 samples are scheduled for dairy cows, heifers, and formula-fed veal, respectively.	No samples are scheduled for the 2006 NRP.	830
Nitroimidazoles ⁷	300 samples are scheduled for young turkeys.	32 samples are scheduled for Turkey	332
Phenylbutazone ⁸	300, 300, 300, 300, 300, 230, 230, and 230 samples are scheduled for bulls, beef cows, dairy cows, heifers, steers, formula-fed veal, non-formula-fed veal, and heavy calves, respectively (by ELISA).	No samples are scheduled for the 2006 NRP.	2,190

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	<i>Domestic</i>	<i>Import</i>	
Phenylbutazone ⁹	300, 300, 300, 230, 300, 300, 230, 230, 230, and 230 samples are scheduled for beef cows, dairy cows, heifers, non-formula-fed veal, boars and stags, sows, sheep, lambs, goats, and equine, respectively are scheduled as part of the CHC/COP MRM.	1,052 samples are scheduled for cattle, pigs, sheep, goats, turkeys, chickens, and other fowls are scheduled as part of the CHC/COP MRM.	3,702
Ronidazole	Not in the 2006 NRP.	Not in the 2006 NRP.	
Vancomycin	Not in the 2006 NRP.	Not in the 2006 NRP.	

¹ Drugs banned from extralabel use under AMDUCA are not evaluated using the ranking formula. Instead, these drugs are automatically assigned a high sampling priority and will be included in the NRP if methodologies and resources are available.

² The *beta*-agonist methodology employs a screen that has been officially validated for 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. The follow-up confirmatory method may detect several unapproved beta agonists, including the following: clenbuterol; cimaterol; fenoterol; mabuterol; salbutamol; brombuterol; and terbutaline.

³ Food and Drug Administration, National Center for Toxicological Research, Jefferson, AR.

⁴ Xenobiotic hormone.

⁵ The fluoroquinolones, enrofloxacin and danofloxacin, are approved for use steers and heifers.

⁶ Furazolidone and nitrofurazone; antimicrobials.

⁷ Nitroimidazoles in the FSIS multi residue method (MRM) are dimetridazole and ipronidazole; antiprotozoal

⁸ The Surveillance Advisory Team (SAT) decided that all cattle classes will be sampled for phenylbutazone (ELISA method) for the 2006 NRP; non-Steroidal Anti-inflammatory Drug (NSAID).

⁹ FSIS chlorinated hydrocarbon (CHC) method.

**Summary Table II
Rank and Status of Veterinary Drugs
2006 FSIS NRP – Domestic and Import Sampling**

Rank	Veterinary Drug	Score	Scheduled Samples		Total
			Domestic	Import	
1	Antibiotics ¹	15.0	300, 300, 300, 230, 300, 230, 230, 230, 300, 300, 90, 300, 300 samples are scheduled for beef cows, dairy cows, heifers, bob veal, formula-fed veal, non-formula-fed veal, heavy calves, roaster pigs, boars and stags, sows, equine, young chickens, and young turkeys ² , respectively.	662 samples are scheduled for cattle, pigs, chickens, turkeys, and other fowl.	4,432
			Antibiotics Small Plant Retain and Test (SPRAT) - 360 samples are scheduled for dairy cows.		
2	Avermectins ³	14.0	300, 300, 300, 230, 230, 300, 230, 230, and 90 samples are scheduled for steers, heifers, bulls, heavy calves, non-formula-fed veal, sheep, lambs, goats, and equine, respectively.	621 samples are scheduled for cattle, sheep, and goats.	2,901
3	Sulfonamides ⁴	12.0	300, 300, 300, 300, 300, 230, 230, 300, 300, 230, and 230 samples are scheduled for market hogs, steers, dairy cows, beef cows, bulls, formula-fed veal, mature turkeys, bob veal, roaster pigs, non-formula-fed veal, and heavy calves, respectively.	964 samples are scheduled for cattle, pigs, sheep, goats, turkeys, chickens, and other fowl.	3,984
4	Florfenicol ⁵	11.8	300 and 100 samples are scheduled for dairy cows and non-formula-fed veal, respectively.	No samples are scheduled for the 2006 NRP.	400
5	Carbadox ⁶	11.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
6	Thyreostats ⁷	11.1	Not in the 2006 NRP.	Not in the 2006 NRP.	300
7	Berenil ⁸	10.8	Exploratory Assessment - 240 samples are scheduled for bulls.	No samples are scheduled for the 2006 NRP.	240

