

Design of the Domestic Scheduled Sampling Plan for Pesticides

I. Selecting and Ranking Candidate Pesticides

The candidate pesticides of concern selected by members of the Surveillance Advisory Team (SAT) from the Environmental Protection Agency (EPA). The candidates selected for the 2006 NRP are presented in *Table 30, Scoring Table for Pesticides*. Since the Food Safety and Inspection Service (FSIS) wishes to prioritize which *analyses* should be conducted, compounds that are, or are likely to be, detected by the same analytical methodology have been grouped together.

Compound Scoring

Using a 4-point scale (4 = high; 3 = moderate; 2 = low; 1 = none), members of the SAT scored each of the pesticides in each of the following categories. Note that some of these categories differ from those used for the veterinary drugs:

- FSIS Historical Testing Information on Violations
- Regulatory Concern
- Pre-slaughter Interval
- Bioconcentration Factor
- Endocrine Disruption
- Toxicity

Definitions of each of these categories, and the criteria used for scoring, appear below in the section, "*Scoring Key for Pesticides*."

The results of the compound scoring process are presented in *Table 30*. Where compounds were grouped together, the score assigned to each category is the highest score for all members of the group.

Compound Ranking

1. Background

Using *Equation 1¹*:

$$\begin{aligned}\text{Risk} &= \text{Exposure} \times \text{Toxicity} \\ &= \text{Consumption} \times \text{Residue Levels} \times \text{Toxicity} \\ &= \text{Consumption} \times \text{"Risk per Unit of Consumption"}\end{aligned}$$

FSIS chose to employ techniques and principles from the field of risk assessment to obtain a ranking of the relative public health concern represented by each of the candidate compounds or compound classes. However, unlike the case with veterinary drugs, FSIS does not have historical data on a sufficient range of different pesticide compounds or compound classes to predict violation scores (and thus risk per unit of consumption) using a regression equation. Therefore, a somewhat different approach (although related to that used for the veterinary drugs) was necessary to estimate the "Risk per Unit of Consumption" term.

¹ See the Section, *Design of the Domestic Scheduled Sampling Plan for Veterinary Drugs*.

2. Rating the Pesticides According to Relative Public Health Concern

The categories of "Regulatory Concern," "Pre-slaughter Interval" and "Bioconcentration Factor" were employed as predictors of risk per unit of consumption from pesticides in animal products. As indicated above, the "Regulatory Concern" category reflects EPA's professional judgment of the likelihood that a compound or compound class will exceed EPA's level of concern in meat, poultry, or egg products. Thus, it combines residue level and toxicity information. As with the "Withdrawal Time" category for veterinary drugs, the "Pre-slaughter Interval" category is expected to correlate with residue level because longer pre-slaughter intervals are less likely to be properly observed. When the pre-slaughter interval is not observed, the carcass may contain violative levels of residues since the time necessary for sufficient metabolism and/or elimination of the pesticide may not have passed. Bioconcentration is a measure of the extent to which a pesticide concentrates within the fat deposits of animals. Pesticides that bioconcentrate are more likely to accumulate to higher levels within animal tissue, which is expected to increase the potential for human exposure.

The "Toxicity" category reflects both the dose required to achieve a toxic effect and the severity of that effect. Since the numerical value assigned to toxicity is independent of other parameters, it can be used directly as a term in *Equation 1*.

EPA assigns a value to regulatory concern, pre-slaughter interval and bioconcentration factor to each pesticide compound or class of compounds. These values are multiplied by a weighted average and then by the toxicity value to give an estimate of the relative risk per unit of consumption, as shown in *Equation 12*.

<p>Equation 12</p> <p>Relative Public Health Concern</p> <p>= Estimated relative risk per unit of consumption x <i>modifier for "Lack of FSIS Testing Information on Violations"</i></p> <p>= Estimated relative exposure x Relative toxicity x <i>modifier for "Lack of FSIS Testing Information on Violations"</i></p> <p>= Weighted average of {"Regulatory Concern," "Pre-slaughter Interval," "Bioconcentration factor"} x "Toxicity."</p>

Comparing *Equation 12* to *Equation 3*, it can be seen that the "Weighted average of {'Regulatory Concern,' 'Pre-slaughter Interval,' 'Bioconcentration factor'}" has been used in place of "Predicted or Actual Score for 'FSIS Historical Testing Information on Violations.'" Endocrine Disruption" was not included in *Equation 12*, because scores for this category were not available for most of the pesticides.

The pesticides in *Table 30* are rated according to their relative public health concern by combining the scoring categories presented in *Equation 12* using a weighting formula. The formula is presented in *Equation 13* and in *Table 30*. FSIS selected this formula, based on a consensus about the relative importance of each modifier, and of how much each modifier should be allowed to alter the underlying risk-based score for Relative Public Health Concern. The value of the selected mathematical formula is that it formalizes the basis of FSIS's judgement. This enables others to observe and understand the adjustments that were made, and it ensures consistency in how these adjustments were applied across a wide range of compounds.

Equation 13

Relative public health concern rating, pesticides = $((2 \cdot R + P + B) / 4) \cdot T$

Where: R = score for "Regulatory Concern"
 P = score for "Pre-slaughter Interval"
 B = score for "Bioconcentration Factor"
 T = score for "Toxicity."

In *Equation 13*, the variable for regulatory concern (R) is given twice as much weight as the pre-slaughter interval (P) and bioconcentration factor (B) because FSIS considers regulatory concern to be more of a direct measurement of exposure.

Equation 13 for pesticides and *Equation 4* for veterinary drugs have been normalized to give the same maximum value so that their values appear to be comparable. However, because *Equation 13* uses variables that are derived from terms (scoring categories) that are not the same as the terms used in *Equation 4*, their scores are not comparable. The scores for the pesticides and drugs were normalized to provide a rough comparison between these two different categories of compounds.

In *Table 31, Rank and Status for Pesticides*, the pesticides are ranked by their rating scores, as generated using the selected weighting scheme given in *Equation 13*. The scores presented in *Table 31* enable FSIS to bring consistency, grounded in formal risk-based considerations, to its efforts to differentiate among a very diverse range of pesticides and pesticide classes in a situation that is marked by minimal data on relative exposures. These rankings do not account for differences in exposure due to differences in overall consumption. Data on relative consumption are applied subsequently, in Phase IV, when relative exposure values for each compound/production class (C/PC) pair are estimated.

II. Prioritizing Candidate Pesticides

Once SAT completed ranking the pesticides according to their relative public health concern, the ranking scores were used to select compounds for the 2006 NRP. Using professional judgment, SAT participants decided that the pesticide compounds and compound classes that received a ranking of 21 or greater, as shown in *Table 31* represent a potential public health concern that is sufficient to justify their inclusion in the 2006 NRP. **In addition, EPA indicated that pesticide compounds one through seven in *Table 31* have more potential for concern than their scores indicate. For this reason, these compounds were moved to the top of the priority list.**

Once these high-priority compounds and compound classes had been identified, it was necessary for FSIS to apply considerations beyond those related to public health to determine the compounds that would be sampled. The principal consideration that was not related to public health was the availability of laboratory resources, especially the availability of appropriate analytical methods within the FSIS laboratories. Based on this constraint, only the chlorinated hydrocarbon/chlorinated organophosphate (CHC/COP) compound class can currently be included in the NRP. There are 39 compounds in this compound class that FSIS will analyze for quantity and chemical identity. There are 4 additional compounds that will only be identified. The compounds are:

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*, and deltamethrin* (*identification only; not quantitated)

The sampling status of each compound or compound class in the 2006 scheduled sampling plan is provided in *Table 31*. For each highly ranked compound or compound class that was not scheduled for inclusion in the 2006 NRP, a brief explanation of the reason for its exclusion is provided. This table will be used to identify future method development needs for pesticides for the FSIS NRP.

It can be seen that a number of highly ranked pesticides could not be included in the 2006 NRP due to methodological limitations. FSIS will apply methodology capable of capturing chlorinated hydrocarbons and chlorinated and non-chlorinated organophosphates when such methodology can be implemented.

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

The CHC/COP class includes pesticides that may be present in the foods animals eat, creating the potential for the occurrence of "secondary residues" (i.e., residues that are not the result of direct treatment) in all classes of animals. Other compounds within this class (such as the PCBs) are environmental contaminants to which any animal may be exposed.

For the 2006 NRP, FSIS has suspended scheduled sampling testing for CHCs and COPs for the following production classes: minor species (ducks, geese, ratites, rabbits, squab, and bison); young chickens; market hogs; steers; young turkeys; mature chickens; bulls; formula-fed veal; mature turkeys; roaster pigs; and bob veal. Not scheduling these species will allow FSIS to focus those resources on the development of methodologies in areas that are of high public health concern. FSIS will continue sampling for CHCs and COPs as a means of scheduled sampling for the occurrence of accidental contamination incidents.

