



Pesticide Data Program

Annual Summary, Calendar Year 2006

United States
Department of
Agriculture

Agricultural
Marketing
Service

Science and Technology
Programs



Visit the program Web site at: www.ams.usda.gov/pdp

December 2007



United States
Department of
Agriculture

Marketing and
Regulatory
Programs

Agricultural
Marketing
Service

1400 Independence Ave.
Washington, DC
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To the Reader:

I am pleased to present the Pesticide Data Program's (PDP) 16th Annual Summary, that includes data from calendar year 2006. PDP data continue to demonstrate that the Nation's food supply is among the safest in the world.

The U.S. Department of Agriculture implemented PDP in May 1991. Since then, PDP has tested a wide range of commodities in the U.S. food supply. Using a rigorous statistical approach to sampling and the most current laboratory methods, PDP has tested fresh and processed fruit and vegetables, grains and grain products, nuts (almonds initiated in 2007), milk and dairy products, beef, pork, poultry, drinking water, bottled water, and groundwater for pesticide residues.

PDP data are essential for the implementation of the 1996 Food Quality Protection Act, that directs the Secretary of Agriculture to collect pesticide residue data on foods that are highly consumed by infants and children. The U.S. Environmental Protection Agency (EPA) uses PDP data as a critical component for dietary assessments of pesticide exposure. The extensive and reliable PDP results provide realistic exposure information to the EPA assessment process.

PDP is a partnership with cooperating State agencies that are responsible for sample collection and analysis. Twelve States participated in the program during 2006: California, Colorado, Florida, Maryland, Michigan, Minnesota, Montana, New York, Ohio, Texas, Washington, and Wisconsin. Sound conclusions about the U.S. food supply can be drawn from PDP results because together the sampling States represent all regions of the country and over half of the Nation's population.

The format of this Annual Summary is intended to provide the reader with thorough and accurate information. A detachable form is included following this letter for your comments and suggestions on how we can further improve this summary.

Sincerely,

Lloyd C. Day
Administrator



AMS-Agricultural Marketing Service

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The States participating in the Pesticide Data Program (PDP) deserve special recognition for their contributions to the program. The dedication and flexibility of sample collectors allow the Agricultural Marketing Service (AMS) to adjust sampling protocols when responding to changing trends in commodity distribution and availability. PDP acknowledges the contributions of the State laboratories, U.S. Department of Agriculture's (USDA) AMS National Science Laboratory, and the Grain Inspection, Packers, and Stockyards Administration Laboratory in providing testing services to the program, and the National Agricultural Statistics Service for providing statistical support. PDP also acknowledges the exceptional support of the Health Effects Division staff of the U.S. Environmental Protection Agency, Office of Pesticide Programs, in helping set the direction for PDP.

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Executive Summary

In 1991, the U.S. Department of Agriculture (USDA) Agricultural Marketing Service (AMS) was charged with designing and implementing the Pesticide Data Program (PDP) to collect data on pesticide residues in food. This 16th summary presents results for samples collected in 2006.

Program Operations: AMS, through its Monitoring Programs Office (MPO), oversees the planning and policy development for PDP. MPO meets regularly with the U.S. Environmental Protection Agency (EPA) and other stakeholders (e.g., industry and grower groups) to establish program priorities and direction. Participating States have a prominent role in program planning activities and policy establishment, particularly policies relating to Quality Assurance (QA). The USDA National Agricultural Statistics Service (NASS) provides sampling support to PDP and statistically reliable data on chemical usage at the State level and collects economic data that link chemical usage with economic characteristics.

Data Uses: PDP data are used primarily by EPA to prepare realistic pesticide dietary exposures and continue pesticide re-registration activities in accordance with the 1996 Food Quality Protection Act (FQPA). PDP provides high-quality data on residues in food, particularly foods most likely consumed by infants and children, including minor crops. Minor crops are those grown on 300,000 acres or less in the U.S. – for example, many fruit and vegetable crops are defined as minor crops.

PDP data are also used by the U.S. Food and Drug Administration (FDA), USDA's Economic Research Service (ERS) and Foreign Agricultural Service (FAS), participating States, academic institutions, chemical manufacturers, environmental interest groups, food safety organizations, and groups within the private sector representing food producers. PDP data are used by the U.S. Government and the agricultural community to examine pesticide

residue issues affecting agricultural practices, integrated pest management and U.S. trade, particularly in the competitive global market. PDP additionally provides support for USDA's participation in the Codex Alimentarius Commission.

Risk Assessment: In estimating the potential risks of consumption of pesticide residues from food, EPA uses a step-wise tiered approach. As a first step, EPA may use a conservative, worst-case scenario and assume that a pesticide is applied to the fullest extent permitted by the pesticide label; that is, on every acre of each approved crop at the maximum rate and frequency allowed. EPA may also assume that residues on treated crops are present at the maximum allowable level. Exposure estimates based on such assumptions are likely to significantly exceed actual exposure. When an initial assessment indicates a potential risk, EPA refines its assessment using more realistic exposure data. Refinements may include the use of additional data such as: (1) the percent of a crop treated with a pesticide; (2) studies of the effects of washing, cooking, processing, and storage; and (3) residue monitoring data. During the refinements of this exposure assessment, PDP data can be pivotal. PDP sampling procedures were designed to capture residues in the food supply as close as possible to the time of consumption. PDP concentrates its efforts to provide realistic pesticide residue data on foods that are most often consumed by infants and children and incorporates recommendations made in 1993 by the National Academy of Sciences (NAS) in its report "*Pesticides in the Diets of Infants and Children.*"

Participants: In 2006, sampling and/or testing program operations were carried out with the support of 12 States: California, Colorado, Florida, Maryland, Michigan, Minnesota, Montana, New York, Ohio, Texas, Washington, and Wisconsin. Grain sampling was performed by USDA's Grain Inspection, Packers, and Stockyards Administration (GIPSA) and poultry

sampling by USDA's Food Safety and Inspection Service (FSIS). Two Federal laboratories also provided testing services: USDA's AMS National Science Laboratory and USDA's GIPSA Laboratory. Participating water utilities provided drinking water samples which were tested by the Colorado, Montana, and New York State laboratories. Bottled water samples were collected at food distribution centers and tested by the Minnesota laboratory. MPO is responsible for administering the program, coordinating sampling activities, directing technical performance issues and quality assurance measures, and managing database activities.

Sampling: PDP commodity sampling is based on a rigorous statistical design which ensures that the data are reliable for use in exposure assessments and that they can be used to draw various conclusions about the Nation's food supply. Pesticides and commodities included each year in PDP are selected based on EPA data needs and on information about the types and amounts of food consumed by infants and children. Fruit and vegetable, peanut butter, and bottled water samples collected by each of the 10 sampling States (California, Colorado, Florida, Maryland, Michigan, New York, Ohio, Texas, Washington, and Wisconsin) are apportioned according to that State's population. Samples are randomly chosen close to the time and point of consumption (i.e., distribution centers rather than at farmgate) and reflect what is typically available to the consumer throughout the year. Samples are selected without regard to country of origin, variety, or organic labeling. The monthly sampling rate is 62 samples per commodity, except for highly seasonal commodities. For seasonal commodities, sampling rates are adjusted to reflect market availability. Sampling rates for grain and meat are based on production.

Results: During 2006, PDP tested fresh and processed fruit and vegetables, peanut butter, wheat grain, poultry, bottled water, and treated (finished) and untreated drinking water for various insecticides, herbicides, fungicides, and growth regulators. Of the 13,658 total samples

collected and analyzed, 9,818 were fruit and vegetable commodities including applesauce, bananas, broccoli, carrots, cauliflower, cranberries, eggplant, grapefruit, greens (collard/kale), orange juice, peaches, fresh and dried plums (prunes), frozen potatoes, raisins, spinach, summer squash, frozen sweet peas, watermelon, and winter squash. PDP also tested 739 peanut butter, 687 wheat grain, 1,310 poultry (paired breast/thigh samples), 367 bottled water, and 737 treated (finished) and untreated drinking water samples.

Excluding drinking water samples, which were all from U.S. sources, approximately 80 percent of all samples tested were from U.S. sources, 18 percent were imports, 1 percent were of mixed origin, and 1 percent were of unknown origin. Approximately 32 percent of the orange juice samples were of mixed national origin.

Overall, 64 percent of fresh fruit and vegetables and 59 percent of processed fruit and vegetables showed detectable residues. Residues were detected in 30 percent of the peanut butter samples, 69 percent of wheat grain samples, 7 percent of the poultry breast and thigh samples, and 19 percent of the bottled water samples.

Excluding drinking water, 46 percent of all samples tested contained no detectable pesticides [parent compound and metabolite(s) combined], 28 percent contained 1 pesticide, and 26 percent contained more than 1 pesticide. Low levels of environmental contaminants were detected in broccoli, carrots, kale greens, peaches, frozen sweet peas, spinach, watermelon, winter squash, peanut butter and poultry at concentrations well below levels that trigger regulatory actions.

Excluding samples for which no tolerances are set (bottled water and treated/untreated drinking water), residues exceeding the tolerance were detected in 0.2 percent of the 12,554 samples tested in 2006 – 31 samples with 1 residue each. A tolerance is the maximum amount of a pesticide residue allowable on a raw agricultural commodity. Established tolerances are listed in the Code of Federal Regulations, Title 40, Part

180. Residues with no established tolerance were found in 3.1 percent of the samples (367 samples with 1 residue each, 17 samples with 2 residues each, 2 samples with 3 residues each, and 1 sample with 4 residues). In most cases, these residues were detected at very low levels and some residues might have resulted from spray drift or crop rotations. PDP communicates these findings to FDA when they are reported by testing laboratories.

For bottled water, 12 different residues from 6 different pesticides were detected. Most samples with detectable residues contained only a single pesticide or metabolite. All detections were well below established FDA Standards of Quality (SOQs). In finished drinking water, PDP detected low levels (measured in parts per trillion) of some pesticides, primarily widely used herbicides and their metabolites. Forty-eight different residues were detected in the untreated intake water and 39 in the treated water. The majority

of pesticides, metabolites, and isomers included in the PDP testing profiles were not detected. None of the detections in the finished water samples exceeded established EPA Maximum Contaminant Levels (MCL) or Health Advisory (HA) levels or established Freshwater Aquatic Organism (FAO) criteria.

Data Availability: PDP continuously strives to improve methods for the collection, testing, and reporting of data. These data are freely available to EPA and other Federal and State agencies charged with regulating and setting policies on the use of pesticides. They also are available to all stakeholders by hard copy, Internet, or custom reports generated by MPO. Additional copies of the PDP Annual Summary may be obtained by calling MPO at (703) 330-2300 or by mailing the form provided at the end of this report. This publication, the PDP database file for 2006, and annual summaries and database files for previous years are available on the PDP Web site at www.ams.usda.gov/pdp.

Acronyms and Abbreviations

% C.V.	Percent Coefficient of Variation
AMS	Agricultural Marketing Service
BQL	Below Quantifiable Level
EMRL	Extraneous Maximum Residue Limit
EPA	Environmental Protection Agency
ERS	Economic Research Service
ESA	Ethane Sulfonic Acid
e-SIF	Electronic-Sample Information Form
FAO	Freshwater Aquatic Organism
FAS	Foreign Agricultural Service
FDA	Food and Drug Administration
FSIS	Food Safety and Inspection Service
FQPA	Food Quality Protection Act
GC	Gas Chromatography
GIPSA	Grain Inspection, Packers, and Stockyards Administration
GLP	Good Laboratory Practices
HA	Health Advisory
LC	Liquid Chromatography
LIB	Laboratory Information Bulletin
LOD	Limit of Detection
LOQ	Limit of Quantitation
MCL	Maximum Contaminant Level
MPO	Monitoring Programs Office
MRL	Maximum Residue Limit
MRM	Multiresidue Method
MS	Mass Spectrometry
NAS	National Academy of Sciences
NASS	National Agricultural Statistics Service
NSL	National Science Laboratory
OA	Oxanilic Acid
PAM	Pesticide Analytical Manual
PDP	Pesticide Data Program
ppm	parts per million

PT	Proficiency Testing
QA	Quality Assurance
QAO	Quality Assurance Officer
QAU	Quality Assurance Unit
QC	Quality Control
RDE	Remote Data Entry
SIF	Sample Information Form
SOP	Standard Operating Procedure
SOQ	Standards of Quality
SPE	Solid Phase Extraction
SSL	Secure Sockets Layer
TPM	Technical Program Manager
USDA	United States Department of Agriculture
USGS	United States Geological Survey

Pesticide Data Program (PDP)

Annual Summary, Calendar Year 2006

This summary consists of the following sections: (I.) Introduction, (II.) Sampling Operations, (III.) Laboratory Operations, (IV.) Database Management, and (V.) Sample Results and Discussion

I. Introduction

The Pesticide Data Program (PDP), which was initiated in 1991 to collect data on pesticide residues in food, now has an important role in the implementation of the 1996 Food Quality Protection Act (FQPA). This law directs the Secretary of Agriculture to collect pesticide residue data on commodities most frequently consumed by infants and children. PDP data are used primarily by the U.S. Environmental Protection Agency (EPA) to assess dietary exposure during the review of the safety of existing pesticide tolerances (Maximum Residue Limits).

Because PDP collects data on food commodities primarily for exposure assessment, program operations differ markedly from those followed by regulatory monitoring programs for tolerance enforcement. PDP samples are collected closer to the point of consumption and are prepared emulating consumer practices. Sampling is based on EPA data needs and does not impede commodity distribution. Laboratory operations are designed to achieve the lowest detectable levels rather than quick sample turnaround. As a dietary risk assessment support program, PDP focuses its pesticide testing on registered uses for the commodities in the program rather than screening for all potential illegal uses.

Figure 1(a) illustrates PDP program policy development and planning operations. Primary contributors to these activities include the participating States, EPA, USDA's National Agricultural Statistics Service (NASS), and additional stakeholders including industry and grower groups. Figure 1(b) depicts PDP primary data users including EPA, the U.S. Food and Drug Administration (FDA), USDA's Economic Research Service (ERS) and Foreign

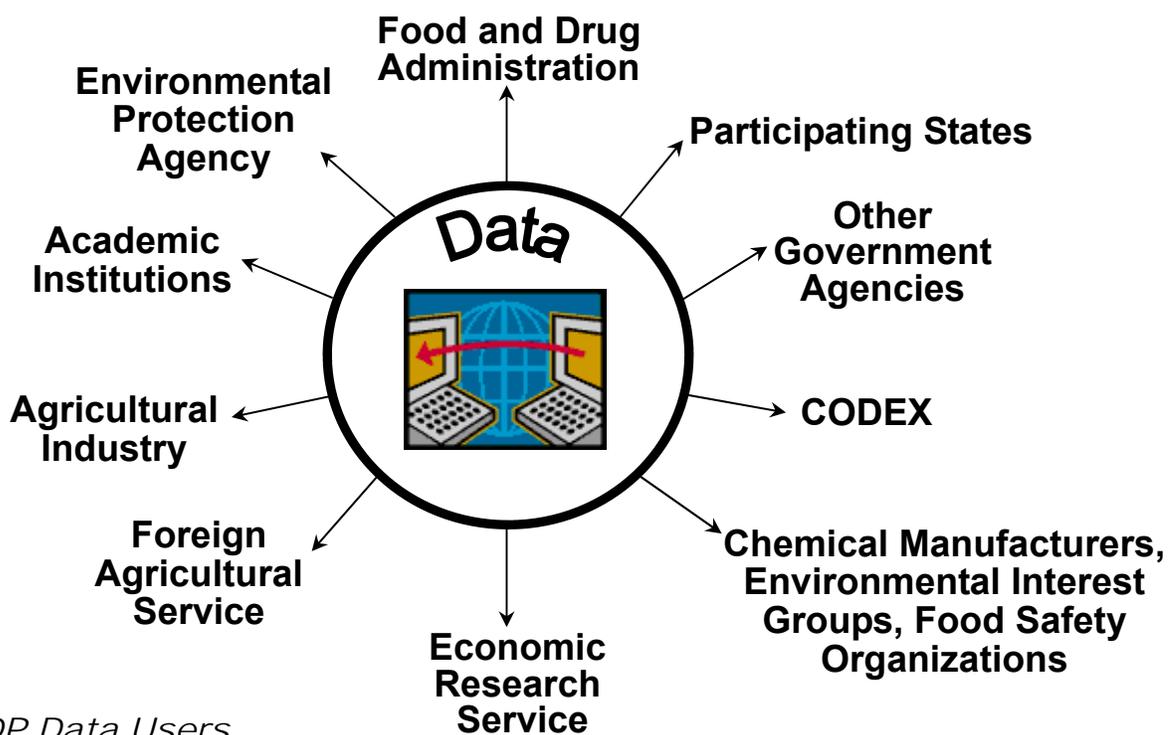
Agricultural Service (FAS), participating States, academic institutions, chemical manufacturers, environmental interest groups, food safety organizations, and groups within the private sector representing food producers. Additionally, other Federal, State and foreign government agencies and industry have used PDP data to promote the export of U.S. commodities to international markets, and the Codex Alimentarius Committee on Pesticides Residues has proposed PDP methodologies for international adoption.

In 2006, sampling services were provided by 10 States (California, Colorado, Florida, Maryland, Michigan, New York, Ohio, Texas, Washington, and Wisconsin); the USDA Grain Inspection, Packers, and Stockyards Administration (GIPSA); and the USDA Food Safety Inspection Service (FSIS). Additional sampling services were provided by participating drinking water facility personnel in 15 States (Alabama, Arizona, California, Florida, Georgia, Iowa, Louisiana, Michigan, Minnesota, Missouri, Montana, New Jersey, North Dakota, Pennsylvania, and South Carolina) and the District of Columbia. Laboratory services were provided by the States of California, Colorado, Florida, Michigan, Minnesota, Montana, New York, Ohio, Texas, and Washington; the Agricultural Marketing Service (AMS) National Science Laboratory (NSL); and the GIPSA Laboratory. The AMS Monitoring Programs Office (MPO) is responsible for overall management of PDP.

Figure 2 shows the States that participate in program sampling and/or testing as well as the States in their direct distribution network. Together, these States represent about 50 percent of the Nation's population and all 4 census regions of the U.S. These States also represent major producers of fruit and



(a) PDP Policy and Planning Contributions



(b) PDP Data Users

Figure 1. PDP Program Operations Support and Data Users. This figure illustrates (a) agencies/groups that support PDP program policy and planning activities, and (b) agencies/groups that use PDP data.

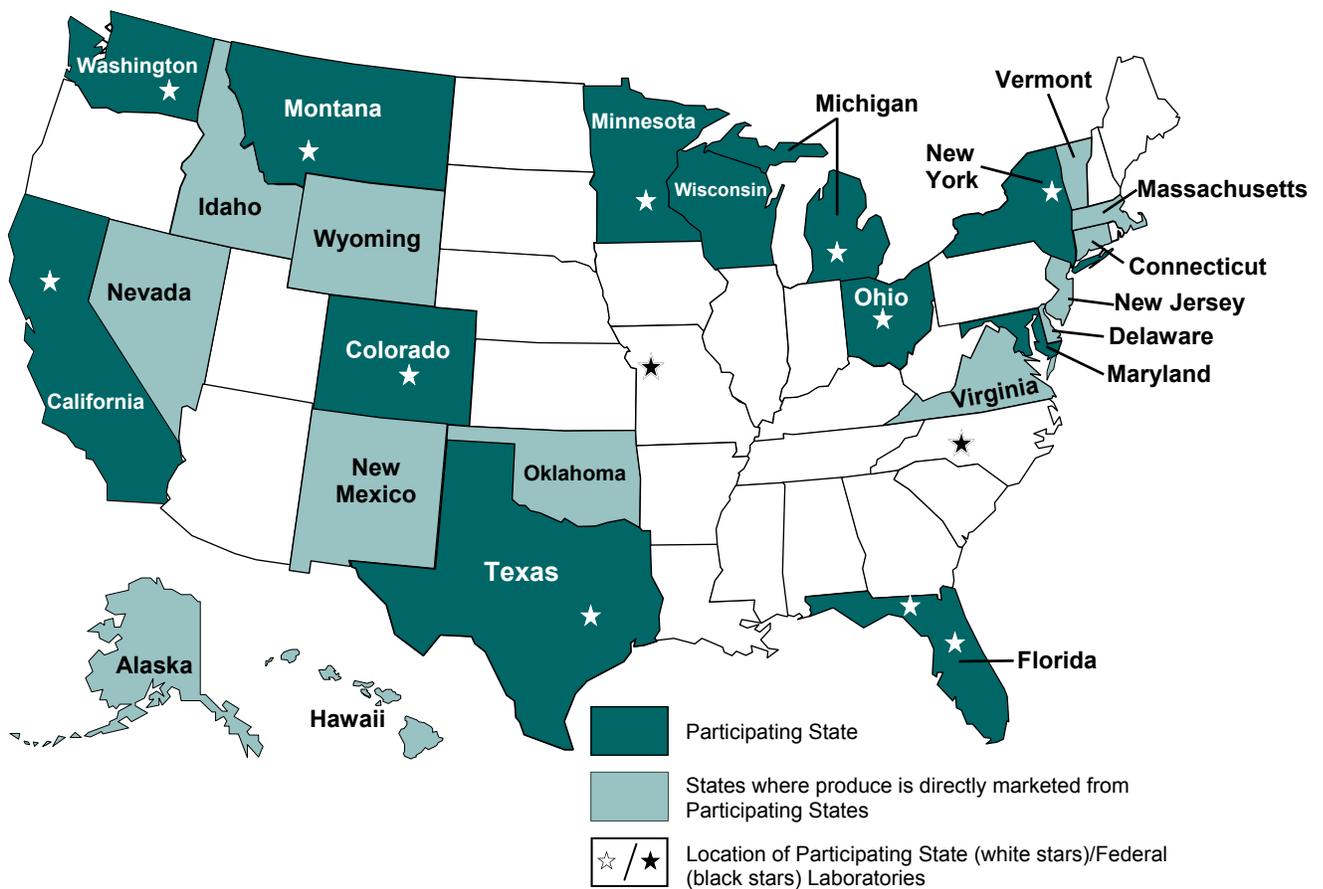


Figure 2. Program Participants. During 2006, AMS established cooperative agreements with 12 States to sample and/or test PDP commodities. State laboratories are responsible for analyzing fresh and processed fruit and vegetable samples and drinking water samples. The Federal laboratory in Gastonia, North Carolina, analyzes meat, poultry, and dairy products, and the Federal laboratory in Kansas City, Missouri, analyzes whole and processed grain products. States that do not participate in PDP’s sampling program but are in the direct distribution networks of the participating States also are shown.

vegetables in the U.S. AMS works closely with EPA to select commodities and pesticides for testing and in the selection of drinking water sites. The commodities selected are those representing the highest U.S. consumption, with an emphasis on foods consumed by infants and children. Appendix A provides a list of commodities tested by PDP from the beginning of the program in 1991 through 2007.

Fruit and vegetable samples are collected at terminal markets and large chain store distribution centers from which food commodities are supplied to supermarkets and grocery stores. Sampling at these locations allows for residue measurements that include pesticides applied during crop production and those applied after

harvest (such as fungicides and growth regulators) and takes into account residue degradation while food commodities are in storage. Participation as a PDP sampling site is voluntary, which sets it apart from State and Federal enforcement programs. In 2006, more than 700 sites granted access and provided information, including site volume data, to sample collectors. This voluntary cooperation is important to PDP and makes it possible to adjust sampling protocols in response to fluctuations in food distribution and production.

Whole grain samples are collected by trained USDA GIPSA inspectors. Poultry samples are collected from designated slaughter facilities by trained USDA FSIS inspection program

personnel. Treated and untreated drinking water samples are collected on-site by trained water-treatment personnel at selected water treatment facilities across the country.

Pesticides screened by PDP include those with current registered uses and compounds for which toxicity data and preliminary estimates of dietary exposure indicate the need for more extensive residue data. PDP also monitors pesticides for which EPA has instituted modified use directions (i.e., reduced application rates or frequency) as part of risk management activities. The following appendices list the specific pesticides tested in the program: fruit and vegetables (Appendix B), peanut butter (Appendix C), wheat (Appendix D), poultry (Appendix E), bottled water (Appendix F), and drinking water (Appendix G).

II. Sampling Operations

◆ Background

The goal of the PDP sampling program is to obtain a statistically defensible representation of the U.S. food supply. PDP data reflect actual pesticide residue exposure from food. Using a rigorous statistical design, PDP has developed extensive procedures to ensure that samples are randomly selected from the national food distribution system and reflect what is typically available to the consumer.