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			<i>Domestic</i>	<i>Import</i>	
8	Dipyron ⁹	10.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
9	Flunixin ¹⁰	7.0	230, 300, 300, and 230 samples are scheduled for bulls, beef cows, dairy cows, and heavy calves, respectively.	No samples are scheduled for the 2006 NRP.	1,060
10	Methyl prednisone ¹¹	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
11	Dexamethasone ¹²	6.0	No samples are scheduled for the 2006 NRP.	No samples are scheduled for the 2006 NRP.	
12	Trenbolone	4.9	300 and 230 samples are scheduled for formula-fed veal and non-formula-fed veal, respectively.	No samples are scheduled for the 2006 NRP.	530
13	Zeranol ¹³	4.9	300 samples are scheduled for formula-fed veal.	No samples are scheduled for the 2006 NRP.	300
14	Arsenicals ¹⁴	4.5	300 samples each are scheduled for market hogs and young chickens. ¹⁵	254 samples each are scheduled for pigs, goats, turkeys, and chickens.	854
15	Clorsulon ¹⁶	4.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

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<i>Rank</i>	<i>Veterinary Drug</i>	<i>Score</i>	<i>Scheduled Samples</i>		<i>Total</i>
			<i>Domestic</i>	<i>Import</i>	
16	Thiamphenicol ¹⁷	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
17	Amprolium ¹⁸	3.7	Not in the 2006 NRP.	Not in the 2006 NRP.	
18	Benzimidazoles ¹⁹	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
19	Hormones (naturally-occurring) ²⁰	3.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
20	Halofuginone ²¹	3.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
21	Eprinomectin	3.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
22	Prednisone ²²	3.2	Not in the 2006 NRP.	Not in the 2006 NRP.	
23	Etodolac ²³	3.2	Not in the 2006 NRP.	Not in the 2006 NRP.	

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			<i>Domestic</i>	<i>Import</i>	
24	Melengesterol acetate ²⁴ (MGA)	3.0	300 samples are scheduled for heifers.	No samples are scheduled for the 2006 NRP.	300
25	Lasalocid ²⁵	2.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
26	Ractopamine ²⁶	2.8	230 samples each are scheduled for formula-fed veal and non-formula-fed veal.	No samples are scheduled for the 2006 NRP.	460
27	Levamisole ²⁷	2.6	Not in the 2006 NRP.	Not in the 2006 NRP.	
28	Veterinary tranquilizers ²⁸	1.6	Not in the 2006 NRP.	Not in the 2006 NRP.	
29	Nicarbazin ²⁹	1.6	Not in the 2006 NRP.	Not in the 2006 NRP.	
30	Morantel and pyrantel	1.6	Not in the 2006 NRP.	Not in the 2006 NRP.	

¹ At present, the following antibiotics are quantitated using the 7-plate bioassay 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.

Summary Table II
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2006 FSIS NRP – Domestic and Import Sampling