IV. Allocation of Sampling Resources

Since only the CHC/COP compound class will be included in the 2006 NRP, this phase is relatively straightforward. FSIS has sufficient analytical capability to implement CHC/COP analysis in all production classes. To establish a relative sampling priority for each C/PC pair, the ranking score for the CHC/COPs were calculated (*Table 30*) and multiplied by the estimated relative percent of domestic consumption for each production class (presented in *Table 4*) and shown in *Equation 14*. This is identical to *Equation 6*, which was used to calculate the relative sampling priorities for the veterinary drugs:

Equation 14

$$(\text{Rel. sampling priority})_{C/PC} = (\text{Ranking score})_C \times (\text{Est. rel. \% domestic consumption})_{PC}$$

As stated above for veterinary drugs, *Equation 14* is analogous to the equation used to estimate risk in *Equation 1*, in which risk per unit of consumption is multiplied by consumption. While the results of *Equation 14* do not constitute an estimate of risk, they provide a numerical representation of the relative public health concern associated with each C/PC pair, and thus can be used to prioritize FSIS analytical sampling resources according to the latter. Note that the risk ranking provided by *Equation 14* is based upon average consumption across the entire U.S. population, rather than upon maximally exposed individuals.

A ranking of the C/PC pairs within this single compound class could be obtained merely using the estimated relative percent of domestic consumption for each production class. In other words, the *rank order and the relative magnitude of the score* assigned to each of the C/PC pairs within this compound class is not changed by multiplying all the relative consumption values by the ranking score, since the ranking score is a constant term. Nevertheless, to maintain a rough parity between the sampling numbers assigned to the veterinary drugs and those assigned to the pesticides, all of the relative consumption figures were multiplied by the ranking score for the CHC/COP compound class. Then, rather than simply dividing the production classes into quartiles, the initial sampling levels were chosen using the same cutoff numbers employed in *Table 5* for the veterinary drugs. The cutoff scores are as follows: for a priority score greater than 15, a sample number of 300 was applied and for a priority score of less than 15, a sample number of 230 was applied. The results are presented in *Table 32, Pesticide Compound/Production Class Pairs, Sorted by Sampling Priority Score, with Adjusted Number of Analyses*. These sampling levels provide varying probabilities of detecting residue violations. Larger sample sizes, which provide the greater chance of detecting violations, are directed towards those C/PC pairs that have been identified as representing higher levels of relative public health concern.

Adjusting Relative Sampling Numbers

Adjusting for historical data on violation rates of individual C/PC pairs

Extensive FSIS historical testing information on violations, subdivided by production class, is available for the CHC/COP compound class. This information has been used to further refine the relative priority of sampling each C/PC pair. *Table 32* lists, for the period 01/01/1995 -12/31/2004 the total number of samples analyzed by FSIS in each production class under its scheduled sampling plan (i.e., random sampling only), and the percent of samples found to be violative (i.e., present at a level in excess of the action level or regulatory tolerance; or, for those compounds that are prohibited, present at any detectable level). Using these data, the following rules were applied to adjust the sampling numbers:

1. Less than 300 samples from the C/PC pair tested over the 10-year period: +1 level (i.e., increase by one sampling level, e.g., from 230 samples to 300 samples).
2. At least 300 samples tested over the 10-year period, violation rate $\geq 0.25\%$: +1 level.
3. At least 300 samples tested over the 10-year period, violation rate = 0.00%: -1 level.
4. The maximum number of samples to be scheduled for testing is 300.

Exceptions to these rules are:

1. Because the use of the CHC/COP method to test for phenylbutazone did not start until recently, FSIS has limited data on the occurrence of this drug in the production classes of interest. Therefore, all production classes for which phenylbutazone was designated as of potential concern (in *Table 3A*, with a "●") were assigned a minimum of 300 samples.
2. For the 2006 NRP, FSIS has suspended scheduled sampling testing for for CHCs and COPs for the following production classes: minor species (ducks, geese, ratites, rabbits, squab, and bison); young chickens; market hogs; steers; young turkeys; mature chickens; bulls; formula-fed veal; mature turkeys; roaster pigs; and bob veal.

All of the above adjustments were applied. The sampling numbers obtained following these adjustments are listed in *Table 32* under the heading, "Initial Adjust," (initial adjusted number of samples).

Adjusting for laboratory capacity

No adjustment for laboratory capacity was necessary for the 2006 NRP.

Adjustment for the Number of Slaughter Facilities

An adjustment to the total number of scheduled samples was made based on the number of production facilities (*Table 32*). For this adjustment, FSIS considered the total number of production facilities (USDA Inspected Establishments for 2003) for each production class. If the total number of production facilities for a production class was found to be low relative to other production classes, the total number of scheduled samples was reduced for that production class. The number of samples selected for the reduction is based on FSIS professional judgment. If the number of facilities is less than 100, the number of scheduled samples was adjusted down by 1 level (if 300 were assigned initially, decrease to 230 samples). The total number of samples will not be reduced below 230. Based on these parameters, the number of scheduled samples was adjusted for the following production classes: “Formula-fed veal”, “Bob Veal”, “Young Turkeys”, “Mature Chickens”, and “Mature Turkeys.” No adjustment will be made for the minor species (bison, ducks, rabbits, geese, squab, and ratites) since these minor species are suspended from testing for the 2006 NRP.

V. Scoring Key for Pesticides

FSIS Historical Testing Information on Violations (01/01/199 -12/31/2004)

Violation rate scores were calculated by two different methods, A and B, using violation rate data from FSIS random sampling of animals entering the food supply:

Method A: Maximum Violation Rate. Identify the production class exhibiting the highest average violation rate (the number of violations over the period from 1995-2004, divided by the total number of samples analyzed). Score as follows:

- 4 = > 0.5%
- 3 = 0.25% - 0.5 %
- 2 = 0.07% - 0.24%
- 1 = < 0.07%
- NT = Not tested by FSIS.
- NA = Tested by FSIS, but violation information does not apply.

Method B: Violation Rate Weighted by Size of Production Class. For each production class analyzed, multiply the average violation rate (defined above) by the relative consumption value for that class (weight annual U.S. production for that class, divided by total production for all classes for which FSIS has regulatory responsibility). Add together the values for all production classes. Score as follows:

- 4 = > 0.08%
- 3 = 0.035% - 0.08%
- 2 = 0.003% - 0.034%
- 1 = < 0.003%
- NT = Not tested by FSIS.
- NA = Tested by FSIS, but violation information does not apply.

The final score is determined by assigning, to each pesticide or pesticide class, the greater of the scores from Method A and Method B.

It can be seen that Method A identifies those pesticides that are of regulatory concern because they exhibit high violation rates, independent of the relative consumption value of the production class in which the violations have occurred. Method B identifies those pesticides that may not have the highest violation rates, but would nevertheless be of concern because they exhibit moderate violation rates in a relatively large proportion of the U.S. meat supply. By employing Methods A and B together, and assigning a final score based on the highest score received from each, both of the above concerns are captured.

Regulatory Concern

These scores represent EPA's professional assessment of the extent to which the acute or chronic dietary exposure to this compound may exceed EPA's level of concern. For compounds other than carcinogens, this was determined by comparing a compound's Acute or Chronic Population Adjusted Dose (PAD) (whichever was lower) to the estimated level of exposure. The Acute and Chronic PAD's are calculated as follows:

The Acute Reference Dose (Acute RfD) is an estimate (with uncertainty spanning an order of magnitude or greater) of a single oral exposure level for the human population, including sensitive subpopulations, that is likely to be without an appreciable risk of deleterious effects.

The Chronic Reference Dose (Chronic RfD) is an estimate (with uncertainty spanning an order of magnitude or greater) of a daily oral exposure level for the human population, including sensitive subpopulations, that is likely to be without an appreciable risk of deleterious effects during a lifetime.

The Acute and Chronic RfD's are calculated by dividing the No Observed Adverse Effect Level (NOAEL) (i.e., the highest dose that gave no observable adverse effect) or the Lowest Observed Adverse Effect Level (LOAEL) (i.e., the lowest dose at which an adverse effect was seen) by Uncertainty Factors (UF). UF's are used to account for differences between different humans (intraspecies variability) and for differences between the test animals and humans (interspecies extrapolation). If the LOAEL is used, an additional UF is required.

$$\text{RfD} = (\text{NOAEL or LOAEL}) / \text{Total UF}$$

The Acute and Chronic Population Adjusted Dose (PAD) are the Acute and Chronic RfD, respectively, modified by the FQPA Safety Factor:

$$\text{Acute or Chronic PAD} = (\text{Acute or Chronic RfD}) / \text{FQPA Safety Factor}$$

The acute and chronic dietary risks are expressed as a percentage of the Acute or Chronic PAD. A dietary risk of 100% of the Acute or Chronic PAD (*whichever is lower*) is the target level of exposure that should not be exceeded (i.e., the estimated risk associated with any exposure that is less than 100% of the PAD has been judged not to be of concern). In the following, "PAD" is the lower of the Acute and Chronic PAD's.

4 = PAD exceeded or carcinogen.

3 = Close to PAD.

- 2 = Exposure estimated to be a low percentage of PAD.
- 1 = Exposure estimated to be a very low percentage of PAD.

Lack of FSIS Testing Information on Violations

The category, "Lack of FSIS Testing Information on Violations," has been removed from the expression for the 2006 NRP. SAT and other residue experts observed that the scores for the category lacked variability and, therefore, did not result in significant variability in the relative public health concern for a residue.