Fruit, vegetables, peanut butter, and bottled water are randomly collected by trained State inspectors at terminal markets and large chain store distribution centers throughout the country. Surrogate or “proxy” sites (retail markets) are occasionally used to collect these samples when the commodity of interest is unavailable at a terminal market or distribution center. In these instances, the commodity is selected in the rear storage area of the retail facility so that possible contamination by the consumer is eliminated and to allow capture of sample information from the product boxes. In 2006, 8.9 percent of fruit, vegetable, peanut butter, and bottled water samples were collected at proxy sites. The

commodities most often collected at these facilities were bottled water and processed commodities.

Wheat grain samples are collected from trains, trucks, and barges by trained USDA GIPSA inspectors. Poultry samples are collected from designated slaughter facilities by trained USDA FSIS inspection program personnel. Treated and untreated drinking water samples are collected on-site by trained water-treatment personnel at selected water treatment facilities across the country.

At all sampling locations, information is usually available about the identity and origin of the sample. Sample information is captured at the time of sample collection for inclusion in the PDP database. PDP sample origin data identify the State or country where the commodity was produced. A comparison of PDP sample origin data to State production and import data by USDA’s NASS shows that PDP sampling is representative of the U.S. food supply. PDP sampling operations are adjusted according to product availability. The number of fruit, vegetable, peanut butter, and bottled water samples collected in each participating State is determined by State population. The number and location of collected wheat and poultry samples are determined by annual domestic production figures. The number and location of drinking water samples from water treatment facilities are determined by EPA pesticide registration information needs. Each local watershed has its own unique characteristics; therefore, sample collection for this commodity is not intended to reflect national trends. In this case, PDP collects samples in areas where it is known that targeted pesticides are heavily used. The quarterly collection schedule for all 2006 commodities is shown in Table 1.

PDP State sample collectors are trained to adhere to detailed program Standard Operating Procedures (SOPs) that provide criteria for site selection and specific instructions for sample selection, shipping and handling, and chain-of-custody. SOPs are updated as needed and serve

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Applesauce					Dec-06
Bananas					Dec-07
Broccoli					Sep-08
Carrots					Dec-07
Cauliflower					Sep-06
Cranberries					Dec-06
Eggplant					Dec-06
Grapefruit					Dec-06
Greens, Collard & Kale					Sep-08
Orange Juice					Sep-06
Peaches					Sep-08
Peanut Butter					Dec-06
Peas					Dec-06
Plums, Dried (prunes)					Dec-06
Plums, Fresh*					Dec-06
Potatoes					Dec-07
Poultry					Dec-06
Raisins					Jun-07
Spinach**					Sep-06
Squash, Summer					Sep-08
Water, Bottled					Dec-06
Water, Finished					Ongoing
Water, Untreated					Ongoing
Watermelon					Sep-06
Wheat Grain***					Jun-06
Winter Squash					Jun-06

* Dried plums (prunes) were collected if fresh plums were unavailable.

** Spinach collection ended 3 months earlier than planned due to the unavailability of the product in the aftermath of the *E.coli* outbreak.

*** Wheat was collected in the 2005 Crop Year, Aug 2005-Jun 2006 and continued for the remainder of the year for the 2006 Crop Year.

Table 1. PDP Commodity Collection Schedule for 2006. *Samples most often are collected for a 2-year time period. Commodities are initiated or terminated in different quarters of the year, so that new commodities are not brought into the program all at the same time. This table illustrates time ranges for the listed commodities. See Appendix A for the complete PDP commodity history from May 1991 through December 2007.*

as a technical reference in conducting program sampling reviews to ensure that program goals and objectives are met. SOPs for PDP sampling are available on the Internet at www.ams.usda.gov/pdp.

Temperature-sensitive samples are packed in heavy-duty, temperature-controlled containers. Holding temperatures are preserved throughout transit time with the inclusion of ample frozen cold packs and insulating materials. Non-temperature-sensitive samples do not require temperature-controlled containers; however, they are shipped in heavy-duty, well-cushioned containers. Samples are shipped the same day as collection by overnight delivery to preserve sample integrity. Wheat samples are collected in pesticide-free polyethylene bags and are shipped in canvas pouches or boxes to the laboratory where the samples are refrigerated pending analysis. Poultry samples are collected in pesticide-free polyethylene bags, frozen overnight, and shipped by next-day delivery to the laboratory for analysis. Drinking water samples from water treatment plants are collected in specially prepared bottles containing dechlorinating agents to halt any potential compound degradation, packed with proper cushioning and cold packs, and shipped the same day as collection to their respective laboratory by overnight delivery.

Electronic Sample Information Forms (e-SIFs) are used for chain-of-custody and to capture information needed to characterize the sample. Sample collectors use handheld or laptop computers in the field to record sample identification information such as: (1) State of sample collection, (2) collection date, (3) sampling site code, (4) commodity code, and (5) testing laboratory code. Information from these five data elements is combined to form a unique PDP sample identification number for each sample. Other available information about each sample is also recorded, such as collector name, the State or country of origin, product variety, production claims such as organic, post-harvest chemical applications, and grower, packer, and/or distributor locations. The e-SIFs are emailed the

same day as sample collection or, at the latest, by 8:00 a.m. the morning after collection to ensure that sample information is received at each laboratory by the time samples arrive for analysis. Refer to Section IV on Database Management for more information on the e-SIF system.

◆ Fresh and Processed Fruit and Vegetables

Of all samples collected and analyzed in 2006, 72 percent (9,818 of 13,658) were fruit and vegetables, including fresh and processed products. The fresh commodities collected for PDP were bananas, broccoli, carrots, cauliflower, cranberries, eggplant, grapefruit, greens (collard greens and kale), peaches, plums, spinach, summer squash, watermelon, and winter squash. The processed commodities included applesauce, orange juice (ready-to-serve and frozen), dried plums (prunes), frozen potatoes, raisins, and frozen sweet peas. All fresh fruit and vegetable samples weighed either 3 or 5 pounds (3 pounds were collected for low-weight commodities such as greens and spinach and 5 pounds were collected for larger, high-weight commodities such as eggplant and grapefruit). For relatively large-sized commodities, such as cauliflower, eggplant, grapefruit, and summer squash, a minimum of two units were collected to maintain sample representativeness. An exception for these large-sized commodities was watermelon; only one unit was collected per sample because of its unusually heavy shipping weight. The weights or volumes of processed commodities varied by commodity: applesauce, frozen potatoes, and frozen sweet peas - 3 pounds; orange juice - 1 quart; and dried plums and raisins - 15 ounces.

Participating State agencies compile and maintain lists of sampling sites. The States provide AMS and NASS with annual volume information for commodities distributed at each site. This information is used to weight the site to determine the probability for sample selection. For example, a weight of 10 may be given to a site that distributes 100,000 pounds of produce

Fresh Fruit and Vegetables																Total Fresh
State	BN	BR	CA	CF	CR	EP	GF	GK	GL	PC	PU	SP	SS	WM	WS	
California	168	41	30	126	168	167	168	31	11	15	99	113	42	127	84	1,390
Colorado	24	6	8	18	24	24	24	1	5	3	17	18	6	-	12	190
Florida	84	21	62	63	84	84	84	7	14	17	53	57	21	189	42	882
Maryland	48	12	16	36	48	48	48	6	6	4	38	32	12	24	24	402
Michigan	72	18	28	54	72	72	72	8	10	10	55	47	18	-	36	572
New York	108	27	40	81	108	107	108	17	10	12	89	72	27	42	54	902
Ohio	70	18	56	54	72	72	72	10	8	5	46	53	18	-	36	590
Texas	96	24	33	72	96	94	96	10	13	16	75	70	24	168	45	932
Washington	48	12	35	36	48	48	47	4	8	5	28	34	12	-	24	389
Wisconsin	24	6	8	18	24	24	24	4	1	3	15	15	6	-	12	184
	742	185	316	558	744	740	743	98	86	90	515	511	186	550	369	6,433

State	Processed Fruit and Vegetables						Total Processed	Total Fresh & Processed F&V	Nut Product PB	Water Product WB
	AC	OJ	PD	PS	PZ	RA				
California	168	125	66	168	168	84	779	2,169	166	88
Colorado	24	18	7	24	24	12	109	299	24	14
Florida	84	63	31	84	84	42	388	1,270	83	36
Maryland	48	36	8	48	48	24	212	614	48	25
Michigan	72	54	17	72	72	36	323	895	72	35
New York	108	81	19	108	108	54	478	1,380	108	48
Ohio	72	54	26	72	72	36	332	922	70	36
Texas	96	72	21	96	96	48	429	1,361	96	49
Washington	48	36	20	48	48	24	224	613	48	24
Wisconsin	24	18	9	24	24	12	111	295	24	12
	744	557	224	744	744	372	3,385	9,818	739	367

Commodity Legend		
AC = Applesauce	GK = Greens, Kale	PZ = Potatoes, Frozen
BN = Bananas	GL = Greens, Collard	RA = Raisins
BR = Broccoli	OJ = Orange Juice	SP = Spinach
CA = Cranberries	PB = Peanut Butter	SS = Summer Squash
CF = Cauliflower	PC = Peaches	WB = Bottled Water
CR = Carrots	PD = Plums, Dried (Prunes)	WM = Watermelon
EP = Eggplant	PS = Sweet Peas, Frozen	WS = Winter Squash
GF = Grapefruit	PU = Plums	

Table 2. Distribution of Samples Collected and Analyzed by Each Participating State. This table includes those commodities collected at terminal markets and distribution centers. The distribution of wheat, poultry, and drinking water samples can be found in Figures 5, 6, and 7 respectively.

annually and a weight of 1 is given to a site that distributes 10,000 pounds. The probability-proportionate-to-size method of site selection then results in the larger site being 10 times more likely to be selected for sampling than the smaller site.

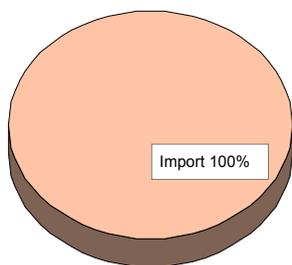
Participating States work with NASS to develop statistical procedures for site weighting and selection. States are also given the option to have NASS perform their quarterly site selection. The number of sampling sites and the volume of produce distributed by the sites vary greatly between States. Sampling plans that include sampling dates, sites (primary and alternate), targeted commodities, and testing laboratories

are prepared by each State on a quarterly basis. Collection of commodities is randomly assigned to weeks of the month, prior to selection of specific sampling dates within a week. Because sampling sites are selected for an entire quarter, States may assign the sites to particular months based on geographic location.

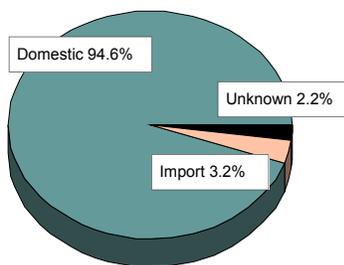
State population figures are used to assign the number of fruit and vegetable samples scheduled for collection each month. These population- and distribution-network-based numbers result in the following monthly collection assignments for each State: California, 14; Colorado, 2; Florida, 7; Maryland, 4; Michigan, 6; New York, 9; Ohio, 6; Texas, 8;

A. Fresh Fruit and Vegetable Commodities

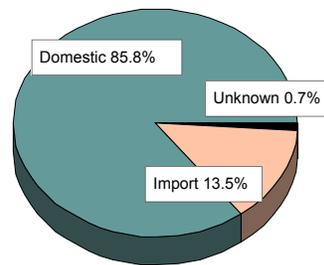
Bananas (742 Samples)



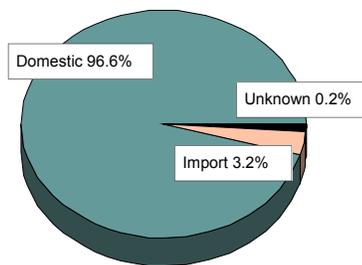
Broccoli (185 Samples)



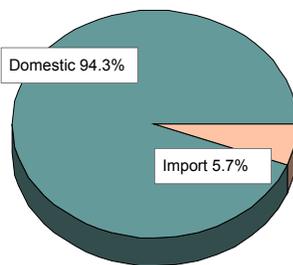
Carrots (744 Samples)



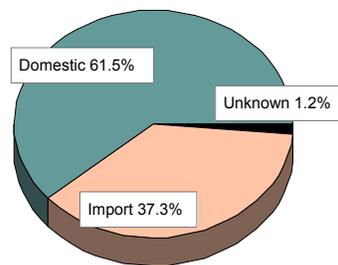
Cauliflower (558 Samples)



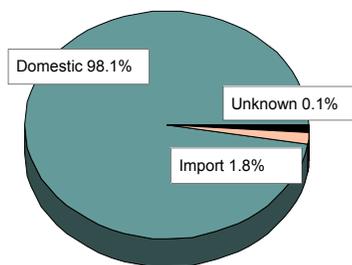
Cranberries (316 Samples)



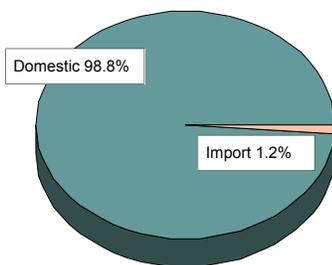
Eggplant (740 Samples)



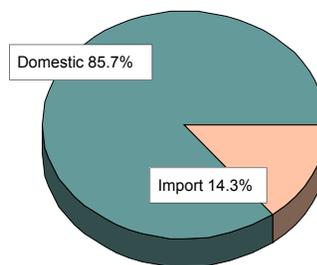
Grapefruit (743 Samples)

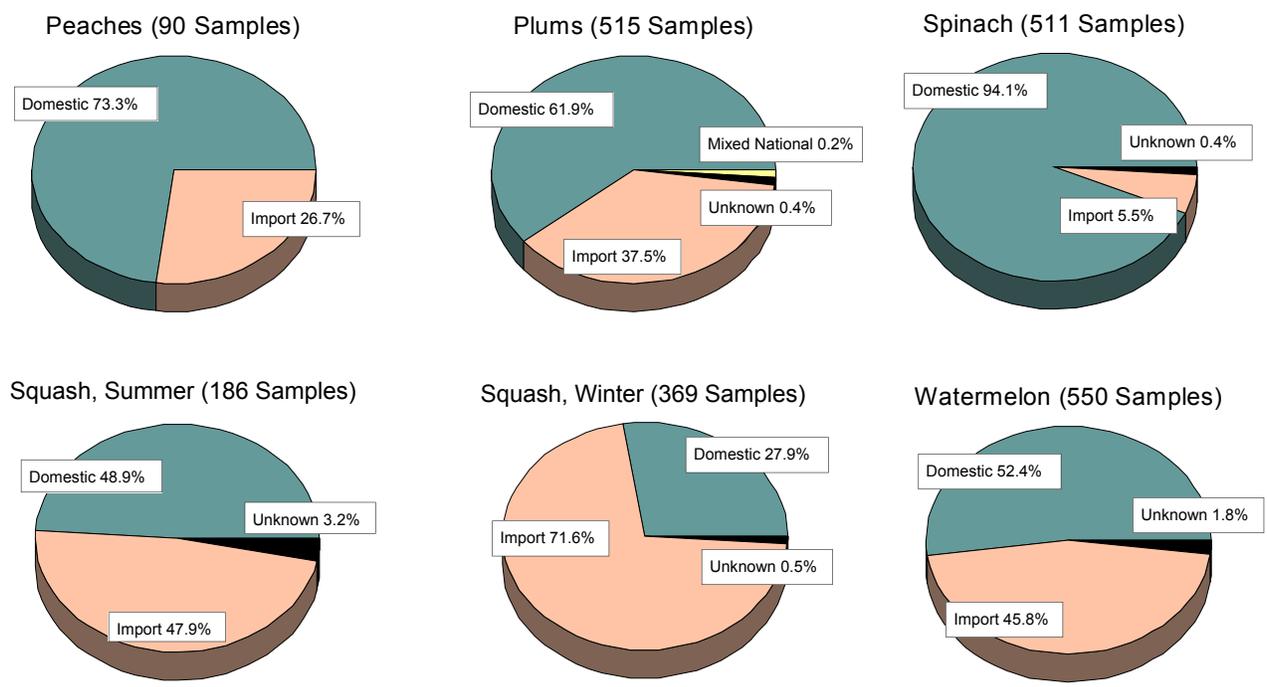


Greens, Collard (86 Samples)



Greens, Kale (98 Samples)





B. Processed Fruit and Vegetable Commodities

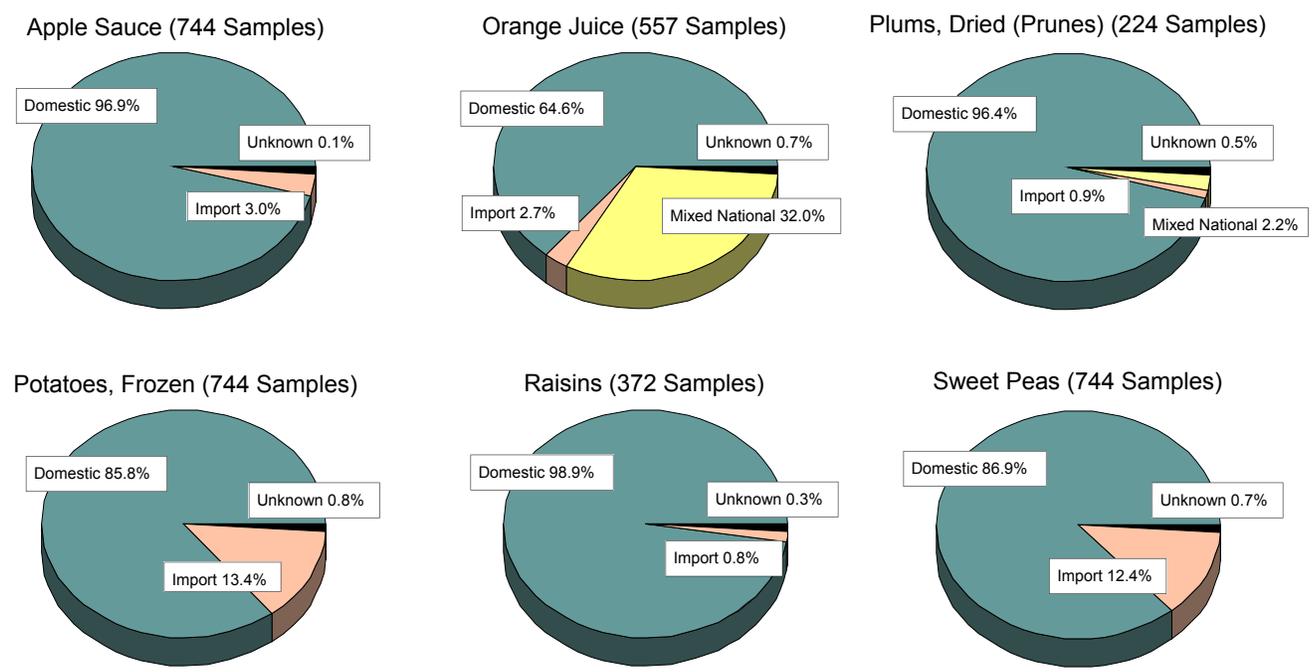
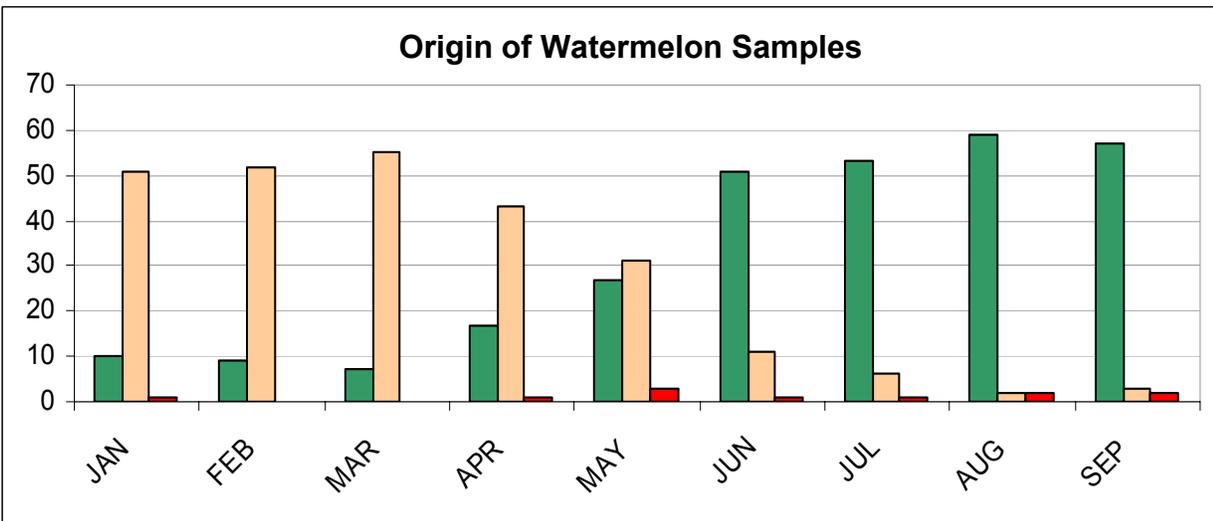
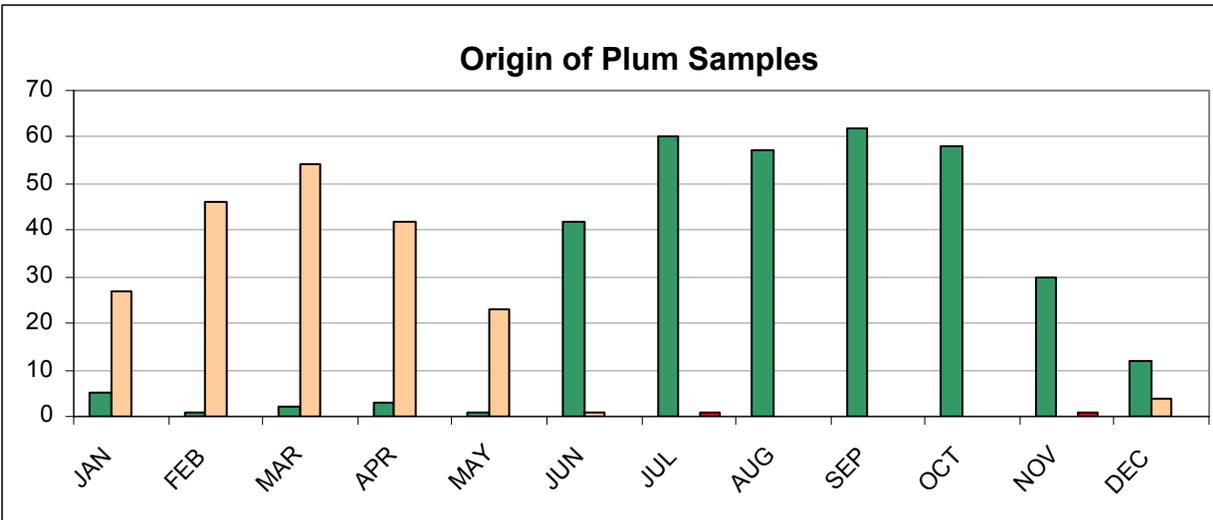
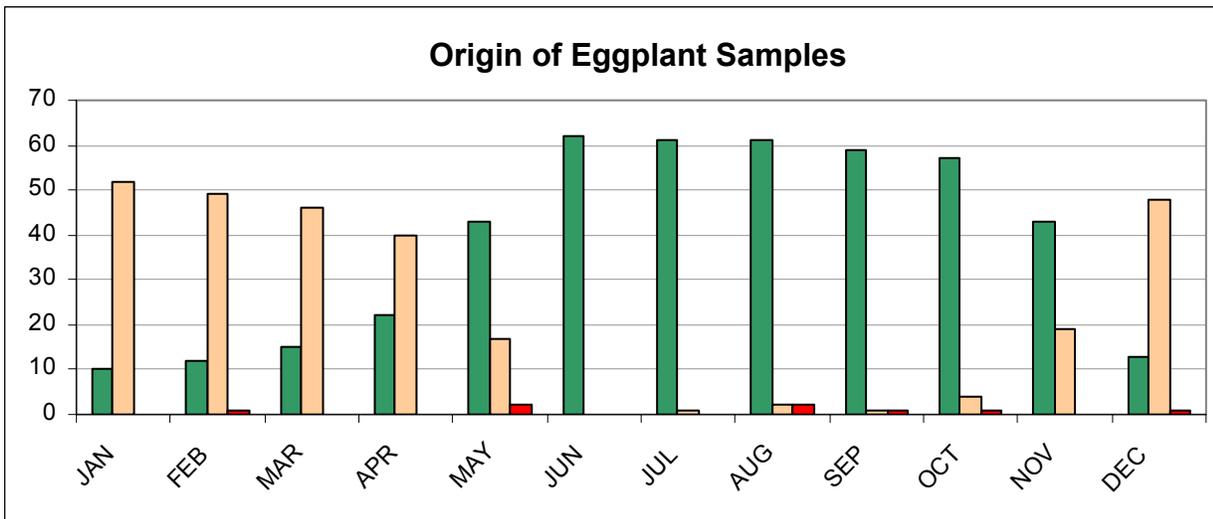


Figure 3. Commodity Origin. This figure depicts the proportion of commodity origin (domestic vs. import vs. unknown origin) for each fresh and processed fruit and vegetable product tested in 2006.