- ² Young chickens and young turkeys have a 0% violation rate for antibiotics for the 3 year period (2001-2003). These production classes were rotated back into the scheduled sampling program for 2006 based on the expert opinion of the Surveillance Advisory Team (SAT).
- ³ Doramectin, ivermectin, and moxidectin; Antiparasitic.
- ⁴ Sulfonamides in the FSIS multi-residue method (MRM): Sulfapyridine, sulfadiazine, sulfathiazole, sulfamerazine, sulfamethazine, sulfachloropyridazine, sulfadoxine, sulfamethoxyypyridazine, sulfaquinoxaline, sulfadimethoxine, sulfisoxazole, sulfacetamide, sulfamethoxazole, sulfamethizole, sulfanilamide, sulfaguanidine, sulfabromomethazine, sulfasalazine, sulfaethoxyypyridazine, sulfaphenazole, and sulfatroxazole; Antimicrobials, some are coccidiostats; FDA has not set a tolerance for the following sulfonamides: sulfapyridine, sulfadiazine, sulfadoxine, sulfamethoxyypyridazine, sulfisoxazole, sulfacetamide, sulfamethoxazole, sulfamethizole, sulfanilamide, sulfaguanidine, sulfasalazine, sulfaphenazole, and sulfatroxazole.
- ⁵ Chloramphenicol derivative.
- ⁶ Antimicrobial.
- ⁷ Includes thiouracil.
- ⁸ Antiprotozoal.
- ⁹ Non-Steroidal Anti-Inflammatory Drug (NSAID).
- ¹⁰ Non-Steroidal Anti-Inflammatory Drug (NSAID).
- ¹¹ Glucocorticoid.
- ¹² Glucocorticoid.
- ¹³ Xenobiotic hormone
- ¹⁴ Detected as As
- ¹⁵ Beef cows, market hogs, roaster pigs, boars and stags, sows, mature chickens, and mature turkeys have a 0% violation rate for arsenic for the 3 year period (2001-2003). These production classes were rotated back into the scheduled sampling program for 2006 based on the expert opinion of the Surveillance Advisory Team (SAT).
- ¹⁶ Anthelmintic, Trematodes
- ¹⁷ Chloramphenicol derivative
- ¹⁸ Coccidiostat
- ¹⁹ Benzimidazoles in the FSIS multi-residue method (MRM) (thiabendazole and its 5-hydroxythiabendazole metabolite, albendazole 2-animosulfone metabolite, benomyl in the active hydrolyzed form carbendazim, oxfendazole, mebendazole, cambendazole, and fenbendazole); Anthelmintics
- ²⁰ 17-Estradiol, testosterone, and progesterone
- ²¹ Antiprotozoal, coccidiostat
- ²² Glucocorticoid
- ²³ Non-Steroidal Anti-Inflammatory Drug (NSAID).
- ²⁴ Xenobiotic hormone
- ²⁵ Coccidiostat
- ²⁶ *beta*-Agonist
- ²⁷ Anthelmintic
- ²⁸ Azaperone and its metabolite azaperol, xylazine, haloperidol, acetopromazine, propionylpromazine, and chlorpromazine
- ²⁹ Coccidiostat

2006 NRP Summary Table III
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2006 NRP		Total
			Domestic	Import	
1	Benzimidazole Pesticides – those compounds in the FSIS multi-residue method (MRM) ²	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
2	Imazalil	16.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
3	Arsanilic acid	13.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
4	1,2,4-Triazole	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
5	Propiconazole metabolite 1,2,4-triazole	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
6	Triazole analine	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
7	Triazole lactic acid	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
<p><i>Based on Surveillance Advisory Team (SAT) expert opinion, compounds above this point represent more of a potential public health risk than is indicated by their priority scores.</i></p>					

**2006 NRP Summary Table III
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan**

Rank	Compound / Compound Class ¹	Score	Status in the 2006 NRP		Total
			Domestic	Import	
8	Chlorinated hydrocarbons (CHCs) and chlorinated organophosphates (COPs) – those compounds in the FSIS multi-residue method (MRM) ³	16.0	300, 300, 300, 230, 300, 300, 230, 230, 230, and 230 samples are scheduled for beef cows, dairy cows, heifers, non-formula-fed veal, boars and stags, sows, sheep, lambs, goats, and equine, respectively.	1,052 samples are scheduled for cattle, pigs, sheep, goats, turkeys, chickens, and other fowl.	3,702
9	Chlorinated organophosphates (COPs) and organo phosphates (OPs) - those compounds not in FSIS COP and OP multi-residue method (MRM) ⁴	16.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
10	Triazines – those compounds not in FSIS triazine multi-residue method (MRM) ⁵	15.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
11	Carbamates – those compounds in the FSIS carbamate triazine multi-residue method (MRM) ⁶	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
12	Synthetic Pyrethrins – those compounds in the FSIS synthetic pyrethrin multi-residue method (MRM) ⁷	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
13	1-(2,4-Dichlorophenyl)-2-(1H-imidazole-1-yl)-1-ethanol ⁸	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
14	1,1-(2,2-Dichloroethylidene)bis(4-methoxybenzene) ⁹	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