Pre-Slaughter Interval

A numerical value of 1, 2, 3 or 4 is assigned by EPA to pesticides for the category "Pre-Slaughter Interval" (*Table 30*). Pesticides in this category have been accepted for direct dermal application and have a minimum pre-slaughter interval, which is the interval between the last dermal application and the time of slaughter. FSIS determines a value for a pesticide in this category as follows:

- A value of 4 is assigned when dermal application is permitted and the pre-slaughter interval is 1 day or greater.
- A value of 3 is assigned when dermal application is permitted and pre-slaughter interval 0 days.
- A value of 2 is assigned when dermal application is not permitted, but the treatment of premises (e.g., holding cells, feedlots, barns, etc.) is permitted.
- A value of 1 is assigned when neither dermal application nor premise treatment are permitted.

Bioconcentration Factor

A numerical value of 1, 2, 3 or 4 is assigned by EPA to pesticides for the category "Bioconcentration Factor" (*Table 30*). Bioconcentration is a measure of a compound's relative affinity for fat, as measured by the $K_{o/w}$. The $K_{o/w}$ is defined as the logarithm of the partition coefficient between octanol and water ($\log P_{o/w}$). Compounds that have a high affinity for octanol (and thus a high $K_{o/w}$) tend to bioaccumulate in body fat. A bioconcentration value is determined according to the following criteria:

- A value of 4 is assigned if the $\log K_{o/w}$ is greater than 3.
- A value of 3 is assigned if the $\log K_{o/w}$ is between 2 and 3.
- A value of 2 is assigned if the $\log K_{o/w}$ is between 1 and 2.
- A value of 1 is assigned if the $\log K_{o/w}$ is less than 1.

Endocrine Disruption

A numerical value of 3 or 4 (or NT if not tested) is assigned by EPA to pesticides for the category “Endocrine Disruption” (*Table 30*). Endocrine disruption is a measure of the extent to which the compound changes endocrine function and causes adverse effects to individual organisms and/or their progeny, or to organism populations and subpopulations. A value for endocrine disruption is assigned as follows:

- A value of 4 is assigned if endocrine disruption is likely.
- A value of 3 is assigned if endocrine disruption is suspected.
- NT is reported if the compound has not been tested.

Toxicity

A numerical value of 1, 2, 3 or 4 is assigned by EPA to pesticides for the category “Toxicity” (*Table 30*). The toxicity value represents EPA’s professional judgment of the toxicity of the compound, including both the dose required to achieve a toxic effect, and the severity of the toxic effect. In the following, “RfD” is the lower of the Acute and Chronic RfD’s. [An explanation of Acute and Chronic RfD is provided in the description of Regulatory Concern, above.] A value for toxicity is determined as follows:

- A value of 4 is assigned if the pesticide compound is a cholinesterase inhibitor, carcinogen or has a low RfD.
- A value of 3 is assigned if the pesticide compound has a medium RfD.
- A value of 2 is assigned if the pesticide compound has a high RfD.
- A value of 1 is assigned if the pesticide compound has a high RfD.

Table 30
Scoring Table for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> <i>(V)</i>	<i>Regulatory Concern²</i> <i>(R)</i>	<i>Pre-Slaughter Interval³</i> <i>(P)</i>	<i>Bioconcentration⁴</i> <i>(B)</i>	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> <i>(T)</i>	$(((2 * R) + P + B) / 4) * T$
Benzimidazole Pesticides – compounds in FSIS benzimidazole MRM ⁷	Not Tested ⁸	3	1	4	3	4	11.0
Carbamates in FSIS Carbamate – compounds in the FSIS MRM ⁹	Not Tested	4	4	2	3	4	14.0
Carbamates – compounds not in the FSIS carbamate MRM ¹⁰	Not Tested	4	1	3	Not Available	4	12.0
Chlorinated hydrocarbons and chlorinated organophosphates (CHCs and COPs) – compounds in the FSIS CHC/COP MRM ¹¹	3	4	4	4	Not Available	4	16.0
Chlorinated organophosphates and organophosphates (COPs and OPs) not in the FSIS CHC/COP MRM ¹²	Not Tested	4	4	4	Not Available	4	16.0
Synthetic Pyrethrins – compounds in the FSIS Synthetic Pyrethrin MRM ¹³	Not Tested	3	4	4	3	4	14.0
Triazines – compounds in the FSIS triazine MRM ¹⁴	Not Tested	4	2	3	4	4	13.0
Triazines – compounds not in the FSIS triazine MRM ¹⁵	Not Tested	4	4	3	4	4	15.0
1-(2,4-dichlorophenyl)-2-(1H-imidazole-1-yl)-1-ethanol	Not Tested	3	4	4	Not Available	4	14.0

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1,1-(2,2-dichloroethylidene)bis(4-methoxybenzene)	Not Tested	3	4	4	Not Available	4	14.0
1,1,3,3,-tetrakis(2-methyl-2-phenylpropyl)-1,3-dihydroxydistannoxane	Not Tested	2	1	4	Not Available	3	6.8
1-methoxy-4-(1,2,2,2-tetrachloroethyl)benzene)	Not Tested	3	4	4	Not Available	4	14.0
1-methyl cyromazine	Not Tested	3	4	2	Not Available	4	12.0
1,2,4-Triazole	Not Tested	4	1	3	Not Available	4	12.0
2-((2-ethyl-6-methylphenyl)-amino)-1-propanol	Not Tested	3	1	3	3	4	10.0
2-(1-hydroxyethyl)-6-ethylaniline	Not Tested	4	1	3	3	4	12.0
2-(4-((6-chloro-2-benzoxazolyl)oxy)phenoxy)propanoic acid	Not Tested	3	1	4	Not Available	4	11.0
2,3-dihydro-3,3-dimethyl-2-oxo-5-benzofuranyl methyl sulfonate	Not Tested	2	1	2	Not Available	2	3.5
2,4-D	Not Tested	3	2	1	3	2	4.5

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2,5-dichloro-4-methoxyphenol	Not Tested	1	1	2	Not Available	3	3.8
2,6-diethylaniline	Not Tested	4	1	3	3	4	12.0
2-aminobenzimidazole	Not Tested	3	1	2	3	4	9.0
2-amino-n-isopropylbenzamide	Not Tested	3	1	2	Not Available	3	6.8
2-carboxyisopropyl-4-(2,4-dichloro)-5-isopropoxyphenyl)-1,3,4-oxadiazolin-5-one	Not Tested	3	1	4	Not Available	4	11.0
2-hydroxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methyl sulfonate	Not Tested	2	1	2	Not Available	2	3.5
2-t-butyl-4-(2,4-dichloro-5-hydroxyphenyl)-delta 2-1,3,4-oxadiazolin-1,3,4,5-one	Not Tested	3	1	4	Not Available	4	11.0
3-(1-(2,4-dichlorophenyl)-2-(1H-imidazole-1-yl)ethoxy)-1,2-propane diol	Not Tested	3	4	4	Not Available	4	14.0
3-(2-chloro-4-hydroxyphenyl)-6-(2-chlorophenyl)-1,2,4,5-tetrazine	Not Tested	3	1	1	Not Available	4	8.0
3-(3,4-dichlorophenyl)-1-methoxyurea	Not Tested	3	2	3	Not Available	4	11.0

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3,4-Dichloroaniline	Not Tested	3	2	3	Not Available	4	11.0
3,4-dichlorophenylurea	Not Tested	3	2	3	Not Available	4	11.0
3-carboxy-5-ethoxy-1,2,4-thiadiazole	Not Tested	3	1	4	Not Available	3	8.3
3-t-butyl-5-chloro-6-hydroxymethyluracil	Not Tested	1	1	1	Not Available	3	3.0
4-(2-ethyl-6-methylphenyl)-2-hydroxy-5-methyl-3-morpholinone	Not Tested	3	1	3	3	4	10.0
4-chloro-2-trifluoromethylaniline	Not Tested	3	1	4	Not Available	3	8.3
4-hydrocythidiazuron	Not Tested	2	1	2	Not Available	4	7.0
6-chloro-2,3-dihydro-3,3,7-trimethyl-5H-oxazolo(3,2a)pyrimidin-5-one	Not Tested	1	1	1	Not Available	3	3.0
6-chloro-2,3-dihydro-7-hydroxymethyl-3,3-dimethyl-5H-oxazolo(3,2-a)pyrimidin-5-one	Not Tested	1	1	1	Not Available	3	3.0
6-chloro-2,3-dihydro-benzoxazol-2-one	Not Tested	3	1	4	Not Available	4	11.0