Domestic
 Imported
 Unknown

Figure 4. Origin of Selected Fresh Commodities: Eggplant, Plums and Watermelon. Differences in origin (domestic vs. import) are illustrated by month. The targeted number of samples is 62 per month for each commodity.

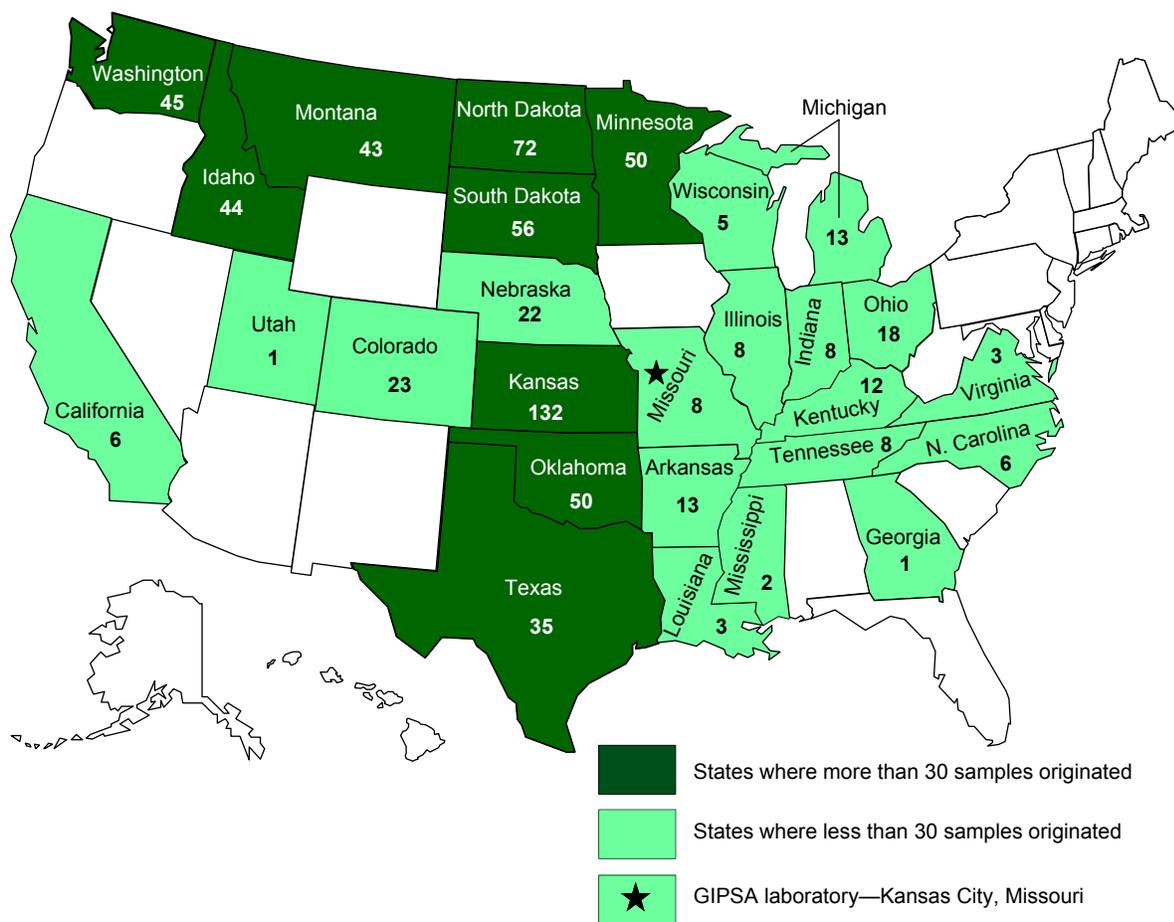


Figure 5. Number of Samples collected and Grower States for Wheat – Crop Year 2005. A total of 687 wheat samples were collected between October 2005 and June 2006. The samples originated from 27 States and were collected in proportion to their production volumes. Residue testing for all samples was performed by GIPSA, located in Kansas City, Missouri.



Washington, 4; and Wisconsin, 2. This schedule results in a monthly target of 62 samples per commodity, or 744 samples per commodity per year.

The total number of samples collected in each State for each commodity is listed in Table 2. Figure 2 illustrates the participating States and the laboratories to which samples were shipped. The total number of samples per commodity and the percentage of each that were either domestic, imported, or of unknown origin are shown in Figure 3. The origin of some fresh commodities can vary greatly throughout the year. Graphic examples of this variation can be found in Figure 4 where differences in origin (domestic vs. import) are depicted for eggplant,

fresh plums, and watermelon by month. Fruit and vegetable samples originated from 41 States and 27 foreign countries (refer to Appendix H).

◆ Wheat

Trained USDA GIPSA inspectors collected 687 wheat samples for PDP for the 2005 crop year (October 2005 through April 2006). Sample collection rates, on a state-wide basis, were calculated on the basis of crop production totals averaged over a 3-year period. Samples were drawn from trucks (17% of samples), hopper cars (69% of samples), and barges (14% of samples). Wheat grain slated for export were excluded from the sampling scheme. PDP

chain-of-custody procedures are similar to those used for fruit and vegetable samples. Sample information for wheat included: inspection location, inspection point code, field office location, official agency collecting the sample, carrier type (truck, hopper car, or barge), carrier identification code, State of origin, collection date, and inspector's name. Pesticide residue analysis was performed by the GIPSA Technical Services Division Laboratory located in Kansas City, Missouri. Wheat samples were collected from 9 GIPSA field offices across the country and originated from 27 States. There were no imported wheat samples; all were of domestic origin. The origin and number of samples collected from each State is displayed in Figure 5.

◆ Poultry

Between January and December 2006, 1,310 poultry samples were collected for PDP by trained FSIS inspectors. The inspectors collected samples from young hens and mature chickens at designated slaughter facilities, separately bagged each tissue in pesticide-free polyethylene bags, labeled the samples, and froze the samples overnight. Once frozen, the samples were packed with frozen cold packs in tamper-proof boxes, and shipped by overnight delivery to the NSL in Gastonia, North Carolina, for analysis. FSIS used specially designed Unified Sampling Forms that contain all required PDP sample information. The forms were

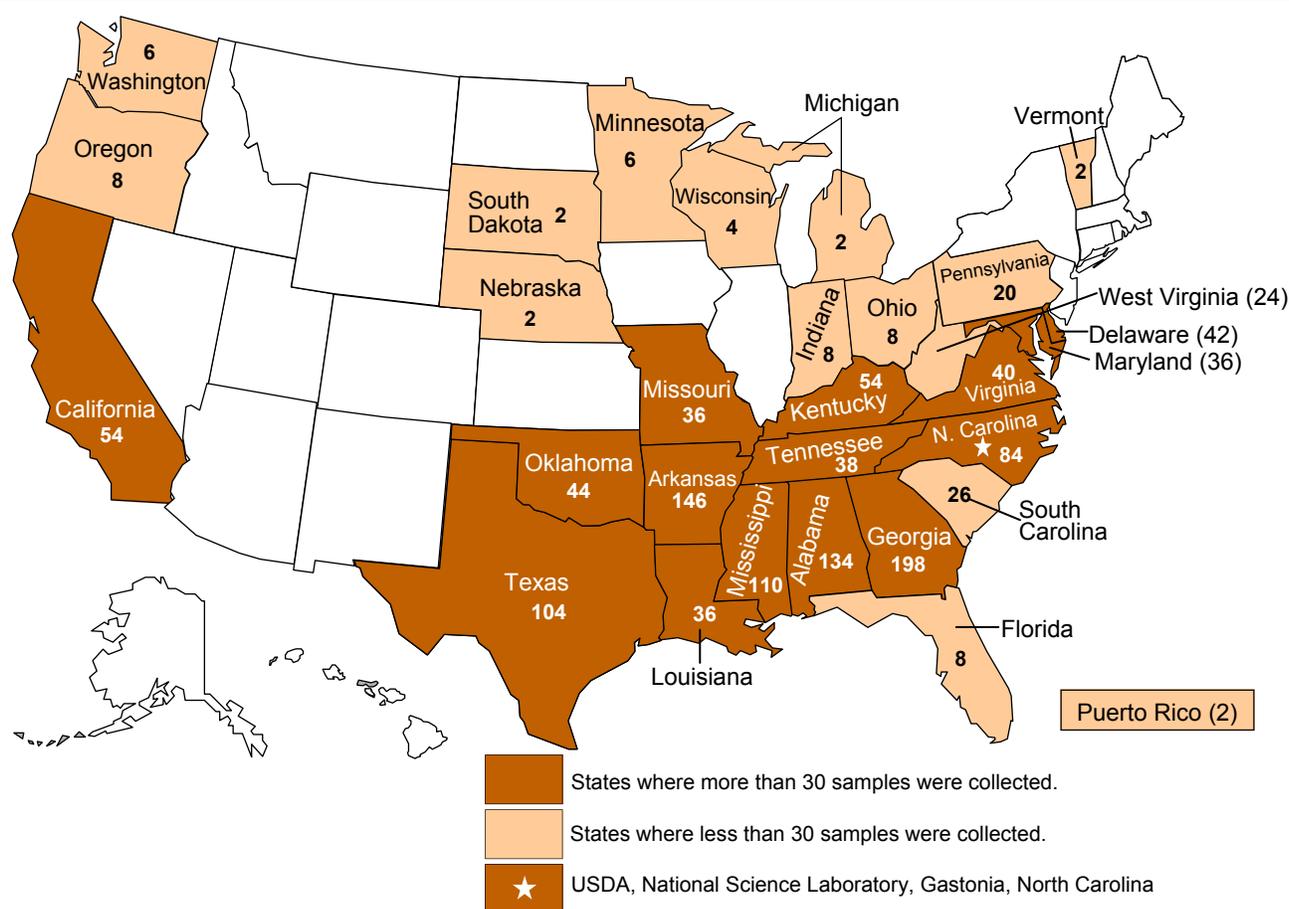


Figure 6. Location and Number of Poultry Sample Collection Sites. A total of 1,310 poultry samples were collected that included 655 breast tissue samples and 655 thigh tissue samples, with each set taken from a composite of 6 birds. All samples were approximately 1 pound. FSIS inspectors collected samples at designated slaughter facilities. The samples originated from 29 States and Puerto Rico. Residue testing for all samples was performed by the AMS National Science Laboratory in Gastonia, North Carolina.



completed on-site and accompanied each sample during shipment. Each site sample consisted of breast muscle tissue from each of 6 chickens and thigh muscle tissue from each of the same 6 chickens for a total of 655 breast tissues and 655 thigh tissues, or 1,310 individual samples. All samples contained skin and were deboned. Samples were taken from 161 slaughter facilities in 29 States plus Puerto Rico at rates according to throughput volume (refer to Figure 6 for distribution of samples in each State).

◆ Peanut Butter

PDP collected and analyzed 739 peanut butter samples in 2006. Approximately 1-pound samples were collected from routine PDP sampling sites that included major chain-store distribution centers and terminal markets. Less than one percent of the samples were collected from proxy sites. Only “creamy style” peanut butter samples containing not less than 90 percent peanuts were collected. Styles such as chunky, old fashioned, and jelly mixes were excluded. Analysis was performed by the GIPSA Technical Services Division Laboratory located in Kansas City, Missouri.

◆ Bottled Water and Municipal Drinking Water

PDP State sample collectors collected 367 bottled water samples that represented a half sampling rate from the 10 participating States (California-7, Colorado-1, Florida-3, Maryland-2, Michigan-3, New York-4, Ohio-3, Texas-4, Washington-2, and Wisconsin-1). Eighty-six percent of the samples were of domestic origin, 13 percent were imported, and 1 percent were of mixed national origin. A minimum of 2 liters per sample was collected from distribution and retail facilities in each participating State. Bottled water types excluded from the sampling scheme were: natural sparkling bottled water and mineral water. Artificially carbonated water, seltzer water, and flavored water, which are not regulated by FDA as bottled water, also were not included in the sampling scheme. Most bottled water sample collection was performed at proxy

sites (retail stores) because local, as well as national brands, were included in the survey. Sample information and packing procedures were the same as those for fruit and vegetables; however, the inclusion of cold packs for shipping was unnecessary. Sample information on bottled water also included (1) bottle type and (2) brand name. Sample collection States are found in Table 2. Sample analysis was performed by the State laboratory in Minnesota.

In the municipal water sampling project, 737 drinking water samples were collected from 14 States and the District of Columbia community water systems that draw water from surface water sources. Samples were collected bi-monthly by trained water treatment facility personnel and sent to State laboratories in Colorado, Montana, and New York for analysis. Samples included water collected from both the raw water intake and the finished drinking water after treatment. The untreated intake water and treated water were collected as paired samples, taking into account each individual plant’s processing time. Dechlorination and preservative chemicals were added to the samples at the time of collection. Samples were packed with frozen cold packs and shipped overnight to the testing laboratories.

The States and the number of sites in each State (in parentheses) from which municipal water samples were drawn included: Alabama (2), Arizona (1), California (1), Florida (1), Georgia (1), Iowa (1), Louisiana (1), Minnesota (1), Missouri (1), Montana (1), New Jersey (1), North Dakota (2), Pennsylvania (1), South Carolina (1), and the District of Columbia (1). Site selection was made in collaboration with EPA’s Office of Pesticide Programs and Office of Water. All selected sites met the following criteria: (1) use of surface water as the primary source of water and (2) location in regions of heavy agriculture where known amounts of targeted pesticides of interest were applied. Water treatment method was not a part of the selection criteria. General locations of water collection sites and testing laboratories are illustrated in Figure 7.

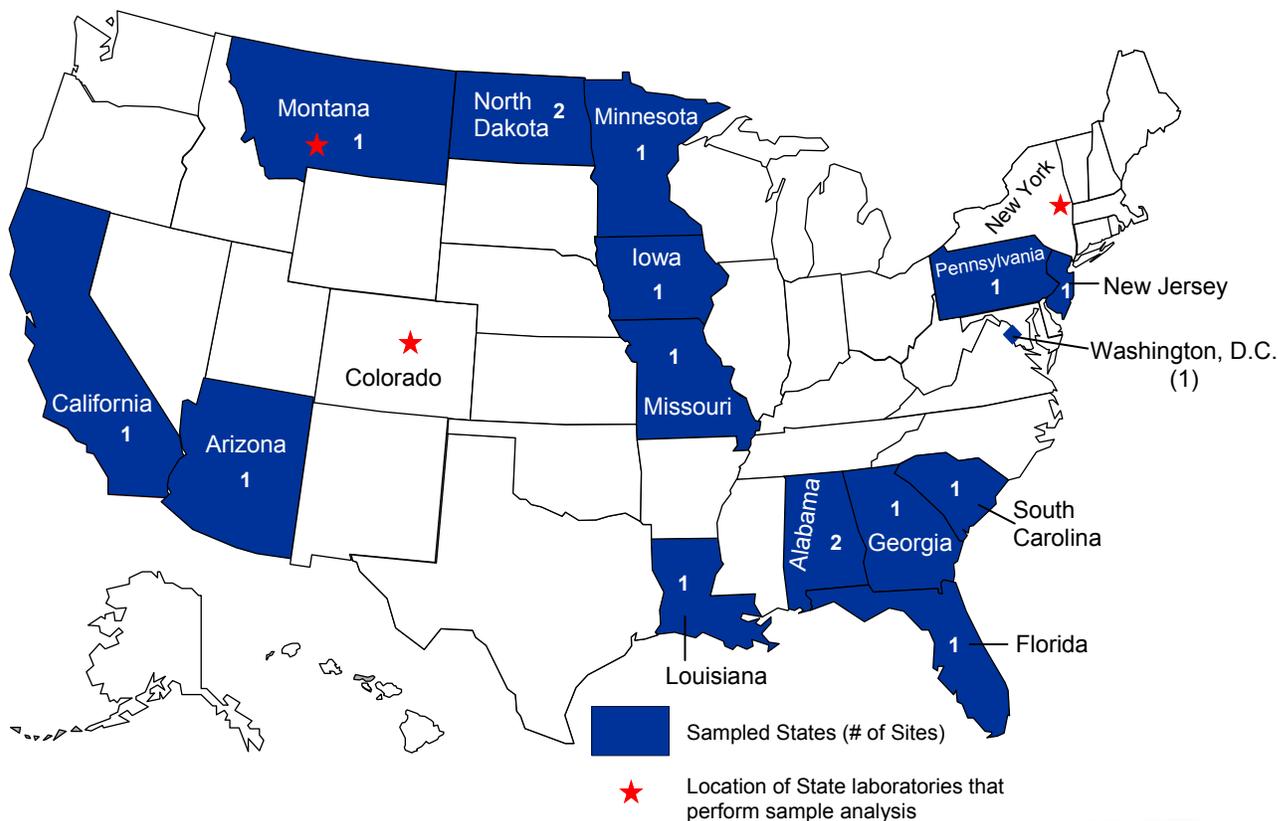


Figure 7. Location of Drinking Water Collection Sites at Community Water Systems, 2006. A total of 17 water treatment facilities in the U.S. were sampled in paired units (coordinated treated and untreated samples). Sites represent areas of varied geographical settings but are located in watersheds where pesticides were known to have been heavily applied.



III. Laboratory Operations

◆ Overview

Twelve laboratories (10 State and 2 Federal) performed analyses for PDP. These laboratories are equipped with instrumentation capable of detecting residues at very low levels. Laboratory staff members receive intensive training and must demonstrate analytical proficiency on an ongoing basis. Program scientists continuously test new technologies and develop new techniques to improve the levels of detection. Major changes in methodology are evaluated and their soundness demonstrated and documented in accordance with PDP SOPs.

◆ Fresh and Processed Fruit and Vegetables

PDP participating laboratories analyzing fruit and vegetables monitored 252 parent pesticides, metabolites, degradates, and/or isomers using Multiresidue Methods (MRMs). Upon arrival at the testing facility, samples are visually examined for acceptability and discarded if determined to be inedible (decayed, extensively bruised, or spoiled). Accepted samples are prepared emulating the practices of the average consumer to more closely represent actual exposure to residues. Fresh samples are prepared as follows: (1) bananas are peeled; (2) broccoli is visually examined, any damaged portion or wilted florets removed, any inedible

portion of stem removed, and washed; (3) cranberries are washed; (4) carrots are washed, gently scrubbed, and stem cap portions removed; (5) cauliflower is visually examined, any damaged portions and wrapper leaves discarded, and washed; (6) eggplant, summer squash, and winter squash are washed and end pieces are removed; (7) grapefruit are peeled and excess white membrane is removed; (8) greens are visually examined, any damaged/wilted and wrapper leaves discarded, and washed; (9) peaches and plums are washed, the stems and leaves removed, and pitted; (10) spinach is visually examined, damaged/wilted leaves and woody stems removed, and washed; and (11) watermelon is quartered and the rind removed; for large watermelon, alternate quarters of each fruit are homogenized (rind removed).

Processed samples are prepared as follows: (1) applesauce, frozen peas, and frozen potatoes are homogenized with their entire contents, including any liquid present; and (2) fresh and reconstituted orange juice samples are mixed until homogeneous. In the case of dried plums and raisins, samples are rehydrated to facilitate commodity extraction.

Laboratories are permitted to refrigerate incoming fresh fruit and vegetable samples of the same commodity for up to 72 hours to allow for different sample arrival times from collection sites. Frozen and canned commodities may be held in storage (freezer or shelf) until the entire sample set is ready for analysis.

Samples are homogenized using choppers and/or blenders and are separated into analytical portions (aliquots) for analysis. If testing cannot be performed immediately, the entire analytical set is frozen at -40°C or lower, according to PDP's Quality Assurance/Quality Control (QA/QC) requirements. Surplus aliquots not used for the initial testing are retained frozen in the event that replication of analysis or verification testing is required.

For analysis of fruit and vegetables, residues are extracted using organic solvents followed by

various cleanup procedures such as Solid Phase Extraction (SPE). The California, Florida (Winter Haven), Texas, and Washington laboratories used modifications of the MRM developed by the California Department of Food and Agriculture. The Florida Tallahassee laboratory used an acetonitrile extraction followed by an aminopropyl SPE cleanup procedure. The Michigan laboratory used a modified version of the QuEChERS method, developed and published in July 2003 by USDA's Agricultural Research Service. The New York laboratory used a method based on the Agriculture and Agri-Food Canada SPE method with some modifications based on the Luke procedure. The Ohio laboratory used variations and combinations of the FDA Luke I [Section 302 of Pesticide Analytical Manual (PAM) I] and Luke II [FDA Laboratory Information Bulletin (LIB) 3896] extraction procedures. All MRMs are determined, prior to use and through appropriate method validation procedures, to produce equivalent data for PDP analytical purposes.

Gas chromatography (GC) and liquid chromatography (LC), coupled with selective detectors and mass spectrometry (MS) systems, are used for the initial identification and quantitation of pesticides. Laboratories are increasing their use of GC- and LC-MS systems and are specifically focusing on LC-MS/MS techniques to broaden the scope of testing and to keep pace with emerging analyte chemistries. All residues initially identified must be verified. Confirmation is accomplished by MS, alternate detection systems, or alternate chromatographic behavior. Verification is considered crucial due to the complexity of commodity matrices and the low concentrations of detected residues. The verification process provides an extra measure of confidence in the identification of the analyte and its concentration.

◆ Peanut Butter

The USDA GIPSA laboratory in Kansas City, Missouri, analyzed peanut butter samples for 77 parent pesticides, metabolites, degradates, and/or isomers. Upon arrival at the testing facility,

samples were visually examined for acceptability and discarded if leaking, spoiled, or otherwise inedible. Peanut butter samples were refrigerated at 10° C, or lower, until time of analysis. Surplus sample aliquots, not used for the initial testing, were retained refrigerated in the event that replication of analysis or verification testing was required. Extraction of peanut butter samples was accomplished using solvent extraction and SPE cleanup coupled with GC-MS and LC-MS/MS detection.

◆ **Wheat**

The USDA GIPSA laboratory in Kansas City, Missouri, analyzed wheat samples for 71 parent pesticides, metabolites, and/or isomers. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if moldy or infested. Wheat samples were refrigerated at 7°C prior to grinding and then stored frozen at -80°C until time of analysis. Surplus sample aliquots, not used for the initial testing, were retained at -80°C in the event that replication of analysis or verification testing was required. Extraction of wheat samples was accomplished using solvent extraction and SPE cleanup coupled with GC-MS detection.

◆ **Poultry**

The AMS NSL in Gastonia, North Carolina, tested poultry meat (thigh/breast) samples for 96 parent pesticides, metabolites, degradates, and/or isomers. For both poultry breast and thigh tissues, approximately 1-pound samples were collected for shipment to the testing facility. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if warm to the touch, spoiled, or leaking. If not homogenized immediately after arrival, samples were frozen at 0°C or lower until homogenized. The tissue samples were homogenized by grinding it with dry ice in a large, high-speed food processor. The sample homogenates were placed into sample cups (approximately 60 grams per cup) and allowed to sublime at -20°C overnight before storing at -70°C prior to analysis. A 20-

gram aliquot was weighed for each thigh or breast sample followed by organic solvent extraction and sample cleanup using ultra-low refrigeration (-70°C), centrifugation, and dispersive SPE. For each poultry breast or thigh sample, two extra sample homogenate cups, not used for the initial testing, were retained frozen in the event that replication of analysis or verification testing was required. Surplus poultry tissue homogenate remaining after the three sample cups were filled was then discarded. Samples were analyzed using GC-MS and LC-MS/MS.

◆ **Bottled Water**

The Minnesota laboratory analyzed bottled water for 84 parent pesticides, metabolites, and isomers. These compounds were determined to be of interest to EPA based on data needs for risk assessment as required under FQPA. Upon arrival at the testing laboratory, samples were visually examined for acceptability (within labeled expiration date, no leakage). Samples were refrigerated until time of analysis. One liter of the sample provided was extracted for compounds amenable to GC-MS analysis and one for chloroacetanilide compounds to be analyzed via LC-MS/MS.