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Rank	Compound / Compound Class ¹	Score	Status in the 2006 NRP		Total
			Domestic	Import	
15	1-Methoxy-4-(1,2,2,2-tetrachloroethyl)benzene) ¹⁰	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
16	3-(1-(2,4-Dichlorophenyl)-2-(1H-imidazole-1-yl)ethoxy)-1,2-propane diol ¹¹	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
17	Cyhalothrin, lambda	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
18	Fipronil ¹²	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
19	MB45950	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
20	MB46513	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
21	Methoxychlor olefin	14.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

2006 NRP Summary Table III
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

¹ Only those pesticides that have been designated as representing a broad potential public health risk are included in this summary table. For a complete list of pesticides that were considered for the 2006 NRP, see Table 28.

² 5-Hydroxythiabendazole, benomyl (as carbendazim), and thiabendazole.

³ HCB, alpha-BHC, lindane, heptachlor, dieldrin, aldrin, endrin, ronnel, linuron, oxychlorane, chlorpyrifos, nonachlor, heptachlor epoxide A, heptachlor epoxide B, endosulfan I, endosulfan I sulfate, endosulfan II, trans-chlordane, cis-chlordane, chlorfenvinphos, p,p'-DDE, p, p'-TDE, o,p'-DDT, p,p'-DDT, carbophenothion, captan, tetrachlorvinphos [stirofos], kepone, mirex, methoxychlor, phosalone, coumaphos-O, coumaphos-S, toxaphene, famphur, PCB 1242, PCB 1248, PCB 1254, PCB 1260, dicofol*, PBBs*, polybrominated diphenyl ethers*, deltamethrin* (*identification only).

⁴ Regulatory method is needed; Azinphos-methyl, azinphos-methyl oxon, chlorpyrifos, coumaphos, coumaphos oxon, diazinon, diazinon oxon, diazinon met G-27550, dichlorvos, dimethoate, dimethoate oxon, dioxathion, ethion, ethion monoaxon, fenthion, fenthion oxon, fenthion oxon sulfone, fenthion oxon sulfoxide, fenthion sulfone, fenthion sulfoxide, malathion, malathion oxon, naled, phosmet, phosmet oxon, pirimiphos-methyl, trichlorfon, tetrachlorvinphos, tetrachlorvinphos-4 metabolites, acephate, methamidophos, chlorpyrifos-methyl, fenamiphos, fenamiphos sulfoxide, fenamiphos sulfone, fenamiphos sulfoxide desisopropyl, fenamiphos sulfone desisopropyl, isofenphos, isofenphos oxon, isofenphos desisopropyl, isofenphos oxon desisopropyl, methidathion, ODM, parathion (ethyl), parathion oxon, parathion methyl, parathion methyl oxon, phorate, phorate oxon, phorate oxon sulfone, phorate oxon sulfoxide, phorate sulfone, phorate sulfoxide, profenofos, sulprofos, sulprofos oxon, sulprofos oxon sulfone, sulprofos oxon sulfoxide, sulprofos sulfone, sulprofos sulfoxide, tribufos (DEF).

⁵ Regulatory method is needed; Atrazine chloro metabolites, metribuzin, metribuzin DADK, metribuzin DA, metribuzin DK, amitraz, amitraz 2,4-DMA metab., desdiethyl simazine, desethyl simazine, simazine chloro metabolites.

⁶ Regulatory method is needed; Aldicarb, aldicarb sulfoxide, aldicarb sulfone, carbaryl, carbofuran, carbofuran, 3-hydroxy.

⁷ Cypermethrin, *cis*-permethrin, *trans*-permethrin, fenvalerate, *zeta*-cypermethrin.

⁸ Regulatory method is needed.

⁹ Regulatory method is needed.

¹⁰ Regulatory method is needed.

¹¹ Regulatory method is needed.

¹² Regulatory method is needed.

Summary Table IV
Rank and Status of Veterinary Drugs
2006 FSIS NRP, Domestic and Import Scheduled Sampling

<i>Environmental Contaminant¹</i>	<i>Scheduled Samples</i>		<i>Total</i>
	<i>Domestic</i>	<i>Import</i>	
Lead and cadmium	300 samples are scheduled for mature chickens.	No samples are scheduled for the 2006 NRP.	300

¹ Environmental contaminants are not assigned a ranking score in the NRP