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Scoring Table for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
6-chloronicotinic acid	Not Tested	3	1	1	Not Available	3	6.0
6-chloropicolinic acid	Not Tested	1	1	4	Not Available	3	5.3
6-methyl-2,3-quinoxalinedithiol	Not Tested	3	1	2	Not Available	4	9.0
Abamectin	Not Tested	2	1	4	Not Available	4	9.0
Abamectin delta 8,9 geometric isomer	Not Tested	2	1	4	Not Available	4	9.0
Acifluorfen, amino analog	Not Tested	3	1	2	Not Available	3	6.8
Alachlor	Not Tested	4	1	3	3	4	12.0
Allophanate	Not Tested	3	1	2	Not Available	4	9.0
Aminomethylphosphonic acid	Not Tested	1	2	1	Not Available	1	1.3
Arsanilic acid	Not Tested	4	1	4	Not Available	4	13.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Azoxystrobin	Not Tested	1	1	3	Not Available	2	3.0
Azoxystrobin Z isomer	Not Tested	1	1	3	Not Available	2	3.0
Benoxacor	Not Tested	1	1	3	Not Available	4	6.0
Bensulfuron methyl ester	Not Tested	Not Available	1	1	Not Available	2	1.0
Bentazon, 6-hydroxy bentazon, 8-hydroxy bentazon	Not Tested	3	1	2	Not Available	3	6.8
Bifenthrin	Not Tested	3	1	4	Not Available	4	11.0
Bifenthrin, 4'-hydroxy	Not Tested	3	1	4	Not Available	4	11.0
Bis(trichloromethyl)disulfide	Not Tested	3	1	4	Not Available	4	11.0
Bromoxynil	Not Tested	3	1	1	Not Available	4	8.0
Buprofezin	Not Tested	2	1	2	Not Available	4	7.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Butylamine, sec-	Not Tested	2	1	2	Not Available	2	3.5
Cacodylic acid	Not Tested	3	3	3	3	4	12.0
Captan epoxide	Not Tested	3	1	4	Not Available	4	11.0
Carboxin	Not Tested	3	1	2	Not Available	4	9.0
Carboxin sulfoxide	Not Tested	3	1	2	Not Available	4	9.0
Carfentrazone Ethyl	Not Tested	1	1	4	Not Available	1	1.8
CGA 150829	Not Tested	2	1	1	Not Available	4	6.0
CGA 161149	Not Tested	1	1	1	Not Available	3	3.0
CGA 171683	Not Tested	2	1	1	Not Available	4	6.0
CGA 195654	Not Tested	1	1	1	Not Available	3	3.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Chlorfenapyr	Not Tested	1	1	2	Not Available	4	5.0
Chlorobenzilate	Not Tested	3	1	4	Not Available	3	8.3
Chloroneb	Not Tested	1	1	2	Not Available	3	3.8
Chloroneb, hydroxy-	Not Tested	1	1	2	Not Available	3	3.8
Chlorsulfuron	Not Tested	3	1	2	Not Available	3	6.8
Chlorsulfuron, 5-hydroxy-	Not Tested	3	1	2	Not Available	3	6.8
Clethodim	Not Tested	Not Available	1	2	Not Available	3	2.3
Clofencet	Not Tested	1	1	2	Not Available	3	3.8
Clofentezine	Not Tested	3	1	1	Not Available	4	8.0
Cloprop	Not Tested	1	1	1	Not Available	3	3.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Clopyralid	Not Tested	1	2	1	Not Available	2	2.5
Compound 125670	Not Tested	2	1	2	Not Available	2	3.5
CP 101394	Not Tested	4	1	3	3	4	12.0
CP 108064	Not Tested	4	1	3	3	4	12.0
CP 108065	Not Tested	4	1	3	3	4	12.0
CP 108267	Not Tested	4	1	3	3	4	12.0
CP 51214	Not Tested	4	1	3	3	4	12.0
Cyclanilide	Not Tested	3	1	4	Not Available	4	11.0
Cyclohexylstannoic acid	Not Tested	2	1	2	Not Available	4	7.0
Cyfluthrin	Not Tested	4	4	2	Not Available	3	10.5

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Cyhalothrin, lambda-	Not Tested	4	4	2	Not Available	4	14.0
Cyhexatin	Not Tested	2	1	2	Not Available	4	7.0
Cyromazine	Not Tested	3	4	2	Not Available	4	12.0
Dalapon	Not Tested	2	2	2	Not Available	3	6.0
Dialifor	Not Tested	3	1	4	Not Available	4	11.0
Dialifor oxon	Not Tested	3	1	4	Not Available	4	11.0
Dicamba	Not Tested	3	2	3	Not Available	4	11.0
Dicyclohexyltin oxide	Not Tested	2	1	2	Not Available	4	7.0
Difenoconazole	Not Tested	4	1	4	Not Available	3	9.8
Difenzoquat	Not Tested	1	1	1	Not Available	4	4.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Diflubenzuron	Not Tested	3	4	4	Not Available	2	7.0
Diflufenzopyr	Not Tested	1	1	2	Not Available	4	5.0
Dimethenamid	Not Tested	2	1	1	Not Available	2	3.0
Dimethipin	Not Tested	1	1	1	Not Available	3	3.0
Dioxathion	Not Tested	3	1	3	Not Available	4	10.0
Diphenamid	Not Tested	3	1	1	Not Available	3	6.0
Diphenamid, desmethyl	Not Tested	3	1	1	Not Available	3	6.0
Diphenylamine	Not Tested	3	3	1	Not Available	3	7.5
Dipropyl isocinchomerate	Not Tested	3	4	4	Not Available	2	7.0
Diquat dibromide	Not Tested	1	1	3	Not Available	4	6.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Diuron	Not Tested	3	2	3	Not Available	4	11.0
Dodine	Not Tested	2	1	1	Not Available	3	4.5
Enamectin	Not Tested	2	1	4	Not Available	3	6.8
Esfenvalerate	Not Tested	3	4	3	Not Available	3	9.8
Ethalfuralin	Not Tested	3	1	2	Not Available	4	9.0
Ethephon	Not Tested	3	1	1	Not Available	2	4.0
Ethofumesate	Not Tested	2	1	2	Not Available	2	3.5
Ethoxyquin	Not Tested	4	2	4	Not Available	2	7.0
Etridiazole .	Not Tested	4	1	4	Not Available	3	9.8
ETU	Not Tested	3	1	2	3	4	9.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Fenarimol	Not Tested	1	1	4	Not Available	3	5.3
Fenarimol metabolite B	Not Tested	1	1	4	Not Available	3	5.3
Fenarimol metabolite C	Not Tested	1	1	4	Not Available	3	5.3
Fenbuconazole	Not Tested	4	1	4	Not Available	3	9.8
Fenbutatin Oxide	Not Tested	2	1	4	Not Available	3	6.8
Fenoxaprop ethyl	Not Tested	3	1	4	Not Available	4	11.0
Fenpropathrin	Not Tested	4	1	1	Not Available	3	7.5
Fenridazon	Not Tested	2	1	2	Not Available	3	5.3
Fipronil	Not Tested	3	4	4	Not Available	4	14.0
Fluazifop-butyl	Not Tested	3	1	2	Not Available	3	6.8

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Fludioxanil	Not Tested	1	1	4	Not Available	1	1.8
Flufenacet (thiafluamide)	Not Tested	3	1	4	Not Available	3	8.3
Fluridone	Not Tested	2	1	2	Not Available	3	5.3
Fluroxypyr	Not Tested	2	1	1	Not Available	2	3.0
Fluthiacet-Methyl (CGA-248757)	Not Tested	1	1	1	Not Available	1	1.0
Flutolanil	Not Tested	2	1	4	Not Available	2	4.5
Fluvalinate	Not Tested	4	1	4	Not Available	3	9.8
Glufosinate-Ammonium	Not Tested	1	2	1	Not Available	3	3.8
Glyphosate	Not Tested	1	2	1	Not Available	1	1.3
Glyphosate-Trimesium	Not Tested	1	1	1	Not Available	2	2.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Halosulfuron	Not Tested	1	1	2	Not Available	2	2.5
Hexazinone	Not Tested	3	1	2	Not Available	3	6.8
HOE-061517	Not Tested	1	2	1	Not Available	3	3.8
HOE-099730	Not Tested	1	2	1	Not Available	3	3.8
Imazalil	Not Tested	4	4	4	Not Available	4	16.0
Imidacloprid	Not Tested	3	1	1	Not Available	3	6.0
IN-A3928	Not Tested	3	1	2	Not Available	3	6.8
IN-B2838	Not Tested	3	1	2	Not Available	3	6.8
Indoxacarb (DPX-MP062)	Not Tested	Not Available	1	Not Available	Not Available		0.0
IN-T3935	Not Tested	3	1	2	Not Available	3	6.8

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
IN-T3936	Not Tested	3	1	2	Not Available	3	6.8
IN-T3937	Not Tested	3	1	2	Not Available	3	6.8
Iprodione	Not Tested	3	1	3	Not Available	4	10.0
Iprodione isomer	Not Tested	3	1	3	Not Available	4	10.0
Iprodione metabolite	Not Tested	3	1	3	Not Available	4	10.0
Iprodione metabolite 2	Not Tested	3	1	3	Not Available	4	10.0
Isoxaflutole	Not Tested	4	1	3	Not Available	3	9.0
Kresoxim-methyl	Not Tested	4	1	4	Not Available	3	9.8
Maleic hydrazide	Not Tested	3	1	4	Not Available	1	2.8
Mancozeb	Not Tested	3	1	2	3	4	9.0

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<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Maneb	Not Tested	3	1	2	3	4	9.0
MB 45950	Not Tested	3	4	4	Not Available	4	14.0
MB 46136	Not Tested	3	4	4	Not Available	3	10.5
MB 46513	Not Tested	3	4	4	Not Available	4	14.0
MCPA	Not Tested	1	1	1	Not Available	4	4.0
Mepiquat chloride	Not Tested	3	1	1	Not Available	4	8.0
Methoprene	Not Tested	2	1	3	Not Available	2	4.0
Methoxychlor olefin	Not Tested	3	4	4	4	4	14.0
Methyl 3,5-dichlorobenzoate	Not Tested	3	1	4	Not Available	3	8.3
Metiram	Not Tested	3	1	2	3	4	9.0