◆ **Drinking Water**

The Colorado, Montana, and New York laboratories analyzed drinking water for 242 parent pesticides, metabolites, degradates, and isomers. These compounds were determined to be of interest to EPA. Paired samples of the raw intake water (untreated) and disinfected finished drinking water (treated) were collected for analysis. Treated water samples were collected after the untreated samples at a time interval consistent with the hydraulic residence. Hydraulic residence is the average time from entry into the treatment facility until distribution as treated water. Each sample consisted of three 1-liter amber glass bottles collected at the water treatment facility. Upon arrival at the testing laboratory, samples were visually examined for acceptability and discarded if warm to the touch or leaking. Samples were

refrigerated until time of analysis and extracted within 96 hours of collection. A 1-liter bottle was extracted for compounds amenable to GC analysis and another one for compounds amenable to LC analysis. The remaining bottle was held in reserve or extracted for specialty compounds requiring separate extraction/analytical procedures [e.g., ethane sulfonic acid (ESA) and oxanilic acid (OA) analogs of alachlor, acetochlor, and metolachlor]. The extraction methods used were based on SPE methods developed by the U.S. Geological Survey (USGS) and were independently validated by each testing laboratory. Samples were analyzed using MS detection (single and tandem GC and LC technologies) or selective detectors.

◆ **Quality Assurance Program**

The primary objectives of the QA/QC program are to ensure the reliability of PDP data and the performance equivalency of the participating laboratories. Direction for the PDP QA program is provided through SOPs based on EPA Good Laboratory Practices (GLPs). Written SOPs provide uniform administrative, sampling, and laboratory procedures. SOPs are revised annually to accommodate changes in the program. As laboratories continue to move toward accreditation to ISO 17025, program SOPs are being modified to align with these ISO requirements. Prior to submission to PDP, data are reviewed by each Quality Assurance Unit (QAU) for completeness and adherence to PDP requirements.

Laboratory Technical Advisory Group and Quality Assurance Officers: A Technical Advisory Group comprised of laboratory Technical Program Managers (TPMs) and Quality Assurance Officers (QAOs) is responsible for annually reviewing program SOPs and addressing QA issues. For day-to-day QA oversight, PDP relies on the QAU at each participating facility. As required under EPA GLPs, the QAU operates independently from the laboratory staff and is responsible for performing quarterly internal program audits. Preliminary data review procedures are performed on-site by each

laboratory's QAU. Final review procedures are performed by MPO staff who are responsible for collating and reviewing data for conformance with SOPs.

Method Performance Requirements: Laboratories are required to determine and verify the limits of detection (LODs) and limits of quantitation (LOQs) for each pesticide/commodity pair. LODs depend on matrix, analyte, and detector used. LODs for each pesticide/commodity pair are shown in the applicable crop results appendix. Additional method performance/validation requirements include modules for consistent instrument response (linearity), method range, and precision and accuracy.

Confirmation: Verification by MS or a suitable alternate detection system is required for all preliminary results. Verified residue amounts greater than or equal to LOD and below LOQ are reported as below quantifiable level (BQL). BQLs are assigned values at one-half the LOQ, and are used along with values greater than or equal to LOQ and non-detects in dietary risk assessments, when appropriate.

Routine Quality Control Procedures: PDP procedures for QC are intended to assess method and analyst performance during sample preparation, extraction, clean-up, and, where applicable, derivatization. To maximize sample output and decrease the QC/sample ratio, samples are analyzed in analytical sets that include the test samples and the following components:

Reagent Blank - For analysis of fruit and vegetables, peanut butter, wheat, and poultry, an amount of distilled water, equivalent to the natural moisture content of the commodity, is run through the entire analytical process to confirm glassware cleanliness and system integrity.

Matrix Blank - A previously analyzed sample of the same commodity, which contains either very low concentrations of known residues or no detectable residues, is divided into two portions.

The first portion is used to determine background information on naturally occurring chemicals and the second is used to prepare a matrix spike.

Matrix Spike(s) - Prior to extraction, a portion of matrix blank is spiked with marker pesticides to determine the precision and accuracy of the analyst and instrument performance. Marker pesticides are compounds selected from different pesticide classes (e.g., organochlorines, organophosphates, carbamates, conazoles, imidazolines, neonicotinyls, phenoxy acid herbicides, pyrethroids, strobilurins, triazines), which have physical and chemical characteristics similar to those in the class they represent. Marker pesticides are used to monitor recovery instead of spiking all pesticides. This use of marker pesticides optimizes the resources required to analyze the thousands of analyte/matrix combinations in the program while still allowing evaluation of daily recovery patterns. In addition, each laboratory must perform matrix spikes throughout the year for each analyte/crop combination reported by their laboratory.

During 2006, PDP laboratories quantitated a total of 51,605 matrix spikes, with an overall mean recovery of 93 percent and an overall percent coefficient of variation (% C.V.) of 27 percent. The % C.V. is calculated as the standard deviation divided by the mean.

Process Control Spike - A compound with physical and chemical characteristics similar to those of the pesticides being tested is used to evaluate the analytical process on a sample-by-sample basis. Each of the analytical set components, except the reagent and matrix blanks, is spiked with process controls. During 2006, PDP laboratories quantitated a total of 50,010 process controls on 13,658 samples, with an overall mean recovery of 96 percent and an overall C.V. of 21 percent. Of these process controls, 459 (0.92 percent) were rerun due to initial failure

to meet PDP recovery criteria. These rerun values are not included in these statistics.

Proficiency Testing: All facilities are required to participate in PDP's Proficiency Testing (PT) program. For laboratories testing fresh and processed fruit and vegetables, grains, dairy products, and meats, multiresidue test samples containing pesticides of known quantities are periodically issued and analyzed under the same conditions as routine samples. The resulting data are used to determine performance equivalency among the testing laboratories and to evaluate individual laboratory performance. During 2006, PDP laboratories received 5 multiresidue fruit and vegetable PT sets consisting of 15 samples, 1 peanut butter set consisting of 3 samples, and 1 poultry set consisting of 3 samples. For fruit and vegetable multiresidue screening, the 15 samples were comprised of 5 commodities and were fortified with 51 compounds at levels generally 1 to 10 times the LOQ. Five compounds were repeated twice and five compounds were repeated once. Reported results for fruit and vegetable samples yielded an overall mean recovery of 93 percent and an overall C.V. of 21 percent. For peanut butter and poultry, 2 samples were fortified with a total of 11 compounds for each commodity.

Additionally, PDP laboratories participated in the international AOAC[®] PT program. During 2006, PDP laboratories participated in three test rounds, one for cauliflower, one for grapefruit, and one for peaches. Each sample set was fortified with nine pesticides. Laboratories were evaluated based on z-scores for reported compounds, as well as any reported false negatives or false positives. Laboratories were not held responsible for reporting compounds not included in their routine screening method. Overall, PDP laboratories performed as well or better than other participating laboratories.

For water, two proficiency sample sets were analyzed during 2006. For the first set, replicate samples from a site whose samples historically contained multiple pesticides were sent to each of

the water testing laboratories and reported results compared. For the other drinking water set, a commercial vendor supplied PT solutions to the testing laboratories. Solution profiles were based on common laboratory analytical profiles and detection limits. Test solutions were used for spiking, rather than distribution of spiked samples, due to stability concerns. For each PT set, the vendor supplied the laboratory's QAU with a custom solution that was diluted according to program protocols by the on-site QAU and fortified into 1-liter of replicate sample received by each laboratory. The spiked samples were then presented to the staff members of each respective laboratory for analysis.

On-site Reviews: MPO staff perform on-site visits to determine compliance with PDP SOPs. Improvements in sampling, chain-of-custody, laboratory, recordkeeping, and electronic data transmission procedures are made as a result of on-site reviews.

IV. Database Management

PDP maintains an electronic database at the MPO in Manassas, Virginia, that serves as a central data repository. The data captured and stored in the PDP database include sample collection and product information, residue findings, and process control recoveries for each sample analyzed, in addition to QA/QC fortified recoveries for each set of samples. Each calendar-year survey is stored in a separate database structure, which allows easier administration and data reporting. The PDP data path is illustrated in Figure 8.

◆ Electronic Data Path

PDP utilizes the Remote Data Entry (RDE) system, which is a customized software application that allows participating State and Federal laboratories to enter and transmit data electronically. The RDE system is centralized with all user interface software and database files residing in Washington, D.C. The laboratory users need only a Web browser to interface with

the RDE system. Access is controlled through separate user login/password accounts and user access rights for the various system functions based on position requirements. The RDE system utilizes Secure Sockets Layer (SSL) technology to encrypt all data passed between users' computers and the central Web server.

A separate Windows®-based system allows sample collectors to capture the standardized Sample Information Form (SIF) electronically on handheld or laptop computers. The e-SIF system generates formatted text files containing sample information that are e-mailed to PDP headquarters and then imported into the Web-based RDE system.

The RDE data entry screens have extensive editing functions and cross-checks built into the software to ensure that valid values are entered for all critical data elements. This task is made easier by the practice of capturing and storing standardized codes for all critical alphanumeric data elements rather than their complete names, meanings, or descriptions. This coding scheme allows for faster and more accurate data entry, saves disk storage space, and allows the user to perform ad-hoc queries (data searches) on the database easily. The data entry screens also perform automatic edits on numeric fields, dates, and other character fields to ensure that entries are within prescribed boundaries.

At PDP headquarters, the RDE system allows staff chemists to review the data on-line and then to mark the data as ready-for-upload to the central PDP database. A separate upload application converts and passes the data to the PDP database which is presently maintained using Microsoft® Access in a Windows® operating environment. Access to the central PDP database is limited to PDP staff personnel only and is controlled through password protection and user access rights. System backups are performed each night and back-up tapes are sent to off-site storage once a week.

Sample Collection



- Collection in 10 States
- Samples taken close to point of consumption
- Standardized Sample Information Form
- Data entry on handheld/laptop computers



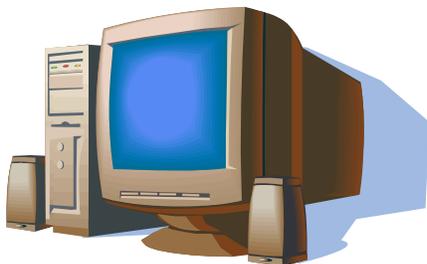
Laboratory Analysis



- 10 State labs + 2 USDA labs
- Fruit and vegetable samples prepared for consumption
- Detect residues at low levels
- Pesticide residue data generated
- Multi-tiered QA data review process

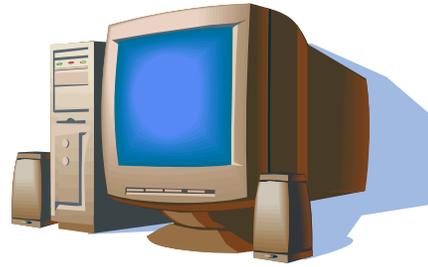


Laboratory Remote Data Entry (RDE)



- Web-based data entry software
- Import data from other systems
- Access controlled by user login
- Extensive data cross-checks

Data Review at HQ



- Chemists review data on-screen
- Upload data to central database



Year-end Review



- Data reconciliation

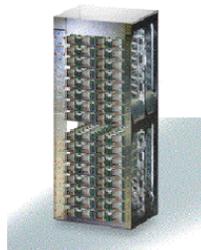


Data Reporting



- Standard & adhoc reporting
- Annual Summary
- Custom data sets

Internet



Internet

Figure 8. PDP Data Pathway. An illustration of PDP data path from sample collection through laboratory analysis and reporting.

◆ Data Reporting

The PDP staff frequently receives requests for data from Government agencies and interested outside parties. Ad-hoc queries and custom reports are generated to fill such requests. An electronic library of data queries is maintained to generate standardized data summaries, including the data tables, charts, and appendices in this annual summary. Subsets of the PDP calendar year databases are made available for download from the PDP Web site. The data files on the Web site are fixed-length text files that contain a portion of the sampling data, all of the reported residue findings, and reference lists that can be used to interpret the standardized codes used in the PDP data. The data files can be imported into defined database structures and manipulated with the use of common database management software packages.

V. Sample Results and Discussion

◆ Sample Results

In 2006, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, peanut butter, wheat grain, poultry, bottled water, and treated and untreated drinking water. Of the 13,658 samples that were collected and analyzed, 9,818 were fruit and vegetable commodities, 739 were peanut butter samples, 687 were wheat grain samples, 1,310 were paired breast and thigh poultry samples, 367 were bottled water samples, and 737 were drinking water samples.

Excluding drinking water samples, which were all from U.S. sources, approximately 80 percent of all samples were produced in the U.S., 18 percent were imports, 1 percent was of mixed origin, and 1 percent was of unknown origin. Appendix H shows the distribution of sample origin by State or country. Of the domestic samples, approximately 39 percent (3,269 of 8,322) were grown, packed, and/or distributed in or from California. Approximately 32 percent (178 of 557) of the orange juice samples were of mixed national origin (i.e., the juice was

comprised of orange concentrates from more than one country). Appendix I includes a comparison of residues for selected commodities with a significant import component.

Table 3 gives an overview of the number of residue detections for fresh and processed fruit and vegetables, peanut butter, wheat grain, poultry, and bottled water products determined during 2006. Overall, 64 percent of fresh fruit and vegetables and 59 percent of processed fruit and vegetables showed detectable residues. Residues were detected in 30 percent of the peanut butter samples, 69 percent of the wheat grain samples, 7 percent of the poultry breast and thigh samples, and 19 percent of the bottled water samples.

Appendix B tabulates the distribution of residues in fruit and vegetables for the complete 2006 data set. Information included in this appendix are: number of samples analyzed for a particular compound; number and percent of samples with detections; range of concentrations detected; tolerance violations; range of analytical LODs; EPA tolerance levels or FDA action levels; and corresponding Codex Alimentarius Maximum Residue Limits (MRLs) and/or Extraneous Maximum Residue Limits (EMRLs), when applicable. Appendices C, D, E, F and G provide the distribution of residues for peanut butter, wheat grain, poultry, bottled water, and treated and untreated drinking water respectively. The individual sample data can be downloaded from the PDP Web site or obtained by contacting MPO.

Food monitoring data, together with dietary consumption surveys, are used by EPA to estimate dietary exposure to pesticides to ensure the safety of existing pesticide uses. EPA uses all results reported by PDP, including sample results reported as below the LOD and those above the tolerance. PDP laboratories are required to establish LODs and report any instrumental response below the LOD as a non-detect. LODs are established experimentally for each pesticide/commodity pair and are reported with each data set. The number of non-detects

	Number of Samples Analyzed	Samples with Residues Detected	Percent of Samples with Detections	Different Pesticides Detected	Different Residues Detected	Total Residue Detections
Fresh Fruit and Vegetables:						
Bananas	742	563	76	15	16	828
Broccoli	185	163	88	17	19	313
Carrots	744	623	84	21	25	1,462
Cauliflower	558	448	80	14	16	509
Cranberries	316	219	69	12	13	378
Eggplant	740	191	26	16	19	339
Grapefruit	743	345	46	9	11	512
Greens, Collard	86	63	73	21	24	158
Greens, Kale	98	69	70	29	33	249
Peaches	90	89	99	33	37	411
Plums	515	357	69	19	21	597
Spinach	511	479	94	48	58	1,979
Summer Squash	186	176	95	23	29	462
Watermelon	550	136	25	25	28	207
Winter Squash	369	169	46	26	29	262
TOTAL FRESH	6,433	4,090	64			8,666

Processed Fruit and Vegetables:

Applesauce	744	691	93	26	28	2,121
Orange Juice	557	297	53	8	9	397
Plums, Dried (Prunes)	224	23	10	11	12	30
Potatoes, Frozen	744	653	88	22	26	1,148
Raisins	372	233	63	28	29	604
Sweet Peas, Frozen	744	114	15	12	12	138
TOTAL PROCESSED	3,385	2,011	59			4,438

Fruit and Vegetables Totals:

Number of Samples Analyzed = 9,818	Total Number of Different Pesticides Detected = 113
Number of Samples with Residues Detected = 6,101	Total Number of Different Residues Detected = 125
Percent with Residue Detections = 62.1%	Total Number of Residue Detections = 13,104

Processed Nut Product:

Peanut Butter	739	223	30	6	8	243
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Grain Product:

Wheat	687	475	69	15	15	669
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Meat Tissues:

Poultry, Breast	655	40	6	7	7	49
Poultry, Thigh	655	54	8	7	8	76
Total Poultry	1,310	94	7			125

Water Product:

Bottled Water	367	70	19	6	12	178
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All Commodities (excludes 737 drinking water samples):

Number of Samples Analyzed = 12,921	Total Number of Different Pesticides Detected = 165
Number of Samples with Residues Detected = 6,963	Total Number of Different Residues Detected = 178
Percent with Residue Detections = 53.9%	Total Number of Residue Detections = 14,319

Table 3. Number of Samples Analyzed and Summary of Residues Detected by Commodity. The distinction between the number of pesticides and different residues is made to differentiate a parent compound and its metabolite(s). A parent compound and its metabolites are reported as a single pesticide detection rather than as separate residue detections.

can be used in conjunction with percent crop treated data to determine what proportion of these values may be counted as zero towards the dietary exposure. As shown in Table 3, 46 percent of the samples (excluding treated and untreated drinking water samples) were reported as having no residue detections (i.e., results were below the established LOD). For samples containing residues, the vast majority of the detections were well below established tolerances and/or action levels.

◆ Fresh vs. Processed

The 2006 residue data, as in past years, show that residue profiles for fresh products are significantly different than for processed products. An increase in residue levels (concentration) or reduction in residue levels is likely a direct result of processing effects such as cooking, pasteurization, and other processing steps. A comparison of residues for selected fresh and processed products is shown in Table 4.

For fresh apples and/or applesauce, detection of pesticides in greater than 10 percent of the samples included acetamiprid, carbaryl, carbendazim (a metabolite of benomyl and thiophanate methyl), diphenylamine, imidacloprid, phosmet, thiabendazole, and thiacloprid. All eight compounds were detected in both fresh apples and applesauce. Acetamiprid, diphenylamine, imidacloprid, phosmet, and thiabendazole were detected more frequently in fresh apples than in applesauce. In contrast, the percent of samples with detections was higher for carbaryl, carbendazim and thiacloprid for applesauce than for fresh apples. For example, diphenylamine was present in 82.9 percent of fresh apples and 30.2 percent of the applesauce samples, whereas carbendazim was detected in 82.6 percent of the applesauce and 20.8 percent of fresh apples.

While raisins are primarily a domestic product, grapes are approximately half import and half domestic product. The majority of residues detected in greater than 10 percent of the samples occurred for grapes. These compounds include captan, chlorpyrifos, cyprodinil, fludi-

oxonil, imidacloprid, iprodione, and myclobutanil. The only residue detected in greater than 10 percent of the samples for raisins was the insecticide propargite; propargite was not detected in any of the fresh grape samples. Chlorpyrifos and fludioxonil were detected in fresh plums but not dried. Iprodione was found in 36.3 percent of fresh plums and 0.4 percent of dried plums. Phosmet was detected in 15.5 percent of fresh plums and 1.8 percent of dried plums.

◆ Import vs. Domestic Residue Comparisons

Information about the origin of each PDP sample is recorded when the sample is collected. Figure 3 illustrates the portion of the domestic and import component for each PDP fruit and vegetable commodity in 2006. The data generated by PDP reflect pesticide residues in foods available to the U.S. consumer, including both domestic and imported products. Many commodities are almost entirely of domestic origin such as grapefruit, greens, and raisins. However, some fresh commodities, such as eggplant, plums, and watermelon are from domestic growers part of the year and are imported during the remaining months, as illustrated in Figure 4. Comparisons of selected residues detected in imported versus domestic winter squash and plums can be found in Appendix I.

Overall, there were no significant differences between the number of detections in domestic vs. winter squash from Mexico; however, the residue profiles do differ. Overall, samples of plums from Chile showed a higher percent of detections than the domestic samples. These sample sets were selected to compare data where residues are present in greater than 10 percent of the commodity and allow for the comparison of individual residues. These data also showed that the residue profiles for domestic and imported crops were significantly different.

The winter squash data in Appendix I indicate that in 2005-2006, residues were detected in

Pesticide	APPLES -- Fresh (2005)			APPLE SAUCE (2006)		
	% of Samples with Detects	Minimum Value Detected, ppm	Maximum Value Detected, ppm	% of Samples with Detects	Minimum Value Detected, ppm	Maximum Value Detected, ppm
Acetamiprid	70.0	0.001	0.13	51.5	0.001	0.031
Carbaryl	7.1	0.0005	0.32	22.2	0.0005	0.23
Carbendazim	20.8	0.0002	0.16	82.6	0.0005	0.04
Diphenylamine	82.9	0.0048	2.9	30.2	0.0048	0.16
Imidacloprid	26.6	0.0002	0.015	17.5	0.0002	0.0027
Phosmet	19.4	0.008	0.28	1.7	0.008	0.008
Thiabendazole	88.0	0.0002	7.0	38.8	0.0002	1.2
Thiacloprid	3.0	0.003	0.018	12.8	0.0007	0.0062
	GRAPES -- Fresh (2005)			RAISINS (2006)		
Captan	16.8	0.0125	1.2	0.5	0.040	0.040
Chlorpyrifos	12.4	0.0063	0.19	0.8	0.007	0.022
Cyprodinil	26.8	0.0079	1.4	1.9	0.027	0.41
Fludioxonil	13.7	0.011	0.5	0.3	0.13	0.13
Imidacloprid	18.1	0.01	0.47	0.9	0.066	0.066
Iprodione	16.1	0.025	1.6	0.8	0.025	1.3
Myclobutanil	15.8	0.033	0.35	1.3	0.053	0.067
Propargite	0	0	0	31.5	0.0058	1.2
	PLUMS -- Fresh (2006)			PLUMS -- Dried (2006)		
Chlorpyrifos	17.1	0.005	0.18	0	0	0
Fludioxonil	18.8	0.18	1.8	0	0	0
Iprodione	36.3	0.065	6.9	0.4	0.36	0.36
Phosmet	15.5	0.005	0.18	1.8	0.005	0.16

Table 4. Selected Residue Comparisons for Fresh and Processed Commodities. The percentage of samples with detections and the range of reported values for selected pesticides recovered from fresh vs. processed apples, grapes, and plums are shown. Commodity/residue pairs were selected based on the following criteria: data availability for fresh and processed product within the same sampling timeframe; greater than 10% detection rate for a residue in either the fresh or processed commodity; and number of samples analyzed sufficient to ensure adequate representation.

44.8 percent of the domestic samples and 41.4 percent of the samples from Mexico. Dieldrin was detected in 10.4 percent of the domestic samples and in 0.2 percent of the samples from Mexico. Endosulfan sulfate was detected more frequently in the winter squash samples from Mexico (26.3%) than domestic winter squash samples (14.3%).

For plums, 98.6 percent of the samples from Chile and 55.2 percent of the domestic samples had residues detected in 2005-2006. Chlorpyrifos and iprodione were detected more often in the imported plum samples than the domestic plum samples. For example, iprodione residues were detected in 94.7 percent of the plum samples from Chile

compared to 2.1 percent of the domestic samples. Similarly, chlorpyrifos was detected in a higher percentage of samples from Chile (26.3%) in relation to domestic samples (3.0%). Conversely, fludioxonil and phosmet were detected more often in the domestic plum samples than the plum samples from Chile. Fludioxonil was not detected in any of the 419 plum samples from Chile, whereas it was detected in 32.5 percent of the domestic plum samples. Phosmet was found in 28.1 percent of the domestic samples and in 1.2 percent of the samples from Chile.

◆ National Estimates

National estimates for pesticide/commodity pairs with detections in at least 10 percent of samples tested are shown in Appendix J. In most cases for each pair, the levels of detected residues are a small fraction of the tolerance level. A range of values for the average sample residue concentration (mean) for each pair is provided. The lower value for the range is determined by treating a sample without detectable residues as if it had a residue concentration equal to zero. The upper value is determined by treating such a sample as if it had a residue concentration equal to the LOD. Calculations for the 50th, 75th, and 90th percentiles for each of the selected pairs are shown. The ratio of the 90th percentile to the tolerance, as a normalization factor is also provided. Percent detections and percentiles for bananas, carrots, cauliflower, cranberries, eggplant, orange juice, plums, spinach, and winter squash were weighted to reflect monthly variations in marketing. No weighting adjustments were made for applesauce, grapefruit, peanut butter, frozen potatoes, raisins, frozen sweet peas, or wheat grain.