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Metolachlor	Not Tested	3	1	3	3	4	10.0
Metsulfuron Methyl	Not Tested	1	1	1	Not Available	2	2.0
Myclobutanil, myclobutanil alcohol metabolite, myclobutanol dihydroxy metabolite	Not Tested	3	1	2	Not Available	2	4.5
N-(3,4-dichlorophenyl)-N'-methylurea	Not Tested	3	2	3	Not Available	4	11.0
N-(4-chloro-2-trifluoromethylphenyl)- propoxyacetamide	Not Tested	3	1	4	Not Available	3	8.3
Nicotine	Not Tested	1	1	3	Not Available	4	6.0
Nitrapyrin	Not Tested	1	1	4	Not Available	3	5.3
Norfluraxon, desmethyl-	Not Tested	3	1	1	Not Available	4	8.0
Norflurazon	Not Tested	3	1	1	Not Available	4	8.0
N-phenylurea	Not Tested	2	1	2	Not Available	4	7.0

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NTN33823	Not Tested	3	1	1	Not Available	3	6.0
NTN35884	Not Tested	3	1	1	Not Available	3	6.0
Octyl bicycloheptene dicarboximide (MGK-264)	Not Tested	3	4	4	Not Available	3	10.5
Oxadiazon	Not Tested	3	1	4	Not Available	4	11.0
Oxyfluorfen	Not Tested	3	1	4	Not Available	4	11.0
Oxythioquinox	Not Tested	3	1	1	Not Available	4	8.0
Paraquat dichloride	Not Tested	3	1	1	Not Available	4	8.0
PB-7	Not Tested	2	1	1	Not Available	4	6.0
PB-9	Not Tested	2	1	2	Not Available	4	7.0
Phosalone oxon	Not Tested	4	1	3	Not Available	4	12.0

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Picloram	Not Tested	1	2	1	Not Available	2	2.5
Piperonyl butoxide	Not Tested	3	4	2	Not Available	3	9.0
PP 890	Not Tested	3	4	2	Not Available	4	12.0
Primisulfuron-methyl	Not Tested	2	1	1	Not Available	4	6.0
Propanil	Not Tested	1	1	3	Not Available	4	6.0
Propargite	Not Tested	3	1	2	Not Available	3	6.8
Propargite	Not Tested	3	1	2	Not Available	3	6.8
Propiconazole	Not Tested	4	1	3	Not Available	4	12.0
Propiconazole metabolite 1,2,4-triazole	Not Tested	4	1	3	Not Available	4	12.0
Propiconazole metabolite CGA 118244	Not Tested	4	1	3	Not Available	4	12.0

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Propiconazole metabolite CGA 91305	Not Tested	4	1	3	Not Available	4	12.0
Propyzamide	Not Tested	3	1	4	Not Available	3	8.3
Prosulfuron	Not Tested	1	1	3	Not Available	3	4.5
Pymetrozine	Not Tested	1	1	1	Not Available	1	1.0
Pyradostrobin	Not Tested	1	1	3	Not Available	2	3.0
Pyrazon	Not Tested	3	1	1	Not Available	4	8.0
Pyrazon metabolite A	Not Tested	3	1	2	Not Available	4	9.0
Pyrazon metabolite B	Not Tested	3	1	2	Not Available	4	9.0
Pyrethrin I	Not Tested	2	4	4	Not Available	3	9.0
Pyridaben	Not Tested	2	1	2	Not Available	4	7.0

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Pyriproxifen	Not Tested	1	1	4	Not Available	1	1.8
Quinclorac	Not Tested	2	1	2	Not Available	2	3.5
Quizalofop-ethyl	Not Tested	3	1	2	Not Available	4	9.0
SD 31723	Not Tested	2	1	4	Not Available	3	6.8
SD 33608	Not Tested	2	1	4	Not Available	3	6.8
SD 54597	Not Tested	3	4	3	Not Available	3	9.8
Sethoxydim	Not Tested	2	1	2	Not Available	2	3.5
Sethoxydim hydroxylate sulfone	Not Tested	2	1	2	Not Available	2	3.5
Sethoxydim sulfoxide	Not Tested	2	1	2	Not Available	2	3.5
Sodium acifluorfen	Not Tested	3	1	2	Not Available	3	6.8

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Spinosad	Not Tested	1	1	4	Not Available	1	1.8
Sulfosulfuron	Not Tested	2	1	1	Not Available	2	3.0
TCP=3,5,6-trichloro-2-pyridinol	Not Tested	3	2	1	Not Available	4	9.0
Tebuconazole	Not Tested	4	1	2	Not Available	3	8.3
Tebufenozide	Not Tested	3	1	4	Not Available	3	8.3
Tebuthiuron	Not Tested	2	1	2	Not Available	3	5.3
Teflubenzuron	Not Tested	Not Available	1	Not Available	Not Available		0.0
Terbacil	Not Tested	1	1	1	Not Available	3	3.0
Tetradifon	Not Tested	1	1	2	Not Available	4	5.0
Thiamethoxam	Not Tested	4	2	1	Not Available	4	11.0

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Thidiazuron	Not Tested	2	1	2	Not Available	4	7.0
Thiophanate methyl	Not Tested	3	1	2	Not Available	4	9.0
THPI	Not Tested	3	1	4	Not Available	4	11.0
Tralkoxydim	Not Tested	2	1	2	Not Available	2	3.5
Triadimefon	Not Tested	3	1	4	Not Available	4	11.0
Triadimefon metabolite KWG 1323	Not Tested	3	1	4	Not Available	4	11.0
Triadimefon metabolite KWG 1342	Not Tested	3	1	4	Not Available	4	11.0
Triadimefon metabolite KWG 1732	Not Tested	3	1	4	Not Available	4	11.0
Triadimenol (for metabolites see triadimefon)	Not Tested	3	1	4	Not Available	4	11.0
Triasulfuron	Not Tested	1	1	1	Not Available	3	3.0

Table 30
Scoring Table for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Compound / Compound Class</i>	<i>Historical Testing for Violations¹</i> (V)	<i>Regulatory Concern²</i> (R)	<i>Pre-Slaughter Interval³</i> (P)	<i>Bioconcentration⁴</i> (B)	<i>Endocrine Disruption⁵</i>	<i>Toxicity⁶</i> (T)	$((2*R)+P+B)/4)*T$
Triazole analine	Not Tested	4	1	3	Not Available	4	12.0
Triazole lactic acid	Not Tested	4	1	3	Not Available	4	12.0
Triclopyr	Not Tested	3	2	1	Not Available	4	9.0
Trifloxystrobin	Not Tested	1	1	3	Not Available	2	3.0
Triflumazole	Not Tested	4	1	4	Not Available	3	9.8
Triphenyltin hydroxide	Not Tested	1	1	4	Not Available	4	7.0
WAK4103	Not Tested	3	1	1	Not Available	3	6.0

Table 30
Scoring Table for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

¹ Scores for historical testing information for residue violations, V, are provided by USDA's Food Safety Inspection Service (FSIS).

² Scores for regulatory concern, R, are provided by FDA's Center for Veterinary Medicine (CVM).

³ Scores for withdrawal time P, are provided by EPA.

⁴ Scores for bioconcentration factor are provided by EPA.

⁵ Scores for endocrine disruption are provided by EPA.

⁶ Scores for toxicity are provided by EPA.

⁷ 5-Hydroxythiabendazole, benomyl (as carbendazim), thiabendazole

⁸ Not Tested = not scheduled for sampling by FSIS during the 10 year period, 01/01/1995 - 12/31/2004.

⁹ Aldicarb, aldicarb sulfoxide, aldicarb sulfone, carbaryl, carbofuran, carbofuran 3-hydroxy

¹⁰ Carbaryl 5,6-dihydroxy, chlorpropham, propham, thiobencarb, 4-chlorobenzylmethylsulfone, 4-chlorobenzylmethylsulfone sulfoxide

¹¹ HCB, alpha-BHC, coumaphos, coumaphos oxon, 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).

¹² Azinphos-methyl, azinphos-methyl oxon, chlorpyrifos, diazinon, diazinon oxon, diazinon met G-27550, dichlorvos, dimethoate, dimethoate oxon, dioxathion, ethion, ethion monooxon, 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).

¹³ Cypermethrin, cis-permethrin, trans-permethrin, fenvalerate, zeta-cypermethrin.

¹⁴ Atrazine, simazine, propazine, terbuthylazine

¹⁵ Atrazine, chloro metabolites, metribuzin, metribuzin DADK, metribuzin DA, metribuzin DK, amitraz, amitraz 2,4-DMA metab., desdiethyl simazine, desethyl simazine, simazine chloro metab.

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
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 align="center"><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>					

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
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 acheduled for cattle, pigs, sheep, goat, turkey, chicken and other fowls	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.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
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.	

Based on consultation with Environmental Protection Agency (EPA) and other agencies, compounds below this point were not considered to represent a broad potential public health risk. However, some of these compounds may be sampled on a specific, as needed basis.

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
22	Triazines – those compounds in the FSIS synthetic pyrethrin multi-residue method (MRM) ¹³	13.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
23	Carbamates – those compounds not in the FSIS Carbamate multiresidue method (MRM) ¹⁴	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
24	1-methyl cyromazine	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
25	2-(1-hydroxyethyl)-6-ethylaniline	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
26	2,6-Diethylaniline	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
27	Alachlor ¹⁵	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
28	Cacodylic acid	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
29	CP 101394	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
30	CP 108064	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
31	CP 108065	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
32	CP 108267	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
33	CP 51214	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
34	Cyromazine ¹⁶	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
35	Phosalone oxon	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
36	PP 890	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
37	Propiconazole	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
38	Propiconazole metabolite CGA 118244	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
39	Propiconazole metabolite CGA 91305	12.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
40	2-(4-((6-chloro-2-benzoxazolyl)oxy)phenoxy)propanoic acid	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
41	2-carboxyisopropyl-4-(2,4-dichloro)-5-isopropoxyphenyl)-1,3,4-oxadiazolin-5-one	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
42	2-t-butyl-4-(2,4-dichloro-5-hydroxyphenyl)-delta 2-1,3,4-oxadiazolin-1,3,4,5-one	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
43	3-(3,4-dichlorophenyl)-1-methoxyurea	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
44	3,4-dichloroaniline	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
45	3,4-dichlorophenylurea	11.0			

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
46	6-chloro-2,3-dihydro-benzoxazol-2-one	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
47	Bifenthrin	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
48	Bifenthrin, 4'-hydroxy	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
49	Bis(trichloromethyl)disulfide	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
50	Captan epoxide	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
51	Cyclanilide	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
52	Dialifor	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
53	Dialifor oxon	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
54	Dicamba	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
55	Diuron	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
56	Fenoxaprop ethyl	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
57	N-(3,4-dichlorophenyl)-N'-methylurea	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
58	Oxadiazon	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
59	Oxyfluorfen	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
60	Thiamethoxam	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
61	THPI	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
62	Triadimefon	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
63	Triadimefon metabolite KWG 1323	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
64	Triadimefon metabolite KWG 1342	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
65	Triadimefon metabolite KWG 1732	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
66	Triadimenol (for metabolites see triadimefon)	11.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
67	Cyfluthrin	10.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
68	MB 46136	10.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
69	Octyl bicycloheptene dicarboximide (MGK-264)	10.5	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
70	2-((2-ethyl-6-methylphenyl)-amino)-1-propanol	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
71	4-(2-ethyl-6-methylphenyl)-2-hydroxy-5-methyl-3-morpholinone	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
72	Dioxathion	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
73	Iprodione	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
74	Iprodione isomer	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
75	Iprodione metabolite	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
76	Iprodione metabolite 2	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
77	Metolachlor	10.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
78	Difenoconazole	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
79	Esfenvalerate	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
80	Etridiazole .	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
81	Fenbuconazole	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
82	Fluvalinate	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
83	Kresoxim-methyl	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
84	SD 54597	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
85	Triflumazole	9.8	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
86	2-aminobenzimidazole	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
87	6-methyl-2,3-quinoxalinedithiol	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
88	Abamectin	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
89	Abamectin delta 8,9 geometric isomer	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
90	Allophanate	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
91	Carboxin	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
92	Carboxin sulfoxide	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
93	Ethalfuralin	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
94	ETU	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
95	Isoxaflutole	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
96	Mancozeb	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
97	Maneb	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
98	Metiram	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
99	Piperonyl butoxide	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
100	Pyrazon metabolite A	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
101	Pyrazon metabolite B	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
102	Pyrethrin I	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
103	Quizalofop-ethyl	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
104	TCP=3,5,6-trichloro-2-pyridinol	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
105	Thiophanate methyl	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
106	Triclopyr	9.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
107	3-carboxy-5-ethoxy-1,2,4-thiadiazole	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
108	4-chloro-2-trifluoromethylaniline	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
109	Chlorobenzilate	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
110	Flufenacet (thiafluamide)	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
111	Methyl 3,5-dichlorobenzoate	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
112	N-(4-chloro-2-trifluoromethylphenyl)-propoxyacetamide	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
113	Propyzamide	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
114	Tebuconazole	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
115	Tebufenozide	8.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
116	3-(2-chloro-4-hydroxyphenyl)-6-(2-chlorophenyl)-1,2,4,5-tetrazine	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
117	Bromoxynil	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
118	Clofentezine	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
119	Mepiquat chloride	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
120	Norfluraxon, desmethyl-	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
121	Norflurazon	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
122	Oxythioquinox	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
123	Paraquat dichloride	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
124	Pyrazon	8.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
125	Diphenylamine	7.5	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
126	Fenpropathrin	7.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
127	4-hydrocythidiazuron	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
128	Buprofezin	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
129	Cyclohexylstannoic acid	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
130	Cyhexatin	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
131	Dicyclohexyltin oxide	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
132	Diflubenzuron	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
133	Dipropyl isocinchomerate	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
134	Ethoxyquin	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
135	N-phenylurea	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
136	PB-9	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
137	Pyridaben	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
138	Thidiazuron	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
139	Triphenyltin hydroxide	7.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
140	1,1,3,3,-tetrakis(2-methyl-2-phenylpropyl)-1,3-dihydroxydistannoxane	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
141	2-amino-n-isopropylbenzamide	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
142	Acifluorfen, amino analog	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
143	Bentazon, 6-hydroxy bentazon, 8-hydroxy bentazon	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
144	Chlorsulfuron	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
145	Chlorsulfuron, 5-hydroxy-	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
146	Emamectin	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
147	Fenbutatin Oxide	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
148	Fluazifop-butyl	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
149	Hexazinone	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
150	IN-A3928	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
151	IN-B2838	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
152	IN-T3935	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
153	IN-T3936	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
154	IN-T3937	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
155	Propargite	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
156	Propargite	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
157	SD 31723	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
158	SD 33608	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
159	Sodium acifluorfen	6.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
160	6-chloronicotinic acid	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
161	Benoxacor	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
162	CGA 150829	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
163	CGA 171683	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
164	Dalapon	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
165	Diphenamid	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
166	Diphenamid, desmethyl	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
167	Diquat dibromide	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
168	Imidacloprid	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
169	Nicotine	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
170	NTN33823	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
171	NTN35884	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
172	PB-7	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
173	Primisulfuron-methyl	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
174	Propanil	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
175	WAK4103	6.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
176	6-chloropicolinic acid	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
177	Fenarimol	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
178	Fenarimol metabolite B	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
179	Fenarimol metabolite C	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
180	Fenridazon	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
181	Fluridone	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
182	Nitrapyrin	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
183	Tebuthiuron	5.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
184	Chlorfenapyr	5.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
185	Diflufenzopyr	5.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
186	Tetradifon	5.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
187	2,4-D	4.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
188	Dodine	4.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
189	Flutolanil	4.5	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
190	Myclobutanil, myclobutanil alcohol metabolite, myclobutanol dihydroxy metabolite	4.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
191	Prosulfuron	4.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
192	Difenzoquat	4.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
193	Ethephon	4.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
194	MCPA	4.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
195	Methoprene	4.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
196	2,5-dichloro-4-methoxyphenol	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
197	Chloroneb	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
198	Chloroneb, hydroxy-	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
199	Clofencet	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
200	Glufosinate-Ammonium	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
201	HOE-061517	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
202	HOE-099730	3.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
203	2,3-dihydro-3,3-dimethyl-2-oxo-5-benzofuranyl methyl sulfonate	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
204	2-hydroxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methyl sulfonate	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
205	Butylamine, sec-	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
206	Compound 125670	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
207	Ethofumesate	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
208	Quinclorac	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
209	Sethoxydim	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
210	Sethoxydim hydroxylate sulfone	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
211	Sethoxydim sulfoxide	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
212	Tralkoxydim	3.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
213	3-t-butyl-5-chloro-6-hydroxymethyluracil	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
214	6-chloro-2,3-dihydro-3,3,7-trimethyl-5H-oxazolo(3,2a)pyrimidin-5-one	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
215	6-chloro-2,3-dihydro-7-hydroxymethyl-3,3-dimethyl-5H-oxazolo(3,2-a)pyrimidin-5-one	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
216	Azoxystrobin	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
217	Azoxystrobin Z isomer	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
218	CGA 161149	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
219	CGA 195654	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
220	Cloprop	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
221	Dimethenamid	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
222	Dimethipin	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
223	Fluroxypyr	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
224	Pyradostrobin	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
225	Sulfosulfuron	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
226	Terbacil	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
227	Triasulfuron	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
228	Trifloxystrobin	3.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
229	Maleic hydrazide	2.8	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
230	Clopyralid	2.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
231	Halosulfuron	2.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
232	Picloram	2.5	Not in the 2006 NRP.	Not in the 2006 NRP.	
233	Clethodim		Not in the 2006 NRP.	Not in the 2006 NRP.	
234	Glyphosate-Trimesium	2.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
235	Metsulfuron Methyl	2.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
236	Carfentrazone Ethyl	1.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
237	Fludioxanil	1.8	Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Rank</i>	<i>Compound / Compound Class¹</i>	<i>Score</i>	<i>Status in the 2005 NRP</i>		<i>Total</i>
			<i>Domestic Scheduled Sampling</i>	<i>Import Scheduled sampling</i>	
238	Pyriproxifen	1.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
239	Spinosad	1.8	Not in the 2006 NRP.	Not in the 2006 NRP.	
240	Aminomethylphosphonic acid	1.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
241	Glyphosate	1.3	Not in the 2006 NRP.	Not in the 2006 NRP.	
242	Bensulfuron methyl ester		Not in the 2006 NRP.	Not in the 2006 NRP.	
243	Fluthiacet-Methyl (CGA-248757)	1.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
244	Pymetrozine	1.0	Not in the 2006 NRP.	Not in the 2006 NRP.	
245	Indoxacarb (DPX-MP062)		Not in the 2006 NRP.	Not in the 2006 NRP.	