Appendix K displays the estimated distributions of 12 representative pesticide/commodity pairs. These graphs depict that the overwhelming majority of pesticide testing results and the respective means (average values) are at low concentrations. The range of values, the median at the 50th percentile, and the range in percentile

representing the lower and upper bound for the sample mean are shown on each chart. The pesticide/commodity pairs included in Appendix K are acetamiprid/applesauce, imazalil/bananas, pyraclostrobin/carrots, trifluralin/carrots, imidacloprid/cauliflower, azoxystrobin/cranberries, fludioxonil/plums, chlorpropham/frozen potatoes, imidacloprid/frozen potatoes, boscalid/raisins, dimethoate/frozen sweet peas, and chlorpyrifos methyl/wheat. In some cases, there is convergence of the mean upper and lower bound into a single line due to the insignificant differences between them (e.g., imidacloprid/cauliflower).

◆ Postharvest Applications

Pesticides can be applied before and after harvest depending on the crop and approved label use. PDP data capture both preharvest and postharvest uses because samples are collected at points when all pesticide applications have already occurred. Pesticides applied postharvest are used primarily as fungicides (e.g., imazalil, o-phenylphenol, and thiabendazole), but some insecticides (e.g., piperonyl butoxide) and sprouting inhibitors (e.g., chlorpropham) are important postharvest crop treatments. Some detections reported in Appendix B most likely reflect postharvest applications to the raw agricultural commodity.

◆ Environmental Contaminants

DDT, DDD, and DDE

A total of 9,455 fruit and vegetable (Appendix B), 739 peanut butter (Appendix C), 687 wheat grain (Appendix D), 1,310 poultry samples (655 paired breast and thigh samples, Appendix E), and 235 treated (finished) drinking water and 236 untreated water samples (Appendix G) were screened for DDE p,p', a metabolite of DDT. Use of DDT has been prohibited in the U.S. since 1972; however, due to its persistence in the environment, residues of the DDE p,p' metabolite were detected in 4.2 percent (398 detections in 9,455 samples) of the fruit and vegetable samples tested. Residues of DDE p,p'

were found in broccoli (1.1%), carrots (27.5%), kale greens (32.4%), peaches (1.1%), spinach (34.2%), summer squash (0.5%), watermelon (0.2%), and winter squash (0.5%). DDE p,p' residues were also detected in peanut butter and poultry. Other DDT metabolites including DDD o,p' (1,637 samples) and DDD p,p' (9,440 samples) were analyzed in fruit and vegetables. There was only one detection for DDD o,p' at 0.002 ppm on spinach and one detection of DDD p,p' at 0.016 ppm on carrots. Residues of DDT o,p' were detected only in spinach (5.2%). Residues of DDT p,p' were detected in carrots (0.5%), kale greens (32.4%), spinach (8.6%), and summer squash (1.9%). All detections of DDT and its metabolites were well below the established action levels for all commodities.

OTHER EXTRANEOUS PESTICIDES

In 1974, all aldrin and dieldrin uses were canceled in the U.S., and in 1978, all heptachlor uses were canceled. In 1986, chlordane uses, except termiticide uses, were canceled. Despite these cancellations and due to their persistence in the environment, residues of dieldrin were detected in carrots, frozen potatoes, spinach, summer squash, and winter squash in 2006. Dieldrin was found in 0.1 percent of carrot, 0.4 percent of frozen potato, 0.2 percent of spinach, 9.1 percent of summer squash, and 1.6 percent of winter squash samples. Heptachlor epoxide, a metabolite of heptachlor, was detected in summer squash (1.6%) and winter squash (0.5%). The cis-chlordane isomer was detected in carrots (0.9%), spinach (0.4%), summer squash (4.3%), and winter squash (1.4%). Residues of trans-chlordane were found in spinach (0.2%), summer squash (1.6%), and winter squash (0.3%). All detections were well below the established action levels.

◆ **Multiple Pesticide Residue Detections**

By virtue of the MRMs employed, PDP provides novel data that can be used by EPA in evaluating exposure to multiple residues from

the same commodity. The data are crucial for assessments which consider cumulative exposure to pesticides which are determined to have common mechanisms of toxicity. The distribution of multiple pesticides occurring in samples tested during 2006 is presented in Appendix L.

These data indicate that 46 percent of all samples tested excluding treated and untreated drinking water contained no detectable pesticides, 28 percent contained 1 pesticide, and 26 percent contained more than 1 pesticide. Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues," as was reported in summaries prior to 2003. For example, a sample with positive detections for Endosulfan I, II, and sulfate would have been counted as three residues in the 2002 Appendix L. That sample would be counted as just one pesticide detected in Appendix L of this Summary.

Most multiple residue detections result from the application of more than one pesticide on a crop during a growing season; however, a number of other factors could contribute to multiple detections. Pesticide spray drift, residue transfer through crop rotation and at packing facilities, and/or presence of persistent environmental contaminants could all contribute to residue detections.

It should be noted that, in most cases, samples analyzed by PDP are composites of 3 to 5 pounds of commodity from the same lot. Therefore, the estimated concentrations for multiple residue detections in these composite sample results might or might not reflect the number of pesticides per concentration in a single serving item of a commodity.

◆ **Tolerance Violations**

A tolerance is defined under Section 408 of the Federal Food, Drug, and Cosmetic Act as the maximum quantity of a pesticide residue allowable on a raw agricultural commodity. Tolerances are also applicable to processed foods. A tolerance violation occurs when a

residue is found that exceeds the tolerance level or when a residue is found for which there is no established tolerance. With the exception of meat, poultry, and egg products, for which USDA is responsible, FDA enforces tolerances for all imported and domestic foods that move through interstate commerce. Although PDP is not an enforcement program, samples found to contain residues exceeding the tolerance and/or residues for which there is no established tolerance are reported to the FDA. This notification is made in accordance with a Memorandum of Understanding between USDA and FDA for the purpose of pinpointing areas where closer surveillance might be needed.

Residues exceeding the established tolerance are noted with an “X” in Appendices B, C, D, and E. Similarly, residues for which a tolerance is not established are noted with a “V.” The “X” and “V” annotations are followed by a number indicating the number of samples reported to FDA.

An established tolerance can apply to more than one residue because pesticides could break down into more than one metabolite or contain more than one isomer. For example, the tolerance for endosulfan combines residues of endosulfan I, endosulfan II, and endosulfan sulfate; and organophosphate tolerances may combine the parent compound and the sulfone and sulfoxide metabolites. Therefore, where applicable, the violations in Appendix M are combined residues of parent and any isomers and/or metabolites to count the total number of samples with tolerance violations.

In 2006, a total of 412 samples with 442 residues were reported to the FDA as Presumptive Tolerance Violations. Excluding samples for which no tolerances are set (bottled water and drinking water), residues exceeding the tolerance were detected in 0.2 percent of the 12,554 samples tested in 2006 - 31 samples with 1 residue each. Residues with no established tolerance were found in 3.1 percent

of the samples (367 samples with 1 residue each, 17 samples with 2 residues each, 2 samples with 3 residues each, and 1 sample with 4 residues). In most cases, these residues were detected at very low levels and some residues could have resulted from spray drift or crop rotations. The residue levels and commodities are listed in Appendix M.

◆ Bottled Water Results

Bottled water is the second most consumed beverage in the United States. Due to its high consumption, PDP began testing bottled water in 2005 and continued through 2006. Bottled water is regulated as a packaged food product by the FDA and State regulatory agencies. FDA adopted EPA’s Maximum Contaminant Levels (MCLs) for municipal water systems as its Standards of Quality (SOQs) for bottled water. Bottled water meets similar standards as municipal water systems.

Bottled water can come from many sources. Waters sampled by PDP included water which was purified from municipal sources, spring water, and melt water from glaciers. It is not required for bottled water to identify a specific source on the label, but bottlers must adhere to the FDA Standard of Identity regulations that provide uniform definitions for the following bottled water classifications: bottled, drinking, artesian, ground, distilled, deionized, reverse osmosis, mineral, purified, sparkling, spring, sterile, and well water. Ninety-eight different brands of bottled water were sampled in 2006. These included small local brands of bottled waters as well as nationally sold brands. Some bottling companies may have multiple sources for their water and may list them on the label. Sampling these major brands of bottled water from various locations across the country allows PDP to obtain samples from these multiple sources. Due to its weight and shipping cost, most bottled water comes from domestic sources; however, 51 samples were imports from Canada, Croatia, Fiji, France, Iceland, and Italy.

In 2006, PDP analyzed 367 bottled water samples using multiresidue methods to test for 84 pesticides and metabolites. Twelve different residues from 6 different pesticides were detected in 19 percent of the bottled water samples collected. All of the detections were commonly used herbicides and their metabolites. Appendix F provides a distribution of residues detected in bottled water.

Table 5 shows the residues which were detected in the bottled water sampled by PDP in 2006. The bulk of the residue detections occurred in spring waters while only 3.5 percent of the samples purified from municipal sources contained any detectable residues. Most samples with detectable residues contained only a single pesticide or metabolite. A few of the samples contained multiple residues with a maximum of four detectable pesticides within a given sample. All detections were well below established FDA SOQs.

◆ Drinking Water Results

Figure 7 shows the distribution of drinking water sites for the 2006 PDP testing program. Untreated and finished drinking water samples were collected from community water systems in Alabama, Arizona, California, Florida, Georgia, Iowa, Louisiana, Minnesota, Missouri,

Montana, New Jersey, North Dakota, Pennsylvania, South Carolina, and the District of Columbia. Each watershed reflects the local topography, watershed size, geomorphology, soil types, geology, land use, land management practices, crop varieties, pesticides applied, and application methods. Due to the complexities associated with water quality assessments, these data reflect only the unique characteristics of the watersheds from which the samples were obtained.

PDP analyzed 737 water samples from community water systems using MRMs to test for more than 240 pesticides and metabolites. Treatment plants participating in the 2006 survey draw from surface water for primary source waters. The data presented here are for the untreated water collected at treatment plant intakes and treated water (post-disinfection) collected just prior to distribution to customers. Forty-eight different residues were detected in the untreated intake water and 39 in the finished water. Most of the detections were of commonly used herbicides and their metabolites. The majority of pesticides included in the PDP testing profiles were not detected and none of the detections in the finished water samples exceeded EPA MCL or Health Advisory (HA) levels.

Bottled Water Source	Number of Samples Collected	Number of Samples with Residues	Number of Residues Detected	Origin
Glacier	1	0	0	Domestic
Purified Drinking Water	85	3	1-2	Domestic, Canada
Spring Water	273	64	1-8	U.S., Canada, France
Unknown Source	8	3	1-4	Domestic

Table 5. Origin of Bottled Water Samples and Number of Residues Detected. PDP analyzed 367 bottled water samples using multiresidue methods to test for 84 pesticides and metabolites. Twelve different residues from 6 different pesticides were detected in 19 percent of the bottled water samples. Spring water samples from Croatia, Fiji, Iceland, and Italy had no detectible residues. All of the detections were of commonly used herbicides and their metabolites. Appendix F provides a distribution of residues detected in bottled water.

Community Water System Drawing from the Potomac River

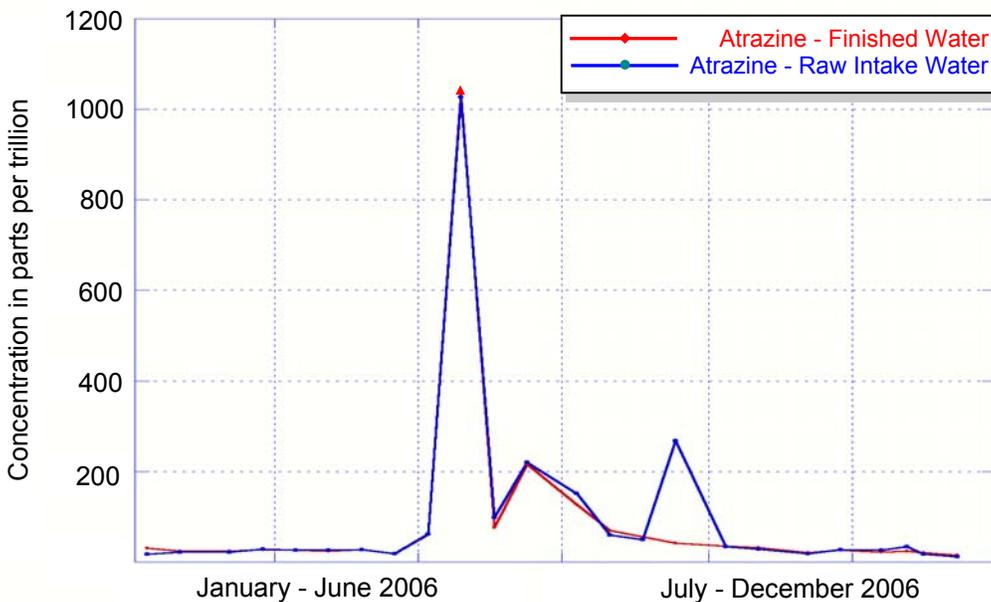
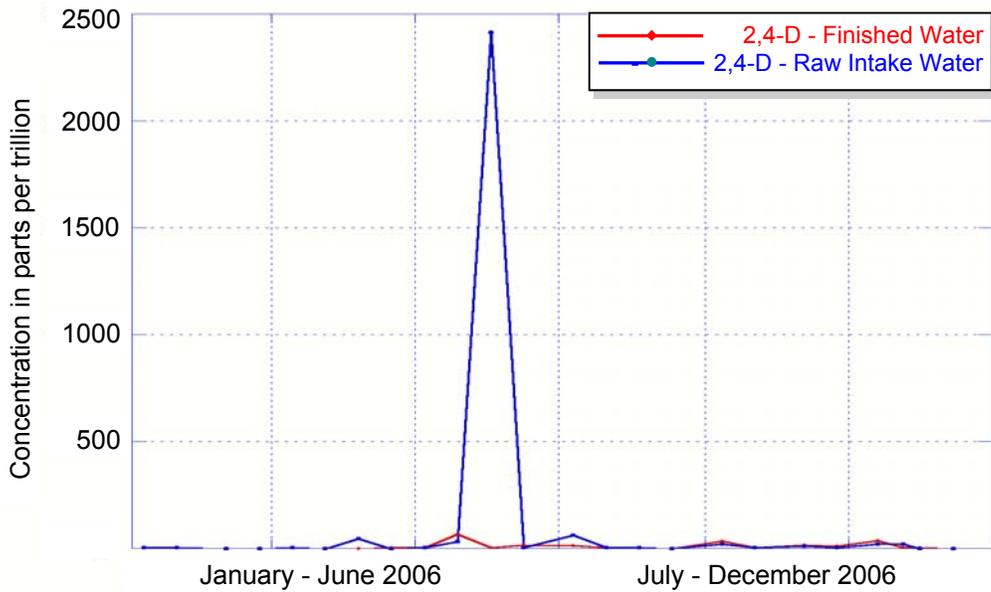


Figure 9. Water Treatment Effects on Different Pesticides. Results are depicted for two herbicides; 2,4-D and Atrazine at a site drawing from the Potomac River. In the first graph, 2,4-D is effectively removed from a concentration of 2400 parts per trillion in the raw untreated water to the limit of detection of the instrument analyzing the sample (6 parts per trillion) in the treated water. In the second graph, the treatment by the municipal water system shows no effect upon the atrazine concentration. Removal of a pesticide is a function of its physical properties and the type of treatment being used by the water system.

Appendix G lists the MCL and/or HA values; however, many of the compounds in the PDP testing profiles do not have established regulatory standards. For comparative purposes, EPA Fresh Aquatic Organism (FAO) criteria, which are much lower than human-based MCLs or HA levels, also are given. These criteria are lower than MCL or HA levels due primarily to higher exposure to these compounds because aquatic organisms live all or most of their lives in water. During 2006, no detections exceeded established FAO levels. Additional information regarding EPA drinking water standards is available at: <http://www.epa.gov/safewater/standard/setting.html>.

Water treatment technologies vary widely and may be based on the local water chemistry, targeted contaminants needing removal, and cost. Appendix G shows the concentration of detected residues in treated and untreated water. In most cases, there were more detections in the untreated water than the treated water. In a few cases, residues detected

in the treated water were not detected in the untreated water. The data acquired to date indicate that the water treatment process removed matrix interferences, allowing for a more sensitive measurement in the treated water. Depending on the treatment process employed, individual pesticides are entirely, partially, or not removed during the treatment process.

Figure 9 shows concentrations of the herbicides 2,4-D and atrazine in both the untreated water and the treated (finished) water for the site in the District of Columbia. The figure shows that 2,4-D is effectively removed from the water during the treatment process at this treatment facility. At the same treatment facility, however, no difference in the concentration of atrazine is observed between the untreated water and the treated water. Due to the vast diversity in pesticide properties, no single water treatment method can remove all pesticides. Monitoring data provided to municipal systems can aid facilities in determining the most effective and cost-saving treatment method for their facilities.



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Appendix A

Commodity History

Appendix A identifies commodities sampled by the Pesticide Data Program through December 2007. Updates to this list are posted on the PDP Web site at <http://www.ams.usda.gov/pdp>.

COMMODITY HISTORY AS OF DECEMBER 2007

Fresh Commodities

Commodity	Start Date	End Date
Apples ¹	Sep-91	Dec-96
Apples (S-1)	Jan-99	Dec-99
Apples (S-2)	Jan-99	May-99
Apples	Oct-00	Sep-02
Apples	Jan-04	Dec-05
Apples (T-1)	Jan-03	Dec-03
Asparagus	Jan-02	Jun-03
Bananas	Sep-91	Sep-95
Bananas	Jan-01	Dec-02
Bananas	Jan-06	Dec-07
Bananas (TSP)	Jul-03	Dec-03
Blueberries ²	Jan-07	Ongoing
Broccoli	Oct-92	Dec-94
Broccoli	Jan-01	Dec-02
Broccoli	Oct-06	Ongoing
Cantaloupe	Jul-98	Jun-00
Cantaloupe	Oct-03	Sep-05
Carrots ¹	Oct-92	Sep-96
Carrots	Oct-00	Sep-02
Carrots	Jan-06	Dec-07
Cauliflower	Oct-04	Sep-06
Celery	Feb-92	Mar-94
Celery	Jan-01	Dec-02
Celery	Jan-07	Ongoing
Cherries ³	May-00	Aug-01
Cherries	May-07	Sep-07
Cranberries	Oct-06	Dec-06
Cucumbers	Jan-99	Dec-00
Cucumbers	Oct-02	Sep-04
Eggplant	Jan-05	Dec-06
Eggs (TSP)	Jul-03	Dec-03
Grapefruit	Aug-91	Dec-93
Grapefruit	Jan-05	Dec-06
Grapes ¹	May-91	Dec-96
Grapes	Jan-00	Dec-01

Commodity	Start Date	End Date
Grapes (TSP)	Jul-03	Dec-03
Grapes	Jan-04	Dec-05
Green Beans	Feb-92	Dec-95
Green Beans	Jan-00	Dec-01
Green Beans	Apr-04	Mar-05
Green Beans	Jan-07	Ongoing
Greens (collard & kale)	Oct-06	Ongoing
Lettuce	May-91	Dec-94
Lettuce	Oct-99	Sep-01
Lettuce	Jan-04	Dec-05
Mushrooms	Oct-01	Sep-03
Nectarines ⁴	Jul-00	Sep-01
Nectarines	Jan-07	Ongoing
Onions	Jan-02	Dec-03
Oranges ¹	Aug-91	Dec-96
Oranges	Jan-00	Dec-01
Oranges	Jan-04	Dec-05
Peaches	Feb-92	Sep-96
Peaches (S-3)	Jan-00	Sep-00
Peaches ⁵	Jan-01	Sep-02
Peaches	Oct-06	Ongoing
Peaches (T-1)	May-03	Sep-03
Pears	Jan-97	Jun-99
Pears (S-1)	Jul-98	Jun-99
Pears	Oct-03	Sep-05
Pineapples	Jul-00	Jun-02
Plums ⁶	Jan-05	Dec-06
Potatoes	May-91	Dec-95
Potatoes (S-4)	Dec-96	Dec-97
Potatoes	Jul-00	Jun-02
Spinach ¹	Jan-95	Sep-97
Spinach	Jul-02	Dec-03
Spinach ⁷	Jan-06	Sep-06
Strawberries ²	Jan-98	Sep-00
Strawberries	Jan-04	Dec-05
Summer Squash	Oct-06	Ongoing
Sweet Bell Peppers	Jan-99	Dec-00
Sweet Bell Peppers	Oct-02	Sep-04

Commodity	Start Date	End Date
Sweet Potatoes ¹	Jan-96	Jun-98
Sweet Potatoes	Jan-03	Dec-04
Tomatoes ¹	Jul-96	Jun-99
Tomatoes	Jan-03	Dec-04
Tomatoes	Jan-07	Ongoing
Watermelon ⁸	Oct-05	Sep-06
Winter Squash ²	Jan-97	Jun-99
Winter Squash	Jul-04	Jun-06

¹ Excludes sampling hiatus September - November 1996.

² Frozen collected when fresh unavailable.

³ Sampling adjusted for market availability. Cherries were sampled for two years (May-00 - Aug-01) for a total of six months.

⁴ Sampling adjusted for market availability. Nectarines were sampled for two years (Jul-00 - Sep-01) for a total of six months.

⁵ Sampling adjusted for market availability. Peaches were sampled for two years (Jan-01 - Sep-02) for a total of sixteen months.

⁶ Dried plums (prunes) were collected when fresh plums were not available.

⁷ Spinach ended 1earlier than planned due to the unavailability of product.

⁸ Samples collected in California, Florida, and Texas only.

(S-1) Special single serving project testing for organophosphates.

(S-2) Special single serving project testing for carbamates.

(S-3) Special single serving project testing for carbamate, organochlorine, organophosphate, organonitrogen, and sulfur compounds.

(S-4) Special single serving project testing for aldicarb.

(T-1) Triazole parent and metabolite compounds only.

(TSP) Triazole Sampling Project. Samples sent to contract laboratory.

Processed Commodities

Commodity	Start Date	End Date
Almonds	Jul-07	Ongoing
Apple Juice ¹	Jul-96	Dec-98
Apple Juice	Jan-02	Dec-02
Apple Juice	Jul-07	Ongoing
Applesauce	Jul-02	Dec-02
Applesauce	Jan-06	Dec-06
Asparagus, Canned	Jul-03	Dec-03
Blueberries, Frozen ²	Jan-07	Ongoing
Corn Syrup ³	Jan-98	Jun-99
Grape Juice	Jan-98	Dec-99
Green Beans, Canned/Frozen ¹	Jan-96	Jun-98
Green Beans, Canned	Jan-03	Mar-04
Green Beans, Frozen	Apr-05	Dec-05
Honey	Oct-07	Ongoing
Orange Juice	Jan-97	Dec-98
Orange Juice	Oct-04	Sep-06
Peaches, Canned	Dec-96	Dec-97
Peaches, Canned	Jan-03	Dec-04
Peaches, Canned (T-1)	Jan-03	Mar-03
Peaches, Canned (T-1)	Oct-03	Dec-03
Peanut Butter	Jan-00	Dec-00
Peanut Butter	Jan-06	Dec-06
Peanut Butter (TSP)	Jul-03	Dec-03
Pear Juice, Concentrate/Puree	Jul-02	Jun-03
Pears, Canned	Jul-99	Jun-00
Peas, Canned/Frozen	Apr-94	Jun-96
Peas, Canned/Frozen ⁴	Oct-01	Sep-03
Peas, Frozen	Jan-06	Dec-06
Plums, Dried (Prunes) ⁵	Jan-05	Dec-06
Potatoes, Frozen	Jan-06	Dec-07
Raisins	Jul-06	Jun-07
Spinach, Canned	Oct-97	Dec-98
Spinach, Frozen	Jan-99	Dec-99
Spinach, Canned	Jan-04	Jun-04
Strawberries, Frozen ²	Jan-98	Sep-00
Sweet Corn, Canned/Frozen	Apr-94	Mar-96

Commodity	Start Date	End Date
Sweet Corn, Canned/Frozen ⁴	Oct-01	Sep-03
Tomato Paste, Canned	Jan-01	Jun-01
Tomatoes, Canned	Jul-99	Jun-00
Winter Squash, Frozen ²	Jan-97	Jun-99

¹ Excludes sampling hiatus September - November 1996

² Frozen collected when fresh unavailable

³ Excludes sampling hiatus January 1999

⁴ Canned samples collected in first year and frozen samples in second year of testing.

⁵ Dried plums (prunes) were collected when fresh plums were not available.

(T-1) Triazole parent and metabolite compounds only.

(TSP) Triazole Sampling Project. Samples sent to contract laboratory.