Table 31
Rank and Status for Pesticides
2006 FSIS NRP, Domestic Scheduled Sampling Plan

Rank	Compound / Compound Class ¹	Score	Status in the 2005 NRP		Total
			Domestic Scheduled Sampling	Import Scheduled sampling	
246	Teflubenzuron				

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, oxychlordane, 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 monooxon, 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.

¹³ Regulatory method is needed; Atrazine, simazine, propazine, terbuthylazine.

¹⁴ Carbaryl 5,6-dihydroxy, chlorpropham, propham, thiobencarb, 4-chlorobenzylmethylsulfone, 4-chlorobenzylmethylsulfone sulfoxide

¹⁵ Method is available.

¹⁶ Method is available.

Table 32
Pesticide Compound/Production Class Pairs, Sorted by Sampling Priority Score, with Adjusted Number of Analyses
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Compound Class</i>	<i>Production Class</i>	<i>Priority Score</i>	<i>Total Samples</i> ¹	<i>Violation Rate (%)</i> ²	<i>Unadjusted Number of Samples</i>	<i>First Adjustment</i> ³	<i>Adjusted Number</i> ⁴	<i>Second Adjustment</i> ⁵	<i>Third Adjustment</i> ⁶	<i>Final</i> ⁷
CHCs/COPs	Young chickens	717.84	3714	0.03	300		300			
CHCs/COPs	Market hogs	294.96	4133	0.00	300		300			
CHCs/COPs	Steers	200.02	3816	0.03	300		300			
CHCs/COPs	Heifers	117.74	3805	0.08	300		300			300
CHCs/COPs	Young turkeys	107.22	3573	0.06	300		300			
CHCs/COPs	Beef cows	50.48	3710	0.08	300		300			300
CHCs/COPs	Egg products	39.65	1685	0.00						
CHCs/COPs	Dairy cows	22.24	3658	0.03	300		300			300
CHCs/COPs	Sows	16.48	3236	0.09	300		300			300
CHCs/COPs	Mature chickens	12.72	2352	0.00	230		230			
CHCs/COPs	Bulls	8.26	2871	0.14	230		230			
CHCs/COPs	Lambs	2.78	3485	0.03	230		230			230
CHCs/COPs	Ducks	2.69	2541	0.00						
CHCs/COPs	Formula-fed veal	1.94	2890	0.00	230		230			
CHCs/COPs	Mature turkeys	1.20	1475	0.07	230		230			
CHCs/COPs	Boars/Stags	1.12	3032	0.36	230	+1	300			300
CHCs/COPs	Equine	0.46	3099	0.35		+1				230
CHCs/COPs	Goats	0.46	3474	0.20	230		230			230
CHCs/COPs	Roaster pigs	0.43	20	0.00	230		230			
CHCs/COPs	Bob veal	0.35	2270	0.09						

Table 32
Pesticide Compound/Production Class Pairs, Sorted by Sampling Priority Score, with Adjusted Number of Analyses
2006 FSIS NRP, Domestic Scheduled Sampling Plan

<i>Compound Class</i>	<i>Production Class</i>	<i>Priority Score</i>	<i>Total Samples</i> ¹	<i>Violation Rate (%)</i> ²	<i>Unadjusted Number of Samples</i>	<i>First Adjustment</i> ³	<i>Adjusted Number</i> ⁴	<i>Second Adjustment</i> ⁵	<i>Third Adjustment</i> ⁶	<i>Final</i> ⁷
CHCs/COPs	Heavy calves	0.30	2662	0.11	230		230			230
CHCs/COPs	Bison	0.19	70	0.00						
CHCs/COPs	non-Formula-fed veal	0.18	1897	0.11	230		230			
CHCs/COPs	Sheep	0.16	2684	0.04	230		230			230
CHCs/COPs	Squab	0.16	81	0.00						
CHCs/COPs	Geese	0.05	112	0.00						
CHCs/COPs	Ratites	0.05	162	0.00						
CHCs/COPs	Rabbits		866	0.12						
Totals					4,930		5,000			2,650

¹ TNS = the total number of samples analyzed in the FSIS Scheduled Sampling Plan (01/01/1995 to 12/31/2004).

² Violation rate for the period 1995-2004 (10 Years). The percent of samples with residue concentrations exceeding the tolerance or action level (or, for a drug whose use was not permitted in the production class in which it was detected, the percent of samples with any detectable residue).

³ Adjustment based on FSIS Historical Testing Information (refer to text discussion in Section 4); +1 level or -1 level. There are two sampling levels: 230 and 300. Sampling levels were increased or decreased based on the rules described in the section, *Design of the Domestic Scheduled Sampling Plan for Pesticides*.

⁴ Number of samples proposed following adjustment for lack of testing information.

⁵ Adjustment for Laboratory Capacity as discussed in the section, *Design of the Domestic Scheduled Sampling Plan for Pesticides*

⁶ Adjustment for Production Volume as discussed in the section, *Design of the Domestic Scheduled Sampling Plan for Pesticides*

⁷ Final adjustment numbers were obtained following an assessment of laboratory capacity and production volume. In addition, FSIS has suspended scheduled sampling for CHCs/COPs in bob veal, horses and minor species (ducks, ratites, geese, rabbits, and squab) for the 2006 NRP

Design of the Import Scheduled Sampling Plan for Pesticides

I. Selecting and Ranking Candidate Pesticides

The list of compounds of concern for the import scheduled sampling plan is identical to that for the Domestic Scheduled Sampling Plan *Table 30*. Furthermore, in ranking pesticides for inclusion in the import scheduled sampling plan, FSIS chose to employ the ranking scores generated for the domestic scheduled sampling plan because FSIS does not have sufficient historical data on pesticides 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 Pesticides

The list of high priority compounds chosen for the import scheduled sampling plan by the Surveillance Advisory Team (SAT) is the same as that for the domestic plan. Once the high-priority compounds and compound classes had been identified, FSIS applied non-public health considerations to determine which compounds FSIS should sample. The principal non-public health factor was the availability of laboratory resources, especially the availability of appropriate analytical methods within the FSIS laboratories. Based on these constraints, only the chlorinated hydrocarbon/chlorinated organophosphate (CHCs/COPs) compound class can be included in the 2006 NRP. The compounds that can be identified by this multiresidue method (MRM) are listed in the section, *Design of the Domestic Scheduled Sampling Plan for Pesticides*.

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

As with the domestic scheduled sampling plan, the import sampling for CHCs and COPs is used as a means of monitoring incidents of accidental and environmental contamination.

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 for egg products, 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 amounts of all product classes imported into the U.S. and the percentage of each of the product classes. The percentage of each product class imported annually is calculated using *Equation 15*.

Equation 15

$$\text{Percent Product Class Imported (P}_C\text{)} \\ = (\text{Amount Product Class Imported} / \text{Total Product Imported}) \times 100$$

The relative sampling priority is obtained by multiplying the percent product class imported (P_C) by the pesticide scores, using *Equation 16*:

<p>Equation 16</p> $\text{Relative Sampling Priority} = (P_C) \times \text{Pesticide Score}$
--

Based on the scores, one of the following sampling options is chosen: (1) high regulatory concern (300 analyses/year); (2) moderate regulatory concern (230 samples/year); or (3) low regulatory concern (90 samples/year). This is indicated in *Table 30, Number of Pesticide Samples/Product Class*, in the column “Number of Samples.”

In the import scheduled sampling plan, FSIS 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 products and are actively exporting to the United States. Processed pork from Belgium, Canada, Denmark, Mexico, Netherlands, processed mutton/lamb products from Australia and New Zealand, Processed veal, chicken, turkey and varied combination products from Canada, processed beef from Australia, Canada, Costa Rica, Mexico, New Zealand and Uruguay 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 processed turkey is imported from only three countries and the amount imported is 0.10 % relative to total U.S. imports, 24 samples of processed turkey would be taken for each analysis, eight from each country.

The adjusted number of samples is listed in *Table 33, Number of Pesticide Samples/Product Class*, in the column labeled “Adjusted 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 33* in the column labeled “Final No. of Samples.” The numbers in columns 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 where the Total Volume Imported is Less Than 1%

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, other fowl fresh, mutton/lamb processed, goat fresh, turkey fresh, turkey processed, chicken fresh, varied

combination fresh and processed are less than 1%. Also, as stated 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 scheduled for the processed products from that country. The numbers of samples per country per product class for each compound/compound class are listed in *Tables 34-48*.

Allocation of Samples in Product Classes where the Total Volume Imported is Greater than 1%

For major product classes, the number of samples was allocated to each country depending upon the relative amount of product imported from that country. *Table 9, 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 was calculated using *Equation 17, Relative Annual Amount of Product Imported/Country*.

<p>Equation 17</p> <p>Percent Product Class Imported per Country ($P_{C/C}$)</p> <p>= (Amount of Product Class from Country / Total Amount of Product Class) x 100</p>

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 *Equation 18*.

<p>Equation 18</p> <p>Unadjusted Number of Samples per Country ($U_{C/S}$)</p> <p>= Total Number of Samples x (($P_{C/C}$) / 100)</p>

This is indicated in the column labeled “Unadjusted Number of Samples ($U_{C/S}$),” in *Tables 34-48*.

After the determining of the number of samples required from each country, each country with less than eight samples was assigned a minimum of eight samples. This is indicated in the column labeled “Adjustment # 1” in *Tables 34-48*. 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 was made only to those countries from which greater than eight samples were to be taken. This adjustment will be accomplished by using the following equation:

Equation 19

Number of Samples after Adjustment # 2 = $(U_{C/S}) - [N \times (P_{C/C}) / (P_{T/C})]$

$N = (N_1) - (N_T)$

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

If a country is exporting both fresh and processed products or sources all of their raw materials from eligible sources, then no residue samples will be processed from that country.

Table 33
Number of Pesticide Samples/Product Class
2006 FSIS NRP, Import Monitoring Plan

No. of Countries	Product	Pesticide	Pesticide Score	Percent Product	Relative Sampling Priority	Number of Samples	Adjusted Number of Samples	Final Number of Samples
9	Beef, fresh	CHC's/COPs	16	0.58	931.90	300	300	300
9	Beef, processed	CHC's/COPs	16	0.05	80.10	90	63	83
1	Chicken, fresh	CHC's/COPs	16	0.01	14.46	90	8	8
4	Chicken, processed	CHC's/COPs	16	0.02	29.10	90	90	24
3	Goat, fresh	CHC's/COPs	16	0.01	7.96	90	24	24
4	Mutton/Lamb, fresh	CHC's/COPs	16	0.04	59.32	90	89	91
5	Mutton/Lamb, processed	CHC's/COPs	16	0.00	0.16	90	24	24
2	Other Fowl, fresh	CHC's/COPs	16	0.00	2.09	90	16	16
4	Other Fowl, processed	CHC's/COPs	16	0.00	0.04	90	32	16
11	Pork, fresh	CHC's/COPs	16	0.22	351.15	230	226	231
14	Pork, processed	CHC's/COPs	16	0.06	89.19	90	90	72
1	Turkey , fresh	CHC's/COPs	16	0.00	1.70	90	8	8
4	Turkey, processed	CHC's/COPs	16	0.00	4.61	90	32	24
1	Varied combination, fresh	CHC's/COPs	16	0.00	0.06	90	8	8
4	Varied combination, processed	CHC's/COPs	16	0.00	4.64	90	32	24
	Total/country			1.00		950	1148	953

Table 34
Number of Samples/Product Class – Pork Processed
2006 FSIS NRP, Import Monitoring Plan

PORK PROCESSED/ CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Argentina	0.02	0	8
Belgium	1.14	1	0 ¹
Brazil	0.05	0	8
Canada	69.00	62	0 ¹
Croatia	0.18	0	8
Denmark	13.00	12	0 ¹
France	0.06	0	8
Germany	0.58	1	8
Hungary	0.76	1	8
Italy	2.93	3	8
Mexico	1.47	1	0 ¹
Netherlands	2.91	3	0 ¹
Poland	6.89	6	8
Spain	0.55	0	8
Total	99.54	90	72

Table 35
Number of Samples/Product Class – Other fowl fresh
2006 FSIS NRP, Import Monitoring Plan

OTHER FOWL FRESH/ CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	99	8	8
France	1	8	8
Total	100	16	16

Table 36
Number of Samples/Product Class – Other fowl Processed
2006 FSIS NRP, Import Monitoring Plan

OTHER FOWL PROCESSED/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	12	8	8
Canada	66	8	0 ¹
France	22	8	0 ¹
Israel	0.04	8	8
Total	100	32	16

Table 37
Number of Samples/Product Class – Mutton/Lamb Processed
2006 FSIS NRP, Import Monitoring Plan

MUTTON/LAMB, PROCESSED/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	36	0	0 ¹
France	0.44	8	8
Mexico	5.4	8	8
New Zealand	39	0	0 ¹
Uruguay	19	8	8
Total	99.84	24	24

Table 38
Number of Samples /Product Class - Goat, Fresh
2006 Import Residue Plan

GOAT, FRESH/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	94	8	8
Mexico	0.01	8	8
New Zealand	5.84	8	8
Total	99.85	24	24

Table 39
Number of Samples /Product Class – Turkey, Fresh
2006 Import Residue Plan

TURKEY, FRESH/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	100	8	8
Total		8	8

Table 40
Number of Samples /Product Class – Turkey, Processed
2006 Import Residue Plan

TURKEY, FRESH/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	64	8	0 ¹
France	0.04	8	8
Israel	10	8	8
Mexico	26	8	8
Total	100	32	24

Table 41
Number of Samples /Product Class – Chicken, Fresh
2006 Import Residue Plan

CHICKEN, FRESH/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	100	8	8
Total		8	8

Table 42
Number of Samples /Product Class – Varied Combination, Fresh
2006 Import Residue Plan

VARIED COMBINATIONS, FRESH/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Canada	100	8	8
Total		8	8

Table 43
Number of Samples /Product Class - Varied Combination, Processed
2006 FSIS NRP, Import Monitoring Plan

VARIED COMBINATION, PROCESSED/CHC/COP	PERCENT PRODUCT	UNADJUSTED NUMBER OF SAMPLES	FINAL NUMBER OF SAMPLES
Australia	0.15	8	8
Canada	82.42	8	0 ¹
France	0.25	8	8
Mexico	17.16	8	8
Total	99.98	8	8

Table 44
Number of Samples/Product Class - Beef, Fresh
2006 FSIS NRP, Import Monitoring Plan

BEEF, FRESH/CHC/COP	PERCENT PRODUCT (P _{C/C})	UNADJUSTED NUMBER OF SAMPLES (U) = 300*[(P _{C/C})/100]	ADJUSTMENT #1 (8 MINIMUM/COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Australia	33.19	99.57	0	100	90	90
Canada	31.6	94.8	0	95	85	85
Costa Rica	0.72	2.16	8	8	8	8
Honduras	0.14	0.42	8	8	8	8
Mexico	0.53	1.59	8	8	8	8
New Zealand	18.34	55.02	0	55	49	49
Nicaragua	1.95	5.85	8	8	8	8
United Kingdom	0.07	0.21	8	8	8	8
Uruguay	13.46	40.38	0	40	36	36
Total	100	300	40	330	300	300

Table 45
Number of Samples/Product Class - Beef, Processed
2006 FSIS NRP, Import Monitoring Plan

BEEF, PROCESSED/ CHC/COP	PERCENT PRODUCT (P_{CC})	UNADJUSTED NUMBER OF SAMPLES (U) = 90*[(P_{CC})/100]	ADJUSTMENT #1 (8 MINIMUM/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Argentina	30.00	27.00	0	27	26	26
Australia	1.00	0.90	0	0	0	0 ¹
Brazil	56.00	50.40	0	50	49	49
Canada	3.40	3.06	0	0	0	0 ¹
Costa Rica	0.02	0.02	0	8	0	0 ¹
France	0.03	0.03	8	8	8	8
Mexico	3.30	2.97	0	0	0	0 ¹
New Zealand	2.60	2.34	0	0	0	0 ¹
Uruguay	3.90	3.51	0	0	0	0 ¹
Total	100.25	63.23	8	93	84	83

Table 46
Number of Samples/Product Class - Pork, Fresh
2006 FSIS NRP, Import Monitoring Plan

PORK, FRESH/ CHC/COP	PERCENT PRODUCT (P_{CC})	UNADJUSTED NUMBER OF SAMPLES (U_{CS}) = 230*[(P_{CC})/100]	ADJUSTMENT #1 (8 MINIMUM/ COUNTRY)	INITIAL ADJ.#	ADJUST. # 2	FINAL ADJ.#
Australia	0.02	0.05	8	8	8	8
Belgium	0.01	0.01	8	8	8	8
Canada	84.00	193.20	193	193	139	139
Denmark	12.00	27.60	27	27	20	20
Finland	0.56	1.29	8	8	8	8
Ireland	0.59	1.36	8	8	8	8
Mexico	0.20	0.46	8	8	8	8
Netherlands	0.42	0.97	8	8	8	8
New Zealand	0.00	0.01	8	8	8	8
N. Ireland	0.19	0.44	8	8	8	8
Sweden	0.14	0.32	8	8	8	8
Total	98.13	225.70	292	292	230.8	231

Table 47
Number of Samples /Product Class - Lamb/Mutton, Fresh
2006 FSIS NRP, Import Monitoring Plan

LAMB/ MUTTON, FRESH/ CHC/COP	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	65	58.5	0	58	49	49
Canada	0.35	0.315	8	8	8	8
Iceland	0.13	0.117	8	8	8	8
New Zealand	34	30.6	0	30	26	26
Total	99.48	89.532	16	104	91	91

Table 48
Number of Samples/Product Class - Chicken, Processed
2006 FSIS NRP, Import Monitoring Plan

CHICKEN, PROCESSED/ CHC/COP	PERCENT PRODUCT (P_{C/C})	UNADJUSTED NUMBER OF SAMPLES (U)= 90*[(P_{C/C})/100]	ADJUSTMENT #1 (8 MINIMUM/ COUNTRY)	INITIAL ADJ.#	ADJUST.# 2	FINAL ADJ.#
Canada	94	84.6	0	0	0	0 ¹
France	0.01	0.009	8	8	8	8
Israel	1.75	1.575	8	8	8	8
Mexico	4.42	3.978	8	8	8	8
Total	100.18	90.162	24	24	24	24