Grains

Commodity	Start Date	End Date
Barley	Oct-01	Sep-03
Corn	Oct-06	Ongoing
Oats	Jul-99	Apr-00
Rice	Oct-00	Sep-02
Soybeans	Sep-96	Feb-98
Soybeans	Oct-03	Sep-05
Soybean Rust/Aphid	Oct-05	Dec-05
Wheat	Feb-95	Jan-98
Wheat	Sep-04	Jun-06
Wheat Flour	Jan-03	Dec-04
Wheat Flour (T-1)	Jan-03	Dec-03

Dairy

Commodity	Start Date	End Date
Butter	Jan-03	Dec-03
Heavy Cream	Jul-05	Dec-05
Heavy Cream	Jan-07	Dec-07
Milk ¹	Jan-96	Oct-98
Milk (TSP)	Jul-03	Dec-03
Milk	Jan-04	Dec-05

Meat / Poultry Products

Commodity	Type	Start Date	End Date
Poultry	Young Chickens	Apr-00	Mar-01
Poultry	Young & Mature Chickens	Jan-06	Dec-06
Beef	Cows, Heifers, Steers	Jun-01	Jul-02
Pork	Gilt, Barrow	Jan-05	Jun-05

Drinking Water

States	Start Date	End Date
Finished Water Only		
California, Colorado, Kansas, New York, Texas	Mar-01	Dec-03
Raw Intake and Finished Water		
Alabama, Arizona, California, Colorado, Florida, Georgia, Indiana, Iowa, Kansas, Louisiana, Maryland, Michigan, Minnesota, Missouri, Montana, North Carolina, North Dakota, New Jersey, New York, Ohio, Oregon, Pennsylvania, South Carolina, Texas, Washington, Washington D.C.	Jan-04	Ongoing
Bottled Water		
10 Participating States	Jan-05	Dec-06
Groundwater		
75 Private Wells in 33 States	Jan-07	Ongoing

¹ Excludes sampling hiatus September - November 1996
(T-1) Triazole parent and metabolite compounds only.
(TSP) Triazole Sampling Project. Samples sent to contract laboratory.

Appendix B

Distribution of Residues by Pesticide in Fruit and Vegetables

Appendix B shows residue detections for all fruit and vegetable pesticide/commodity pairs tested, including range of values detected, range of Limits of Detection (LODs), Environmental Protection Agency (EPA) tolerances, and Codex Maximum Residue Limit/Extraneous Maximum Residue Limit (MRL/EMRL) references for each pair.

In 2006, 9,818 fruit and vegetable samples were analyzed, of which 6,433 were fresh product and 3,385 were processed product.

PDP reports tolerance violations to the Food and Drug Administration (FDA) as part of an interagency Memorandum of Understanding between the U.S. Department of Agriculture and FDA. Residues reported to FDA are shown in the “Pesticide/Commodity” column to the right of the commodity and are annotated as “X” (if the residue exceeded the established tolerance) or “V” [if the residue did not have a tolerance listed in the Code of Federal Regulations (CFR), Title 40, Part 180]. In both cases, these annotations are followed by a number indicating the number of samples reported to FDA.

Action levels (ALs) are shown in this appendix, where applicable, and denote Action Level values established by FDA and/or Extraneous Maximum Residue Levels (EMRLs) established by the Codex Alimentarius Commission. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.

Data to establish Codex MRLs are evaluated by the Food and Agriculture and World Health Organization-sponsored Joint Meeting on Pesticide Residues (JMPR) based on toxicology, residue occurrence in crops determined by supervised field trials, and dietary exposure. The Codex Committee on Pesticide Residues (CCPR) meets annually to discuss proposed MRLs and recommends approval to the Codex Alimentarius Commission. This means that Codex MRLs represent levels that are considered safe to humans. MRLs/EMRLs shown in this appendix are from the Codex Alimentarius: *Proc. of Codex Committee on Pesticide Residues*, 39th Session, May 7-12, 2007, Beijing, China. Only Codex MRLs (CXLs) are listed.

The information herein is only intended to be an initial reference. Readers are reminded that international regulations and MRLs can change and that it is important that information obtained from this table be verified with knowledgeable parties in the market of interest prior to sale or shipment of exports.

APPENDIX B. DISTRIBUTION OF RESIDUES BY PESTICIDE IN FRUIT AND VEGETABLES

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Accephate (insecticide)							
Applesauce	744	4	0.5	0.003 ^	0.002 ^	0.02	-
Bananas	742	0			0.002 - 0.005	0.02	-
Carrots	216	0			0.002 ^	0.02	-
Cranberries	84	21	25.0	0.003 - 0.14	0.002 ^	0.5	-
Eggplant (X-3)	740	5	0.7	0.008 - 0.70	0.005 ^	0.02	-
Grapefruit	743	0			0.002 - 0.004	0.02	-
Greens, Collard	86	0			0.002 - 0.030	0.02	-
Greens, Kale	98	0			0.002 - 0.030	0.02	-
Orange Juice	557	0			0.002 ^	0.02	-
Peaches	90	0			0.002 ^	0.02	-
Plums	515	0			0.005 ^	0.02	-
Plums, Dried (Prunes)	224	0			0.005 ^	0.02	-
Potatoes, Frozen	744	0			0.002 ^	0.02	-
Raisins	372	0			0.004 - 0.005	0.02	-
Spinach (X-1)	511	13	2.5	0.003 - 0.081	0.002 - 0.007	0.02	-
Summer Squash	186	0			0.002 - 0.005	0.02	-
Sweet Peas, Frozen	744	0			0.002 - 0.005	0.02	-
Watermelon (X-13)	550	19	3.5	0.003 - 0.31	0.002 - 0.005	0.02	-
Winter Squash (X-1)	<u>369</u>	<u>9</u>	2.4	0.008 - 0.041	0.002 - 0.005	0.02	-
TOTAL	8,315	71					
Acetamiprid (insecticide)							
Applesauce	744	383	51.5	0.001 - 0.031	0.0006 - 0.001	1.0	-
Broccoli	185	10	5.4	0.001 - 0.007	0.0006 ^	1.20	-
Cauliflower	558	3	0.5	0.001 ^	0.0006 ^	1.20	-
Greens, Collard	86	2	2.3	0.013 - 0.13	0.001 - 0.010	1.20	-
Greens, Kale	98	7	7.1	0.014 - 0.98	0.001 - 0.010	1.20	-
Potatoes, Frozen	744	0			0.001 ^	0.01	-
Raisins	372	11	3.0	0.002 - 0.075	0.001 - 0.050	0.20	-
Spinach (X-4)	<u>511</u>	<u>37</u>	7.2	0.001 - 0.55	0.0006 - 0.001	0.20	-
TOTAL	3,298	453					
Acibenzolar S methyl (plant activator)							
Applesauce	528	0			0.007 ^	NT	-
Broccoli	185	0			0.007 ^	1.0	-
Cauliflower	558	0			0.007 ^	1.0	-
Spinach	<u>366</u>	<u>0</u>			0.007 ^	1.0	-
TOTAL	1,637	0					
Alachlor (herbicide)							
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	261	0					
Aldicarb (insecticide)							
Applesauce	528	0			0.001 ^	NT	-
Bananas	526	0			0.010 ^	NT	-
Broccoli	185	0			0.001 ^	NT	-
Cauliflower	558	0			0.001 ^	NT	-
Grapefruit	216	0			0.007 - 0.008	0.3	0.2
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	557	0			0.001 - 0.010	0.3	0.2
Potatoes, Frozen	744	0			0.001 - 0.008	1	0.5
Spinach	352	0			0.001 ^	NT	-
Sweet Peas, Frozen	528	0			0.010 - 0.018	NT	-
Watermelon	189	0			0.010 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.020 ^	NT	-
TOTAL	4,774	0					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Aldicarb sulfone (metabolite of Aldicarb)							
Applesauce	514	0			0.003 ^	NT	-
Bananas	526	0			0.010 - 0.050	NT	-
Broccoli	185	0			0.010 ^	NT	-
Cauliflower	542	0			0.003 ^	NT	-
Grapefruit	743	1	0.1	0.015 ^	0.009 - 0.012	0.3	0.2
Orange Juice	557	0			0.001 - 0.010	0.3	0.2
Potatoes, Frozen	744	23	3.1	0.002 - 0.020	0.001 - 0.009	1	0.5
Spinach	366	0			0.003 ^	NT	-
Sweet Peas, Frozen	528	0			0.010 - 0.020	NT	-
Watermelon	189	0			0.010 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.038 ^	NT	-
TOTAL	5,155	24					
Aldicarb sulfoxide (metabolite of Aldicarb)							
Applesauce	469	0			0.002 - 0.003	NT	-
Bananas	526	0			0.010 - 0.050	NT	-
Cauliflower	386	0			0.004 ^	NT	-
Grapefruit	216	4	1.9	0.008 - 0.063	0.005 ^	0.3	0.2
Orange Juice	557	37	6.6	0.002 - 0.005	0.001 - 0.010	0.3	0.2
Potatoes, Frozen	744	60	8.1	0.002 - 0.039	0.001 - 0.009	1	0.5
Spinach	295	0			0.002 - 0.003	NT	-
Sweet Peas, Frozen	528	0			0.010 - 0.018	NT	-
Watermelon	189	0			0.010 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.038 ^	NT	-
TOTAL	4,171	101					
Aldrin (insecticide) (parent of Dieldrin)							
Applesauce	729	0			0.003 - 0.007	0.03 AL	0.05
Bananas	742	0			0.002 - 0.003	0.02 AL	-
Broccoli	185	0			0.007 ^	0.03 AL	-
Carrots	743	0			0.003 - 0.023	0.1 AL	0.1
Cauliflower	558	0			0.007 ^	0.03 AL	-
Cranberries	316	0			0.003 - 0.012	NT	-
Eggplant	740	0			0.006 ^	0.05 AL	-
Grapefruit	743	0			0.003 - 0.008	0.02 AL	0.05
Greens, Collard	17	0			0.003 ^	0.05 AL	0.05
Greens, Kale	37	0			0.003 ^	0.05 AL	0.05
Orange Juice	557	0			0.003 - 0.008	0.02 AL	0.05
Peaches	90	0			0.003 ^	0.02 AL	-
Plums	515	0			0.006 ^	0.3 AL	-
Plums, Dried (Prunes)	224	0			0.006 ^	0.3 AL	-
Potatoes, Frozen	744	0			0.003 ^	0.1 AL	0.1
Spinach	511	0			0.003 - 0.007	0.05 AL	0.05
Summer Squash	186	0			0.002 - 0.003	0.1 AL	0.1
Sweet Peas, Frozen	744	0			0.002 - 0.003	0.03 AL	0.05
Watermelon	550	0			0.002 - 0.003	0.1 AL	0.1
Winter Squash	<u>108</u>	<u>0</u>			0.003 ^	0.1 AL	0.1
TOTAL	9,039	0					
Allethrin (insecticide)							
Applesauce	216	0			0.010 ^	4	-
Bananas	526	0			0.015 ^	NT	-
Cranberries	316	0			0.010 - 0.040	NT	-
Grapefruit	743	0			0.010 - 0.040	NT	-
Orange Juice	535	0			0.010 ^	4	-
Peaches	90	0			0.010 ^	NT	-
Plums	515	0			0.021 ^	4	-
Plums, Dried (Prunes)	224	0			0.021 ^	4	-
Raisins	372	3	0.8	0.033 - 0.085	0.020 - 0.030	4	-
Sweet Peas, Frozen	308	0			0.015 ^	NT	-
Watermelon (V-4)	189	4	2.1	0.017 - 0.029	0.015 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	4,295	7					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Ametryn (herbicide)							
Bananas	706	0			0.010 ^	0.25	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	44	0			0.010 ^	NT	-
Sweet Peas, Frozen	286	0			0.010 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.010 ^	NT	-
TOTAL	1,355	0					
Anilazine (fungicide)							
Sweet Peas, Frozen	<u>220</u>	<u>0</u>			0.006 ^	NT	-
TOTAL	220	0					
Atrazine (herbicide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	526	0			0.008 ^	NT	-
Broccoli	171	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Orange Juice	44	0			0.010 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.008 - 0.015	NT	-
Watermelon	189	0			0.008 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.024 ^	NT	-
TOTAL	3,171	0					
Azinphos (insecticide)							
Sweet Peas, Frozen	<u>220</u>	<u>0</u>			0.010 ^	NT	-
TOTAL	220	0					
Azinphos methyl (insecticide)							
Applesauce	744	4	0.5	0.013 - 0.020	0.008 - 0.012	1.5	2
Bananas	526	0			0.011 ^	NT	1
Cranberries	316	0			0.008 - 0.014	0.5	0.1
Eggplant	740	0			0.004 ^	0.3	0.5
Grapefruit	216	0			0.008 ^	2.0	1
Greens, Collard	69	0			0.011 ^	NT	0.5
Greens, Kale	61	0			0.011 ^	NT	0.5
Orange Juice	557	0			0.008 ^	2.0	1
Peaches	90	20	22.2	0.002 - 0.83	0.001 - 0.008	2.0	2
Plums	515	17	3.3	0.007 - 0.017	0.004 ^	2.0	2
Plums, Dried (Prunes)	224	1	0.4	0.014 ^	0.004 ^	2.0	2
Potatoes, Frozen	744	0			0.001 - 0.008	0.2	0.05
Raisins	372	1	0.3	0.020 ^	0.012 - 0.015	4.0	1
Spinach	511	0			0.008 - 0.025	2.0	0.5
Sweet Peas, Frozen	528	0			0.010 - 0.011	NT	0.5
Watermelon	550	0			0.008 - 0.012	2.0	0.2
Winter Squash	<u>261</u>	<u>0</u>			0.012 ^	NT	0.5
TOTAL	7,024	43					
Azoxystrobin (fungicide)							
Applesauce	528	0			0.0009 - 0.002	NT	-
Bananas	742	19	2.6	0.0008 - 0.019	0.0005 - 0.010	2.0	-
Broccoli	185	11	5.9	0.002 - 0.10	0.0009 ^	3.0	-
Carrots	744	117	15.7	0.0008 - 0.046	0.0005 - 0.0008	0.5	-
Cauliflower	558	0			0.002 ^	3.0	-
Cranberries	316	102	32.3	0.0001 - 0.012	0.0001 - 0.0005	0.50	-
Grapefruit	743	28	3.8	0.0004 - 0.002	0.0004 - 0.0005	10.0	-
Greens, Collard	86	33	38.4	0.002 - 4.2	0.0005 - 0.002	25	-
Greens, Kale	98	33	33.7	0.0008 - 3.0	0.0005 - 0.002	25	-
Orange Juice	557	0			0.0005 - 0.010	10.0	-
Peaches	90	2	2.2	0.005 - 0.024	0.0005 - 0.001	1.5	-
Potatoes, Frozen	744	6	0.8	0.0008 ^	0.0005 - 0.001	1.5	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Raisins	372	6	1.6	0.0008 - 0.031	0.0005 - 0.030	1.0	-
Spinach	511	59	11.5	0.0008 - 3.4	0.0005 - 0.002	30.0	-
Summer Squash	186	5	2.7	0.0008 - 0.039	0.0005 - 0.030	0.3	-
Sweet Peas, Frozen	700	1	0.1	0.065 ^	0.0005 - 0.005	3.0	-
Watermelon	550	2	0.4	0.0008 - 0.002	0.0005 - 0.020	0.3	-
Winter Squash	108	4	3.7	0.0008 - 0.002	0.0005 ^	0.3	-
TOTAL	7,818	428					
Bendiocarb (insecticide)							
Applesauce	744	0			0.002 - 0.040	SU	-
Bananas	742	0			0.002 - 0.005	SU	-
Broccoli	185	0			0.040 ^	SU	-
Carrots	744	0			0.002 - 0.004	SU	-
Cauliflower	558	0			0.040 ^	SU	-
Cranberries	316	0			0.002 - 0.021	SU	-
Eggplant	740	0			0.010 ^	SU	-
Grapefruit	743	0			0.002 - 0.010	SU	-
Greens, Collard	86	0			0.002 - 0.005	SU	-
Greens, Kale	98	0			0.002 - 0.005	SU	-
Orange Juice	557	0			0.001 - 0.010	SU	-
Peaches	90	0			0.001 - 0.002	SU	-
Plums	515	1	0.2	0.017 ^	0.010 ^	SU	-
Plums, Dried (Prunes)	224	0			0.010 ^	SU	-
Potatoes, Frozen	744	0			0.001 - 0.002	SU	-
Raisins	372	0			0.002 - 0.030	SU	-
Spinach	511	0			0.002 - 0.040	SU	-
Summer Squash	186	0			0.002 - 0.015	SU	-
Sweet Peas, Frozen	502	0			0.002 - 0.005	SU	-
Watermelon	550	0			0.002 - 0.016	SU	-
Winter Squash	108	0			0.002 ^	SU	-
TOTAL	9,315	1					
Benoxacor (herbicide safener)							
Cranberries	84	0			0.004 ^	0.5	-
Peaches	90	0			0.003 - 0.004	0.01	-
Potatoes, Frozen	744	0			0.003 - 0.004	0.01	-
Sweet Peas, Frozen	216	0			0.004 ^	0.01	-
TOTAL	1,134	0					
BHC alpha (insecticide)							
Applesauce	744	0			0.002 - 0.007	0.05 AL	-
Bananas	526	0			0.002 ^	NT	-
Broccoli	169	0			0.007 ^	0.5 AL	-
Carrots	743	0			0.002 - 0.026	0.3 AL	-
Cauliflower	558	0			0.007 ^	0.05 AL	-
Cranberries	316	0			0.002 - 0.025	NT	-
Eggplant	740	0			0.004 ^	0.05 AL	-
Grapefruit	743	0			0.002 - 0.005	0.05 AL	-
Greens, Collard	17	0			0.002 ^	0.05 AL	-
Greens, Kale	37	0			0.002 ^	0.05 AL	-
Orange Juice	557	0			0.002 ^	0.05 AL	-
Peaches	90	0			0.002 ^	0.05 AL	-
Plums	515	0			0.003 ^	0.05 AL	-
Plums, Dried (Prunes)	224	0			0.003 ^	0.05 AL	-
Potatoes, Frozen	744	0			0.002 ^	0.05 AL	-
Spinach	511	0			0.002 - 0.007	0.05 AL	-
Summer Squash	186	0			0.002 ^	0.05 AL	-
Sweet Peas, Frozen	744	0			0.0009 - 0.002	0.05 AL	-
Watermelon	550	0			0.002 ^	0.05 AL	-
Winter Squash	369	0			0.002 - 0.004	0.05 AL	-
TOTAL	9,083	0					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
BHC beta (isomer of BHC alpha)							
Sweet Peas, Frozen	<u>220</u>	<u>0</u>			0.0009 ^	NT	-
TOTAL	220	0					
Bifentazate (acaricide)							
Applesauce	216	0			0.020 ^	0.75	1
Peaches	19	1	5.3	0.033 ^	0.020 ^	2.5	2
Potatoes, Frozen	744	0			0.001 - 0.020	0.05	-
Raisins	108	0			0.040 ^	1.2	2
Summer Squash	54	0			0.020 ^	0.75	0.7
Watermelon	181	0			0.020 ^	0.75	0.3
Winter Squash	<u>369</u>	<u>0</u>			0.013 - 0.020	0.75	0.7
TOTAL	1,691	1					
Bifenthrin (insecticide)							
Applesauce	744	0			0.003 - 0.010	0.05	-
Bananas	742	0			0.010 - 0.011	0.1	-
Broccoli	185	2	1.1	0.005 ^	0.003 ^	0.6	-
Carrots	743	0			0.010 - 0.015	0.05	-
Cauliflower	558	0			0.003 ^	0.6	-
Cranberries	316	0			0.005 - 0.010	NT	-
Eggplant	740	1	0.1	0.047 ^	0.028 ^	0.05	-
Grapefruit	743	0			0.010 ^	0.05	0.05
Greens, Collard	17	0			0.010 ^	3.5	-
Greens, Kale	37	0			0.010 ^	3.5	-
Orange Juice	557	0			0.010 ^	0.05	0.05
Peaches	90	0			0.010 ^	NT	-
Plums	515	0			0.037 ^	0.05	-
Plums, Dried (Prunes)	224	0			0.037 ^	0.05	-
Potatoes, Frozen	744	0			0.010 ^	0.05	0.05
Raisins	372	0			0.020 - 0.030	0.2	-
Spinach	511	9	1.8	0.005 ^	0.003 - 0.010	0.05	-
Summer Squash	186	18	9.7	0.007 - 0.043	0.004 - 0.010	0.4	-
Sweet Peas, Frozen	744	0			0.010 - 0.025	0.6	-
Watermelon	550	3	0.5	0.007 - 0.017	0.004 - 0.011	0.4	-
Winter Squash	<u>369</u>	<u>0</u>			0.010 - 0.016	0.4	-
TOTAL	9,687	33					
Bitertanol (fungicide)							
Bananas	526	0			0.010 - 0.050	0.2	0.05
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.010 ^	NT	-
TOTAL	845	0					
Boscalid (fungicide)							
Applesauce	744	5	0.7	0.004 - 0.010	0.003 - 0.006	3.0	-
Bananas	526	0			0.010 - 0.050	0.20	-
Broccoli	185	0			0.006 ^	3.0	-
Carrots	743	63	8.5	0.004 - 0.085	0.003 - 0.025	0.7	-
Cauliflower	558	0			0.006 ^	3.0	-
Greens, Collard	86	4	4.7	0.004 - 0.92	0.003 - 0.010	18.0	-
Greens, Kale	98	6	6.1	0.004 - 0.046	0.003 - 0.010	18.0	-
Peaches	90	34	37.8	0.002 - 0.30	0.001 - 0.003	1.7	-
Potatoes, Frozen	744	10	1.3	0.002 - 0.004	0.001 - 0.003	0.05	-
Raisins	372	133	35.8	0.004 - 0.36	0.003 - 0.030	8.5	-
Spinach	511	18	3.5	0.004 - 0.013	0.003 - 0.006	60	-
Summer Squash	186	0			0.003 - 0.030	1.6	-
Sweet Peas, Frozen	744	1	0.1	0.004 ^	0.003 - 0.010	1.6	-
Watermelon	550	2	0.4	0.004 - 0.010	0.003 - 0.010	1.6	-
Winter Squash	<u>369</u>	<u>13</u>	3.5	0.004 - 0.065	0.003 - 0.039	1.6	-
TOTAL	6,506	289					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
Bromacil (herbicide)							
Grapefruit	743	0			0.015 - 0.067	0.1	-
Orange Juice	557	16	2.9	0.002 ^	0.001 - 0.025	0.1	-
Potatoes, Frozen	176	0			0.001 ^	NT	-
TOTAL	1,476	16					
Buprofezin (insecticide)							
Applesauce	744	2	0.3	0.0002 ^	0.0001 - 0.015	4.0	-
Bananas	742	0			0.015 ^	0.20	-
Broccoli	185	0			0.0001 ^	NT	-
Cauliflower (V-1)	558	1	0.2	0.0002 ^	0.0001 - 0.0002	NT	-
Eggplant	740	0			0.029 ^	NT	-
Grapefruit	743	0			0.0005 - 0.015	2.5	-
Orange Juice	557	0			0.015 ^	2.5	0.5
Peaches	90	0			0.015 ^	9.0	-
Raisins	372	1	0.3	0.21 ^	0.030 - 0.050	0.60	-
Spinach	366	0			0.0001 ^	NT	-
Summer Squash	186	0			0.015 - 0.040	0.50	-
Sweet Peas, Frozen	308	0			0.015 ^	NT	-
Watermelon	550	0			0.012 - 0.015	0.50	-
Winter Squash	108	0			0.015 ^	0.50	-
TOTAL	6,249	4					
Cadusafos (insecticide)							
Bananas	216	0			0.005 ^	0.01	0.01
TOTAL	216	0					
Captafol (fungicide) (parent of THPI)							
Bananas	526	0			0.015 ^	NT	-
Watermelon	189	0			0.015 ^	NT	-
TOTAL	715	0					
Captan (fungicide) (parent of THPI)							
Applesauce	216	0			0.012 ^	25	25
Bananas	526	0			0.008 ^	NT	-
Carrots	162	0			0.012 ^	2	-
Eggplant	740	1	0.1	0.030 ^	0.018 ^	25	-
Greens, Collard	17	0			0.012 ^	2	-
Greens, Kale	37	0			0.012 ^	2	-
Orange Juice	396	0			0.012 ^	NT	-
Peaches	90	1	1.1	0.042 ^	0.012 ^	50	15
Plums	515	1	0.2	0.027 ^	0.016 ^	100	-
Plums, Dried (Prunes)	224	1	0.4	0.027 ^	0.016 ^	100	-
Potatoes, Frozen	664	0			0.012 ^	25	0.05
Raisins	372	2	0.5	0.040 ^	0.010 - 0.024	50	-
Spinach	19	0			0.012 ^	100	-
Summer Squash	186	1	0.5	0.017 ^	0.010 - 0.012	25	-
Sweet Peas, Frozen	90	0			0.012 ^	2	-
Watermelon	449	0			0.008 - 0.012	25	-
Winter Squash	20	0			0.012 ^	25	-
TOTAL	4,723	7					
Carbaryl (insecticide)							
Applesauce	744	165	22.2	0.0005 - 0.23	0.0003 - 0.002	10	5
Bananas	742	1	0.1	0.003 ^	0.002 - 0.010	10	-
Broccoli	185	0			0.001 ^	10	-
Carrots	744	0			0.002 - 0.006	10	0.5
Cauliflower	558	0			0.0003 ^	10	-
Cranberries	316	12	3.8	0.003 ^	0.002 - 0.018	10	-
Eggplant	740	12	1.6	0.017 - 0.18	0.010 ^	10	1
Grapefruit	743	3	0.4	0.003 ^	0.002 - 0.006	10	7
Greens, Collard	86	0			0.002 - 0.010	12	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Greens, Kale	98	0			0.002 - 0.010	12	-
Orange Juice	557	165	29.6	0.002 - 0.016	0.001 - 0.010	10	7
Peaches	90	25	27.8	0.002 - 0.45	0.001 - 0.002	10	10
Plums	515	50	9.7	0.017 - 0.56	0.010 ^	10	-
Plums, Dried (Prunes)	224	1	0.4	0.043 ^	0.010 ^	10	-
Potatoes, Frozen	744	0			0.001 - 0.002	0.2	-
Raisins	372	9	2.4	0.008 - 0.036	0.002 - 0.006	10	5
Spinach	511	8	1.6	0.0005 - 0.093	0.0003 - 0.002	12	-
Summer Squash	186	0			0.002 - 0.006	10	-
Sweet Peas, Frozen	722	1	0.1	0.052 ^	0.002 - 0.010	10	-
Watermelon	550	1	0.2	0.007 ^	0.002 - 0.010	10	-
Winter Squash	369	0			0.002 - 0.008	10	-
TOTAL	9,796	453					
Carbendazim - MBC (fungicide) (metabolite of Benomyl)							
Applesauce	528	436	82.6	0.0005 - 0.040	0.0003 - 0.0005	7.0	3
Bananas	526	2	0.4	0.015 - 0.032	0.010 ^	1.0	0.2
Broccoli	185	0			0.0003 ^	0.2	-
Cauliflower	558	1	0.2	0.001 ^	0.0006 ^	0.2	-
Grapefruit	286	0			0.045 ^	10.0	-
Greens, Collard	69	1	1.4	0.037 ^	0.010 ^	0.2	-
Greens, Kale	61	0			0.010 ^	0.2	-
Potatoes, Frozen	22	0			0.001 ^	NT	-
Spinach	366	5	1.4	0.0005 - 0.001	0.0003 - 0.0005	0.2	-
Sweet Peas, Frozen	308	0			0.010 ^	NT	0.02
Watermelon	189	0			0.010 ^	1.0	-
TOTAL	3,098	445					
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)							
Applesauce	528	0			0.0003 ^	NT	-
Bananas	742	0			0.002 - 0.010	0.1	0.1
Broccoli	185	0			0.0003 ^	NT	-
Cauliflower	558	0			0.0003 ^	NT	-
Cranberries	316	0			0.002 - 0.019	0.5	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	396	0			0.001 - 0.010	NT	-
Potatoes, Frozen	744	0			0.001 - 0.002	2	0.1
Raisins	372	0			0.002 - 0.006	0.4	-
Spinach	366	0			0.0003 ^	NT	-
Summer Squash	186	0			0.002 - 0.006	0.6	-
Sweet Peas, Frozen	528	0			0.010 - 0.015	NT	-
Watermelon	550	6	1.1	0.006 - 0.13	0.002 - 0.010	0.4	-
Winter Squash	369	0			0.002 - 0.008	0.8	-
TOTAL	5,970	6					
Carbophenothion (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
TOTAL	1,637	0					
Carfentrazone ethyl (herbicide)							
Applesauce	744	0			0.001 - 0.002	0.10	-
Bananas	742	0			0.002 - 0.008	0.20	-
Broccoli	185	0			0.001 ^	0.10	-
Carrots	744	0			0.002 - 0.004	0.10	-
Cauliflower	558	0			0.001 ^	0.10	-
Eggplant	740	0			0.030 ^	0.10	-
Greens, Collard	86	0			0.002 - 0.008	0.10	-
Greens, Kale	98	0			0.002 - 0.008	0.10	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Peaches	19	0			0.002 ^	0.10	-
Potatoes, Frozen	216	0			0.002 ^	0.10	-
Raisins	372	0			0.002 - 0.030	0.10	-
Spinach	511	0			0.001 - 0.002	0.10	-
Summer Squash	186	0			0.002 - 0.020	0.10	-
Sweet Peas, Frozen	524	0			0.002 - 0.008	0.10	-
Watermelon	550	0			0.002 - 0.008	0.10	-
TOTAL	6,275	0					
Chlordane cis (insecticide) (isomer of Chlordane)							
Applesauce	744	0			0.0007 - 0.002	0.1 AL	0.02
Bananas	742	0			0.002 ^	0.1 AL	0.02
Broccoli	185	0			0.0007 ^	0.1 AL	0.02
Carrots	743	7	0.9	0.003 ^	0.002 - 0.004	0.1 AL	0.02
Cauliflower	558	0			0.0007 ^	0.1 AL	0.02
Cranberries	316	0			0.002 - 0.012	NT	0.02
Eggplant	740	0			0.003 ^	0.1 AL	0.02
Grapefruit	743	0			0.002 - 0.020	0.1 AL	0.02
Greens, Collard	17	0			0.002 ^	0.1 AL	0.02
Greens, Kale	37	0			0.002 ^	0.1 AL	0.02
Orange Juice	557	0			0.002 - 0.012	0.1 AL	0.02
Peaches	90	0			0.002 ^	0.1 AL	0.02
Plums	515	0			0.003 ^	0.1 AL	0.02
Plums, Dried (Prunes)	224	0			0.003 ^	0.1 AL	0.02
Potatoes, Frozen	744	0			0.002 ^	0.1 AL	0.02
Spinach	511	2	0.4	0.001 ^	0.0007 - 0.002	0.1 AL	0.02
Summer Squash	186	8	4.3	0.003 - 0.016	0.002 ^	0.1 AL	0.02
Sweet Peas, Frozen	744	0			0.002 - 0.015	0.1 AL	0.02
Watermelon	550	0			0.002 ^	0.1 AL	0.02
Winter Squash	369	5	1.4	0.003 ^	0.002 - 0.004	0.1 AL	0.02
TOTAL	9,315	22					
Chlordane trans (insecticide) (isomer of Chlordane)							
Applesauce	744	0			0.0007 - 0.002	0.1 AL	0.02
Bananas	742	0			0.002 ^	0.1 AL	0.02
Broccoli	185	0			0.0007 ^	0.1 AL	0.02
Carrots	743	0			0.002 - 0.004	0.1 AL	0.02
Cauliflower	558	0			0.0007 ^	0.1 AL	0.02
Cranberries	316	0			0.002 - 0.012	NT	0.02
Eggplant	740	0			0.003 ^	0.1 AL	0.02
Grapefruit	216	0			0.002 ^	0.1 AL	0.02
Greens, Collard	17	0			0.002 ^	0.1 AL	0.02
Greens, Kale	37	0			0.002 ^	0.1 AL	0.02
Orange Juice	557	0			0.002 - 0.012	0.1 AL	0.02
Peaches	90	0			0.002 ^	0.1 AL	0.02
Plums	515	0			0.003 ^	0.1 AL	0.02
Plums, Dried (Prunes)	224	0			0.003 ^	0.1 AL	0.02
Potatoes, Frozen	744	0			0.002 ^	0.1 AL	0.02
Spinach	511	1	0.2	0.001 ^	0.0007 - 0.002	0.1 AL	0.02
Summer Squash	186	3	1.6	0.003 - 0.008	0.002 ^	0.1 AL	0.02
Sweet Peas, Frozen	744	0			0.002 - 0.015	0.1 AL	0.02
Watermelon	550	0			0.002 ^	0.1 AL	0.02
Winter Squash	369	1	0.3	0.007 ^	0.002 - 0.004	0.1 AL	0.02
TOTAL	8,788	5					
Chlorethoxyfos (insecticide)							
Winter Squash	261	0			0.016 ^	NT	-
TOTAL	261	0					
Chlorfenapyr (insecticide)							
Eggplant	740	3	0.4	0.048 ^	0.029 ^	1.0	-
TOTAL	740	3					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Chlorfenvinphos (insecticide)							
Applesauce	528	0			0.004 ^	NT	-
Broccoli	185	0			0.004 ^	NT	-
Cauliflower	558	0			0.004 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.004 ^	NT	-
TOTAL	1,637	0					
Chlorothalonil (fungicide)							
Bananas	742	0			0.002 - 0.008	0.5	0.01
Carrots	216	0			0.008 ^	1	1
Cranberries	84	47	56.0	0.013 - 0.60	0.008 ^	5.0	5
Eggplant (V-3)	740	3	0.4	0.012 - 0.045	0.007 ^	NT	-
Greens, Collard (V-1)	1	1	100.0	0.013 ^	0.008 ^	NT	-
Greens, Kale (V-1)	1	1	100.0	0.45 ^	0.008 ^	NT	-
Orange Juice	396	0			0.008 ^	NT	-
Peaches	90	0			0.008 ^	0.5	0.2
Plums	515	0			0.008 ^	0.2	-
Plums, Dried (Prunes)	224	1	0.4	0.013 ^	0.008 ^	0.2	-
Potatoes, Frozen	744	0			0.008 ^	0.1	0.2
Spinach (V-3)	3	3	100.0	0.013 - 0.13	0.008 ^	NT	-
Summer Squash	186	9	4.8	0.013 - 0.13	0.008 - 0.010	5	5
Watermelon	550	2	0.4	0.004 ^	0.002 - 0.010	5	-
Winter Squash	<u>109</u>	<u>9</u>	8.3	0.013 - 0.10	0.007 - 0.008	5	5
TOTAL	4,601	76					
Chlorpropham (herbicide, growth regulator)							
Applesauce	528	0			0.006 ^	NT	-
Bananas	526	0			0.011 ^	NT	-
Broccoli	137	0			0.020 ^	NT	-
Cauliflower	558	0			0.006 ^	NT	-
Greens, Collard	69	0			0.038 ^	NT	-
Greens, Kale	61	0			0.038 ^	NT	-
Orange Juice	44	0			0.010 ^	NT	-
Potatoes, Frozen	744	457	61.4	0.017 - 3.5	0.010 ^	50	30
Spinach	511	0			0.006 - 0.010	NT	-
Sweet Peas, Frozen	528	0			0.006 - 0.011	NT	-
Watermelon	189	0			0.011 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.017 ^	NT	-
TOTAL	4,156	457					
Chlorpyrifos (insecticide)							
Applesauce	714	0			0.001 - 0.004	1.5	1
Bananas	742	0			0.004 ^	0.1	2
Broccoli	185	13	7.0	0.002 - 0.006	0.001 ^	1	2
Carrots	743	1	0.1	0.024 ^	0.004 - 0.020	0.1	0.1
Cauliflower	558	1	0.2	0.002 ^	0.001 ^	1	0.05
Cranberries	316	71	22.5	0.005 - 0.093	0.004 - 0.005	1.0	-
Eggplant	740	1	0.1	0.013 ^	0.008 ^	0.1	-
Grapefruit	743	6	0.8	0.001 - 0.007	0.0008 - 0.004	1.0	1
Greens, Collard	86	4	4.7	0.007 - 0.035	0.004 ^	0.1	-
Greens, Kale	98	11	11.2	0.007 - 0.067	0.004 ^	0.1	-
Orange Juice	557	3	0.5	0.007 ^	0.004 ^	1.0	1
Peaches	90	12	13.3	0.007 - 0.054	0.004 ^	0.05	0.5
Plums (X-2)	515	88	17.1	0.005 - 0.18	0.003 - 0.008	0.05	0.5
Plums, Dried (Prunes)	224	0			0.003 - 0.008	0.05	0.5
Potatoes, Frozen	744	0			0.004 ^	0.1	2
Raisins	372	3	0.8	0.007 - 0.022	0.004 - 0.008	0.5	0.1
Spinach	511	16	3.1	0.002 - 0.093	0.001 - 0.004	0.1	-
Summer Squash	186	1	0.5	0.007 ^	0.004 ^	0.1	-
Sweet Peas, Frozen	744	0			0.004 - 0.005	0.05	0.01
Watermelon	550	0			0.004 ^	0.1	-
Winter Squash	<u>369</u>	<u>8</u>	2.2	0.007 ^	0.004 ^	0.1	-
TOTAL	9,787	239					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
Clofentezine (insecticide)							
Applesauce	730	0			0.007 - 0.022	0.5	0.5
Broccoli	169	0			0.022 - 0.093	NT	-
Cauliflower	328	0			0.022 - 0.045	NT	-
Peaches	19	0			0.007 - 0.023	1.0	0.2
Raisins	108	0			0.007 ^	1.0	1
Spinach	<u>366</u>	<u>0</u>			0.022 ^	NT	-
TOTAL	1,720	0					
Clomazone (herbicide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Orange Juice	44	0			0.008 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Summer Squash	186	0			0.008 - 0.020	0.1	-
Sweet Peas, Frozen	744	0			0.006 - 0.015	0.05	-
Watermelon	550	0			0.005 - 0.015	0.05	-
Winter Squash	<u>369</u>	<u>0</u>			0.008 - 0.040	0.1	-
TOTAL	4,056	0					
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)							
Applesauce	216	0			0.002 ^	1.0	-
Bananas	526	0			0.010 - 0.050	NT	-
Carrots	744	0			0.002 - 0.014	NT	-
Cranberries	84	0			0.002 ^	NT	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale (V-1)	61	1	1.6	0.011 ^	0.010 ^	NT	-
Peaches	90	0			0.002 - 0.003	NT	-
Potatoes, Frozen	744	22	3.0	0.003 - 0.008	0.002 - 0.003	0.05	-
Summer Squash (V-3)	54	3	5.6	0.003 ^	0.002 ^	NT	-
Sweet Peas, Frozen	524	0			0.002 - 0.010	NT	-
Watermelon (V-3)	<u>370</u>	<u>3</u>	0.8	0.003 - 0.040	0.002 - 0.010	NT	-
TOTAL	3,482	29					
Coumaphos (insecticide)							
Applesauce	528	0			0.006 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.006 ^	NT	-
TOTAL	894	0					
Coumaphos oxygen analog (metabolite of Coumaphos)							
Applesauce	528	0			0.008 ^	NT	-
Spinach	<u>306</u>	<u>0</u>			0.008 ^	NT	-
TOTAL	834	0					
Cyazofamid (fungicide)							
Potatoes, Frozen	<u>396</u>	<u>0</u>			0.001 ^	0.02	-
TOTAL	396	0					
Cycloate (herbicide)							
Applesauce	528	0			0.0006 - 0.002	NT	-
Broccoli	185	0			0.0006 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach	366	3	0.8	0.002 - 0.007	0.002 ^	0.05	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	1,898	3					
Cyfluthrin (insecticide)							
Applesauce	744	0			0.030 - 0.041	0.5	0.5
Bananas	742	0			0.023 - 0.030	0.05	-
Broccoli	185	0			0.14 ^	2.5	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Carrots	743	0			0.030 - 0.050	0.20	-
Cauliflower	558	0			0.14 ^	2.5	-
Cranberries	316	0			0.030 - 0.050	0.05	-
Eggplant	740	0			0.067 ^	0.5	-
Grapefruit	743	0			0.021 - 0.030	0.2	-
Greens, Collard	17	0			0.030 ^	7.0	-
Greens, Kale	37	0			0.030 ^	7.0	-
Orange Juice	557	0			0.030 - 0.060	0.2	-
Peaches	90	0			0.015 - 0.030	0.3	-
Plums	515	0			0.068 ^	0.3	-
Plums, Dried (Prunes)	224	0			0.068 ^	0.3	-
Potatoes, Frozen	744	0			0.015 - 0.030	0.01	-
Raisins	372	0			0.050 - 0.060	3.5	-
Spinach	511	1	0.2	0.51 ^	0.030 - 0.27	6.0	-
Summer Squash	186	0			0.030 - 0.050	0.1	-
Sweet Peas, Frozen	744	0			0.015 - 0.030	0.25	-
Watermelon	550	0			0.023 - 0.030	0.1	-
Winter Squash	<u>369</u>	<u>0</u>			0.030 ^	0.1	-
TOTAL	9,687	1					

Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide) **

Applesauce	528	0			0.006 ^	0.3	0.2
Bananas	526	0			0.015 ^	0.01	-
Broccoli	185	0			0.006 ^	0.4	-
Carrots	527	0			0.008 ^	0.01	-
Cauliflower	558	0			0.006 ^	0.4	-
Cranberries	232	0			0.015 ^	0.01	-
Grapefruit	527	0			0.008 ^	0.01	-
Greens, Collard (X-1)	69	1	1.4	0.14 ^	0.050 ^	0.01	-
Greens, Kale	61	0			0.050 ^	0.01	-
Raisins	264	0			0.050 ^	0.01	-
Spinach (X-1)	366	2	0.5	0.010 - 0.12	0.006 ^	0.01	-
Summer Squash	132	0			0.025 ^	0.01	-
Sweet Peas, Frozen	308	0			0.015 ^	0.2	-
Watermelon	369	0			0.015 ^	0.01	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	0.01	-
TOTAL	4,913	3					

Cyhalothrin, Lambda (insecticide) (includes gamma isomer)

Applesauce	216	0			0.006 ^	0.3	0.2
Bananas	216	0			0.006 ^	0.01	-
Carrots	216	0			0.006 ^	0.01	-
Cranberries	84	0			0.006 ^	0.01	-
Eggplant	740	1	0.1	0.063 ^	0.038 ^	0.20	-
Grapefruit	216	0			0.006 ^	0.01	-
Greens, Collard	17	0			0.006 ^	0.01	-
Greens, Kale (X-2)	37	2	5.4	0.027 - 0.050	0.006 ^	0.01	-
Orange Juice	557	0			0.006 - 0.060	0.01	-
Peaches	90	10	11.1	0.005 - 0.020	0.003 - 0.006	0.50	-
Plums	515	0			0.039 ^	0.50	-
Plums, Dried (Prunes)	224	0			0.039 ^	0.50	-
Potatoes, Frozen	744	0			0.003 - 0.006	0.01	0.02
Raisins	108	0			0.012 ^	0.01	-
Spinach (X-1)	145	2	1.4	0.010 - 0.14	0.006 ^	0.01	-
Summer Squash	54	0			0.006 ^	0.01	-
Sweet Peas, Frozen	436	0			0.006 - 0.012	0.2	-
Watermelon	181	0			0.006 ^	0.01	-
Winter Squash	<u>108</u>	<u>0</u>			0.006 ^	0.01	-
TOTAL	4,904	15					

Cyhalothrin, epimer R157836 (insecticide)

Applesauce	216	0			0.006 ^	0.3	0.2
Bananas	216	0			0.006 ^	0.01	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA	Codex
	Number of Samples	with Detections	% of Samples with Detections			Tolerance Level, ppm	MRL/EMRL, ppm
Carrots	216	1	0.5	0.010 ^	0.006 ^	0.01	-
Cranberries	84	0			0.006 ^	0.01	-
Eggplant	740	0			0.038 - 0.077	0.20	-
Grapefruit	216	0			0.006 ^	0.01	-
Greens, Collard	17	0			0.006 ^	0.01	-
Greens, Kale	37	0			0.006 ^	0.01	-
Orange Juice	557	0			0.006 - 0.060	0.01	-
Peaches	90	0			0.003 - 0.006	0.50	-
Plums	515	0			0.047 ^	0.50	-
Plums, Dried (Prunes)	224	0			0.047 ^	0.50	-
Potatoes, Frozen	744	0			0.003 - 0.006	0.01	0.02
Raisins	108	0			0.012 ^	0.01	-
Spinach	145	1	0.7	0.018 ^	0.006 ^	0.01	-
Summer Squash	54	0			0.006 ^	0.01	-
Sweet Peas, Frozen	436	0			0.006 - 0.012	0.2	-
Watermelon	181	0			0.006 ^	0.01	-
Winter Squash	108	0			0.006 ^	0.01	-
TOTAL	4,904	2					
Cypermethrin (insecticide)							
Applesauce	744	0			0.030 - 0.17	NT	2
Bananas	526	0			0.023 ^	NT	-
Broccoli	185	0			0.051 ^	2.0	1
Carrots	743	0			0.030 - 0.059	NT	0.05
Cauliflower	558	0			0.17 ^	2.0	1
Cranberries	316	0			0.030 - 0.18	NT	0.5
Eggplant	740	0			0.057 ^	0.2	0.2
Greens, Collard	86	8	9.3	0.083 - 2.3	0.030 - 0.075	14.0	1
Greens, Kale	98	18	18.4	0.050 - 1.3	0.030 - 0.075	14.0	1
Orange Juice	396	0			0.035 ^	NT	2
Peaches	90	0			0.015 - 0.030	1	2
Plums	515	0			0.067 ^	NT	1
Plums, Dried (Prunes)	224	0			0.067 ^	NT	1
Potatoes, Frozen	744	0			0.015 - 0.030	NT	0.05
Spinach	511	78	15.3	0.050 - 3.6	0.030 - 0.17	10.00	2
Summer Squash	186	0			0.030 - 0.066	0.2	-
Sweet Peas, Frozen	744	0			0.015 - 0.030	0.5	0.05
Watermelon	550	0			0.020 - 0.030	NT	-
Winter Squash	369	0			0.030 ^	NT	-
TOTAL	8,325	104					
Cyprodinil (fungicide)							
Applesauce	216	0			0.008 ^	0.1	0.05
Bananas	526	0			0.008 ^	NT	-
Carrots	743	0			0.008 - 0.009	0.75	-
Greens, Collard	86	0			0.008 ^	10.0	-
Greens, Kale	98	0			0.008 ^	10.0	-
Peaches	19	3	15.8	0.087 - 0.20	0.008 ^	2.0	2
Plums	515	1	0.2	0.12 ^	0.008 ^	2.0	2
Plums, Dried (Prunes)	224	5	2.2	0.013 - 0.058	0.008 ^	2.0	5
Raisins	372	7	1.9	0.027 - 0.41	0.016 - 0.050	3.0	5
Sweet Peas, Frozen	308	0			0.008 ^	NT	-
Watermelon	189	0			0.008 ^	NT	-
TOTAL	3,296	16					
Cyromazine (insect growth regulator)							
Applesauce	528	0			0.002 ^	NT	-
Broccoli	185	0			0.002 ^	1.0	-
Cauliflower	558	0			0.002 ^	10.0	-
Spinach	366	63	17.2	0.004 - 1.4	0.002 ^	7.0	-
TOTAL	1,637	63					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
DCPA (herbicide)							
Applesauce	528	0			0.0007 ^	NT	-
Bananas	526	0			0.002 ^	NT	-
Broccoli	185	86	46.5	0.001 - 0.028	0.0007 ^	5	-
Cauliflower	558	41	7.3	0.001 - 0.005	0.0007 ^	5	-
Eggplant	740	0			0.006 ^	1	-
Greens, Collard	17	13	76.5	0.005 - 0.22	0.003 ^	5	-
Greens, Kale	37	24	64.9	0.005 - 0.41	0.003 ^	5	-
Orange Juice	396	0			0.006 ^	NT	-
Peaches	71	0			0.003 ^	NT	-
Potatoes, Frozen	744	0			0.003 ^	2	-
Spinach (V-33)	367	33	9.0	0.001 - 0.043	0.0007 - 0.003	NT	-
Summer Squash	186	0			0.003 - 0.030	1	-
Sweet Peas, Frozen (V-2)	529	2	0.4	0.004 - 0.005	0.002 - 0.003	NT	-
Watermelon	550	0			0.002 - 0.008	1	-
Winter Squash	369	0			0.003 - 0.007	1	-
TOTAL	5,803	199					
DDD o,p' (metabolite of DDT)							
Applesauce	528	0			0.001 ^	0.1 AL	-
Broccoli	185	0			0.001 ^	0.5 AL	-
Cauliflower	558	0			0.001 ^	0.5 AL	-
Spinach	366	1	0.3	0.002 ^	0.001 ^	0.5 AL	-
TOTAL	1,637	1					
DDD p,p' (metabolite of DDT)							
Applesauce	729	0			0.001 - 0.004	0.1 AL	-
Bananas	526	0			0.005 ^	NT	-
Broccoli	185	0			0.001 ^	0.5 AL	-
Carrots	743	1	0.1	0.016 ^	0.004 - 0.006	3 AL	0.2
Cauliflower	542	0			0.001 ^	0.5 AL	-
Cranberries	316	0			0.004 - 0.006	NT	-
Eggplant	740	0			0.005 ^	0.1 AL	-
Grapefruit	743	0			0.004 - 0.016	0.1 AL	-
Greens, Collard	17	0			0.004 ^	0.5 AL	-
Greens, Kale	37	0			0.004 ^	0.5 AL	-
Orange Juice	557	0			0.004 - 0.008	0.1 AL	-
Peaches	90	0			0.004 ^	0.2 AL	-
Plums	515	0			0.007 ^	0.2 AL	-
Plums, Dried (Prunes)	224	0			0.007 ^	0.2 AL	-
Potatoes, Frozen	744	0			0.004 ^	1 AL	-
Raisins	372	0			0.008 - 0.030	0.05 AL	-
Spinach	511	0			0.001 - 0.004	0.5 AL	-
Summer Squash	186	0			0.004 - 0.030	0.1 AL	-
Sweet Peas, Frozen	744	0			0.004 - 0.005	NT	-
Watermelon	550	0			0.004 - 0.008	0.1 AL	-
Winter Squash	369	0			0.004 - 0.020	0.1 AL	-
TOTAL	9,440	1					
DDE p,p' (metabolite of DDT)							
Applesauce	744	0			0.002 - 0.004	0.1 AL	-
Bananas	526	0			0.005 ^	NT	-
Broccoli	185	2	1.1	0.003 ^	0.002 ^	0.5 AL	-
Carrots	743	204	27.5	0.003 - 0.12	0.003 - 0.004	3 AL	0.2
Cauliflower	542	0			0.002 ^	0.5 AL	-
Cranberries	316	0			0.003 - 0.004	NT	-
Eggplant	740	0			0.005 ^	0.1 AL	-
Grapefruit	743	0			0.004 - 0.010	0.1 AL	-
Greens, Collard	17	0			0.004 ^	0.5 AL	-
Greens, Kale	37	12	32.4	0.007 - 0.038	0.004 ^	0.5 AL	-
Orange Juice	557	0			0.004 - 0.007	0.1 AL	-
Peaches	90	1	1.1	0.007 ^	0.004 ^	0.2 AL	-
Plums	515	0			0.006 ^	0.2 AL	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Plums, Dried (Prunes)	224	0			0.006 ^	0.2 AL	-
Potatoes, Frozen	744	0			0.004 ^	1 AL	-
Raisins	372	0			0.008 - 0.030	0.05 AL	-
Spinach	511	175	34.2	0.003 - 0.045	0.002 - 0.004	0.5 AL	-
Summer Squash	186	1	0.5	0.007 ^	0.004 - 0.015	0.1 AL	-
Sweet Peas, Frozen	744	0			0.004 - 0.015	NT	-
Watermelon	550	1	0.2	0.007 ^	0.004 - 0.005	0.1 AL	-
Winter Squash	<u>369</u>	<u>2</u>	0.5	0.007 - 0.012	0.004 - 0.007	0.1 AL	-
TOTAL	9,455	398					
DDT o,p' (insecticide)							
Applesauce	528	0			0.001 ^	0.1 AL	-
Broccoli	185	0			0.001 ^	0.5 AL	-
Cauliflower	558	0			0.001 ^	0.5 AL	-
Spinach	<u>366</u>	<u>19</u>	5.2	0.002 ^	0.001 ^	0.5 AL	-
TOTAL	1,637	19					
DDT p,p' (insecticide)							
Applesauce	744	0			0.002 - 0.004	0.1 AL	-
Bananas	526	0			0.005 ^	NT	-
Broccoli	185	0			0.002 ^	0.5 AL	-
Carrots	743	4	0.5	0.007 ^	0.004 - 0.030	3 AL	0.2
Cauliflower	558	0			0.002 ^	0.5 AL	-
Cranberries	316	0			0.004 - 0.016	NT	-
Eggplant	740	0			0.007 ^	0.1 AL	-
Grapefruit	743	0			0.004 - 0.029	0.1 AL	-
Greens, Collard	17	0			0.004 ^	0.5 AL	-
Greens, Kale	37	12	32.4	0.007 ^	0.004 ^	0.5 AL	-
Orange Juice	557	0			0.004 - 0.008	0.1 AL	-
Peaches	90	0			0.004 ^	0.2 AL	-
Plums	515	0			0.010 ^	0.2 AL	-
Plums, Dried (Prunes)	224	0			0.010 ^	0.2 AL	-
Potatoes, Frozen	744	0			0.004 ^	1 AL	-
Raisins	108	0			0.008 ^	0.05 AL	-
Spinach	511	44	8.6	0.003 - 0.012	0.002 - 0.004	0.5 AL	-
Summer Squash	54	1	1.9	0.007 ^	0.004 ^	0.1 AL	-
Sweet Peas, Frozen	744	0			0.004 - 0.005	NT	-
Watermelon	370	0			0.004 - 0.005	0.1 AL	-
Winter Squash	<u>108</u>	<u>0</u>			0.004 ^	0.1 AL	-
TOTAL	8,634	61					
Deltamethrin (includes parent Tralomethrin) (insecticide)							
Applesauce	744	0			0.015 - 0.33	0.2	0.2
Bananas	742	0			0.015 - 0.023	0.05	-
Carrots	743	0			0.015 - 0.030	0.2	0.02
Cauliflower	542	0			0.080 - 0.33	0.05	0.1
Cranberries	316	0			0.015 - 0.061	0.05	-
Eggplant	740	0			0.052 ^	0.3	-
Grapefruit	743	0			0.015 - 0.055	0.05	0.02
Greens, Collard	86	0			0.015 - 0.075	0.05	2
Greens, Kale	98	0			0.015 - 0.075	0.05	2
Orange Juice	557	0			0.015 - 0.018	0.05	0.02
Peaches	90	0			0.008 - 0.015	0.05	0.05
Plums	515	0			0.052 ^	0.05	0.05
Plums, Dried (Prunes)	224	0			0.052 ^	0.05	0.05
Potatoes, Frozen	744	0			0.008 - 0.015	0.04	0.01
Raisins	372	0			0.030 - 0.050	0.05	0.2
Spinach	145	0			0.015 ^	0.05	2
Summer Squash	186	0			0.015 - 0.050	0.2	0.2
Sweet Peas, Frozen	524	0			0.015 - 0.023	0.05	0.2
Watermelon	550	1	0.2	0.025 ^	0.015 - 0.077	0.2	0.2
Winter Squash	<u>369</u>	<u>0</u>			0.015 - 0.24	0.2	0.2
TOTAL	9,030	1					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Diazinon (insecticide)							
Applesauce	744	0			0.002 ^	0.5	0.3
Bananas	742	0			0.002 - 0.005	0.2	-
Carrots	743	25	3.4	0.003 - 0.11	0.002 - 0.004	0.75	0.5
Cranberries	84	0			0.002 ^	0.5	-
Grapefruit	743	0			0.001 - 0.002	0.7	-
Greens, Collard	86	2	2.3	0.008 ^	0.002 - 0.005	0.7	0.05
Greens, Kale	98	5	5.1	0.018 - 0.14	0.002 - 0.005	0.7	0.05
Orange Juice	557	0			0.002 ^	0.7	-
Peaches	90	11	12.2	0.003 - 0.033	0.002 ^	0.7	0.2
Plums	515	2	0.4	0.012 - 0.021	0.007 ^	0.5	1
Plums, Dried (Prunes)	224	0			0.007 ^	0.5	1
Potatoes, Frozen	744	0			0.002 ^	0.1	0.01
Raisins	372	0			0.004 ^	0.75	-
Spinach	511	4	0.8	0.003 ^	0.002 ^	0.7	0.5
Summer Squash	186	0			0.002 - 0.004	0.5	0.05
Sweet Peas, Frozen	744	0			0.002 - 0.005	0.5	0.2
Watermelon	550	0			0.002 - 0.005	0.75	-
Winter Squash	<u>369</u>	<u>0</u>			0.002 - 0.007	0.75	0.05
TOTAL	8,102	49					
Diazinon oxygen analog (metabolite of Diazinon)							
Applesauce	744	0			0.003 ^	NT	-
Bananas	742	0			0.001 - 0.003	NT	-
Broccoli	155	0			0.003 ^	NT	-
Carrots	744	0			0.001 - 0.003	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Cranberries	84	0			0.003 ^	NT	-
Grapefruit	216	0			0.003 ^	NT	-
Greens, Collard	86	0			0.001 - 0.003	NT	-
Greens, Kale	98	0			0.001 - 0.003	NT	-
Orange Juice	557	0			0.003 ^	NT	-
Peaches	90	0			0.003 ^	NT	-
Plums	515	0			0.011 ^	NT	-
Plums, Dried (Prunes)	224	0			0.011 ^	NT	-
Potatoes, Frozen	744	0			0.003 ^	NT	-
Raisins	372	0			0.004 - 0.006	NT	-
Spinach (V-1)	511	1	0.2	0.005 ^	0.003 ^	NT	-
Summer Squash	186	0			0.003 - 0.004	NT	-
Sweet Peas, Frozen	744	0			0.001 - 0.010	NT	-
Watermelon	550	0			0.001 - 0.012	NT	-
Winter Squash	<u>369</u>	<u>0</u>			0.003 - 0.016	NT	-
TOTAL	8,289	1					
Dichlobenil (herbicide)							
Applesauce	744	0			0.005 - 0.019	0.5	-
Bananas	526	0			0.013 ^	NT	-
Broccoli	169	0			0.019 ^	NT	-
Cauliflower	558	0			0.019 ^	NT	-
Cranberries	84	0			0.005 ^	0.1	-
Greens, Collard	69	0			0.013 ^	NT	-
Greens, Kale	61	0			0.013 ^	NT	-
Orange Juice	396	0			0.005 ^	NT	-
Peaches	90	0			0.005 ^	0.15	-
Plums	515	0			0.011 ^	0.15	-
Plums, Dried (Prunes)	224	0			0.011 ^	0.15	-
Raisins	372	0			0.010 - 0.030	0.15	-
Spinach	366	0			0.019 ^	NT	-
Sweet Peas, Frozen	308	0			0.013 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.013 ^	NT	-
TOTAL	4,671	0					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)							
Applesauce	744	0			0.002 - 0.003	0.5	-
Bananas	720	0			0.002 ^	0.5	-
Cranberries	84	0			0.002 ^	0.5	-
Eggplant	740	0			0.004 ^	0.5	-
Grapefruit	743	0			0.0006 - 0.002	3	-
Greens, Collard	86	0			0.002 - 0.050	3	-
Greens, Kale	98	0			0.002 - 0.050	3	-
Orange Juice	557	0			0.002 ^	3	-
Peaches	90	0			0.002 ^	0.5	-
Plums	515	0			0.004 ^	0.5	-
Plums, Dried (Prunes)	224	0			0.004 ^	0.5	-
Potatoes, Frozen	744	0			0.002 ^	0.5	-
Raisins	372	0			0.003 - 0.004	0.5	-
Spinach	511	0			0.002 - 0.003	3	-
Summer Squash	186	0			0.002 - 0.003	0.5	-
Sweet Peas, Frozen	744	0			0.002 - 0.006	0.5	-
Watermelon	550	0			0.002 - 0.003	0.5	-
Winter Squash	<u>369</u>	<u>0</u>			0.002 - 0.003	0.5	-
TOTAL	8,077	0					
Dicloran (fungicide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	526	0			0.004 ^	NT	-
Broccoli (V-5)	185	5	2.7	0.003 ^	0.002 ^	NT	-
Carrots	743	0			0.006 - 0.025	10	15
Cauliflower	558	0			0.002 ^	NT	-
Cranberries	232	0			0.050 ^	NT	-
Greens, Collard	56	0			0.013 ^	NT	-
Greens, Kale (V-2)	53	2	3.8	0.010 - 0.020	0.006 - 0.013	NT	-
Orange Juice	396	0			0.008 ^	NT	-
Peaches	90	3	3.3	0.63 - 2.3	0.006 ^	20	7
Plums	515	8	1.6	0.017 - 0.32	0.010 ^	15	-
Plums, Dried (Prunes)	224	1	0.4	0.037 ^	0.010 ^	15	-
Potatoes, Frozen	744	0			0.006 ^	0.25	-
Raisins	372	0			0.012 - 0.030	10	7
Spinach (V-12)	366	12	3.3	0.003 - 0.010	0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.002 - 0.004	NT	-
Watermelon	189	0			0.004 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.010 ^	NT	-
TOTAL	6,566	31					
Dicofol o,p' (insecticide)							
Applesauce	528	0			0.003 ^	5	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Cranberries	232	0			0.049 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.003 ^	NT	-
TOTAL	1,869	0					
Dicofol p,p' (insecticide) (isomer of Dicofol o,p')							
Applesauce	744	0			0.003 - 0.010	5	-
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Cranberries	232	0			0.30 ^	NT	-
Eggplant	740	1	0.1	0.095 ^	0.010 ^	5	-
Grapefruit	743	0			0.010 - 0.022	10	5
Orange Juice	557	0			0.010 ^	10	5
Peaches	90	0			0.010 ^	10	5
Plums	515	4	0.8	0.040 ^	0.024 ^	5	1
Plums, Dried (Prunes)	224	0			0.024 ^	5	1
Raisins	372	3	0.8	0.22 - 0.60	0.020 - 0.050	5	5

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Spinach	366	0			0.003 ^	NT	-
Summer Squash	186	0			0.010 - 0.030	5	1
Sweet Peas, Frozen	220	0			0.009 ^	NT	-
Watermelon	550	0			0.010 - 0.015	5	-
Winter Squash	<u>369</u>	<u>0</u>			0.010 - 0.018	5	1
TOTAL	7,177	8					
Dieldrin (insecticide) (also a metabolite of Aldrin)							
Applesauce	744	0			0.003 - 0.005	0.03 AL	0.05
Bananas	742	0			0.003 - 0.005	0.02 AL	-
Broccoli	185	0			0.005 ^	0.03 AL	-
Carrots	743	1	0.1	0.014 ^	0.003 - 0.015	0.1 AL	0.1
Cauliflower	558	0			0.005 ^	0.03 AL	-
Cranberries	316	0			0.003 - 0.030	NT	-
Eggplant	740	0			0.004 ^	0.05 AL	-
Grapefruit	743	0			0.003 - 0.004	0.02 AL	0.05
Greens, Collard	17	0			0.003 ^	0.05 AL	0.05
Greens, Kale	37	0			0.003 ^	0.05 AL	0.05
Orange Juice	557	0			0.003 - 0.006	0.02 AL	0.05
Peaches	90	0			0.003 ^	0.02 AL	-
Plums	515	0			0.005 ^	0.3 AL	-
Plums, Dried (Prunes)	224	0			0.005 ^	0.3 AL	-
Potatoes, Frozen	744	3	0.4	0.005 ^	0.003 ^	0.1 AL	0.1
Spinach	511	1	0.2	0.005 ^	0.003 - 0.005	0.05 AL	0.05
Summer Squash	186	17	9.1	0.005 - 0.045	0.003 ^	0.1 AL	0.1
Sweet Peas, Frozen	744	0			0.003 - 0.015	0.03 AL	0.05
Watermelon	550	0			0.003 - 0.005	0.1 AL	0.1
Winter Squash	<u>369</u>	<u>6</u>	1.6	0.005 - 0.055	0.003 - 0.018	0.1 AL	0.1
TOTAL	9,315	28					
Difenoconazole (fungicide)							
Bananas	526	0			0.005 ^	0.2	-
Sweet Peas, Frozen	286	0			0.005 ^	NT	-
Watermelon	189	0			0.005 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.072 ^	NT	-
TOTAL	1,262	0					
Diflubenzuron (insecticide)							
Applesauce (V-24)	528	24	4.5	0.011 ^	0.007 ^	NT	5
Broccoli	169	0			0.007 ^	NT	-
Cauliflower	558	0			0.007 ^	NT	-
Grapefruit	216	0			0.007 ^	0.5	0.5
Orange Juice	557	0			0.001 - 0.010	0.5	0.5
Peaches	90	0			0.001 - 0.007	0.07	-
Potatoes, Frozen	176	0			0.001 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.007 ^	NT	-
TOTAL	2,660	24					
Dimethenamid (herbicide)							
Potatoes, Frozen	528	0			0.001 ^	0.01	0.01
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	789	0					
Dimethoate (insecticide) (parent of Omethoate)							
Applesauce	744	3	0.4	0.004 ^	0.002 ^	2	-
Bananas	526	0			0.005 ^	NT	-
Broccoli	155	1	0.6	0.013 ^	0.008 ^	2	-
Cauliflower	558	17	3.0	0.004 - 0.067	0.002 ^	2	2
Grapefruit	743	0			0.002 - 0.003	2	5
Greens, Collard	86	0			0.002 - 0.005	2	-
Greens, Kale	98	0			0.002 - 0.005	2	-
Orange Juice	557	1	0.2	0.003 ^	0.002 ^	2	5

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Potatoes, Frozen	744	2	0.3	0.003 ^	0.002 ^	0.2	0.05
Raisins	372	0			0.004 - 0.005	1	-
Spinach	511	14	2.7	0.003 - 1.0	0.002 ^	2	-
Summer Squash	54	0			0.002 ^	NT	-
Sweet Peas, Frozen	744	90	12.1	0.003 - 0.064	0.002 - 0.005	2	1
Watermelon	550	10	1.8	0.003 - 0.21	0.002 - 0.005	1	-
Winter Squash	<u>261</u>	<u>0</u>			0.007 ^	NT	-
TOTAL	6,703	138					
Dimethomorph (fungicide)							
Applesauce	528	0			0.002 ^	NT	-
Broccoli	185	3	1.6	0.003 ^	0.002 ^	2.0	-
Cauliflower	558	0			0.002 ^	NT	-
Eggplant	740	0			0.084 ^	1.5	-
Greens, Collard	17	1	5.9	0.003 ^	0.002 ^	20.0	-
Greens, Kale	37	4	10.8	0.015 - 0.039	0.002 ^	20.0	-
Orange Juice	44	0			0.030 ^	NT	-
Potatoes, Frozen	744	0			0.001 - 0.002	0.05	-
Raisins	372	0			0.002 - 0.10	6.0	-
Spinach (V-8)	366	8	2.2	0.003 - 0.010	0.002 ^	NT	-
Summer Squash	186	0			0.002 - 0.10	0.5	-
Watermelon	<u>361</u>	<u>0</u>			0.002 - 0.040	0.5	-
TOTAL	4,138	16					
Dinotefuran (insecticide)							
Applesauce	176	0			0.006 ^	NT	-
Broccoli	185	3	1.6	0.021 - 0.037	0.006 ^	1.4	-
Cauliflower	46	0			0.006 ^	1.4	-
Greens, Collard (V-5)	69	5	7.2	0.017 - 0.29	0.010 ^	NT	-
Greens, Kale (V-1)	61	1	1.6	0.45 ^	0.010 ^	NT	-
Potatoes, Frozen	744	0			0.001 - 0.005	0.05	-
Raisins	108	0			0.005 ^	2.5	-
Spinach	163	0			0.005 - 0.006	5.0	-
Summer Squash	54	0			0.005 ^	0.5	-
Watermelon	<u>181</u>	<u>0</u>			0.0005 - 0.005	0.5	-
TOTAL	1,787	9					
Diphenamid (herbicide)							
Applesauce	528	0			0.010 ^	NT	-
Broccoli	185	0			0.010 ^	NT	-
Cauliflower	558	0			0.010 ^	NT	-
Orange Juice	44	0			0.006 ^	NT	-
Spinach	366	0			0.010 ^	NT	-
Sweet Peas, Frozen	220	0			0.015 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.018 ^	NT	-
TOTAL	2,162	0					
Diphenylamine - DPA (fungicide)							
Applesauce	744	225	30.2	0.005 - 0.16	0.003 - 0.010	10	10
Bananas (V-1)	526	1	0.2	0.10 ^	0.015 ^	NT	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Greens, Collard	69	0			0.015 ^	NT	-
Greens, Kale	61	0			0.015 ^	NT	-
Orange Juice	44	0			0.010 ^	NT	-
Spinach	366	0			0.003 ^	NT	-
Sweet Peas, Frozen	528	0			0.015 - 0.030	NT	-
Watermelon	189	0			0.015 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.008 ^	NT	-
TOTAL	3,531	226					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Disulfoton (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	526	0			0.004 ^	NT	-
Broccoli	155	0			0.002 ^	0.75	0.5
Cauliflower	558	1	0.2	0.004 ^	0.002 ^	0.75	0.5
Potatoes, Frozen	744	0			0.003 ^	0.75	0.5
Spinach	511	0			0.002 - 0.003	0.75	0.5
Sweet Peas, Frozen	744	0			0.003 - 0.006	0.75	0.1
Watermelon	189	0			0.004 ^	NT	-
Winter Squash	261	0			0.007 ^	NT	0.5
TOTAL	4,216	1					
Disulfoton sulfone (metabolite of Disulfoton)							
Applesauce	528	0			0.006 ^	NT	-
Bananas	526	0			0.004 ^	NT	-
Broccoli	185	0			0.006 ^	0.75	0.5
Cauliflower	558	1	0.2	0.010 ^	0.006 ^	0.75	0.5
Potatoes, Frozen	744	0			0.004 ^	0.75	0.5
Spinach	511	0			0.004 - 0.006	0.75	0.5
Sweet Peas, Frozen	744	0			0.004 - 0.010	0.75	0.1
Watermelon	189	0			0.004 ^	NT	-
Winter Squash	261	0			0.009 ^	NT	0.5
TOTAL	4,246	1					
Diuron (herbicide)							
Applesauce	744	0			0.008 - 0.012	1	-
Bananas	216	0			0.012 ^	0.1	-
Broccoli	185	0			0.008 ^	NT	-
Cauliflower	558	0			0.008 ^	NT	-
Grapefruit	216	0			0.012 ^	1	-
Orange Juice	557	0			0.001 - 0.012	1	-
Peaches	90	0			0.001 - 0.012	0.1	-
Potatoes, Frozen	744	0			0.001 - 0.012	1	-
Raisins	108	0			0.012 ^	1	-
Spinach	366	0			0.008 ^	NT	-
Sweet Peas, Frozen	216	0			0.012 ^	1	-
TOTAL	4,000	0					
Endosulfan I (insecticide)							
Applesauce	743	0			0.003 - 0.006	2.0	1
Bananas	526	0			0.002 ^	NT	-
Broccoli	185	5	2.7	0.010 - 0.044	0.006 ^	3.0	0.5
Carrots	743	0			0.003 - 0.025	0.2	0.2
Cauliflower	558	0			0.006 ^	2.0	0.5
Cranberries	232	0			0.026 ^	NT	-
Eggplant	740	21	2.8	0.007 - 0.14	0.004 ^	1.0	-
Greens, Collard	17	0			0.003 ^	2.0	1
Greens, Kale	37	0			0.003 ^	2.0	1
Orange Juice	396	0			0.005 ^	NT	0.5
Peaches	90	3	3.3	0.005 - 0.032	0.003 ^	2.0	1
Plums	515	2	0.4	0.007 - 0.059	0.004 ^	2.0	1
Plums, Dried (Prunes)	224	0			0.004 ^	2.0	1
Potatoes, Frozen	744	0			0.003 ^	0.2	0.2
Raisins	372	0			0.003 - 0.006	2.0	1
Spinach	511	3	0.6	0.005 - 0.010	0.003 - 0.006	2.0	2
Summer Squash	186	118	63.4	0.005 - 0.32	0.003 ^	1.0	0.5
Sweet Peas, Frozen	744	0			0.002 - 0.025	2.0	0.5
Watermelon	519	0			0.002 - 0.007	2.0	-
Winter Squash	369	10	2.7	0.005 - 0.030	0.003 - 0.007	1.0	0.5
TOTAL	8,451	162					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Endosulfan II (isomer of Endosulfan)							
Applesauce	744	0			0.004 - 0.006	2.0	1
Bananas	526	0			0.004 ^	NT	-
Broccoli	185	2	1.1	0.010 ^	0.006 ^	3.0	0.5
Carrots	743	2	0.3	0.007 ^	0.004 - 0.030	0.2	0.2
Cauliflower	558	0			0.006 ^	2.0	0.5
Cranberries	232	0			0.030 ^	NT	-
Eggplant	740	101	13.6	0.007 - 0.11	0.004 ^	1.0	-
Greens, Collard	17	0			0.004 ^	2.0	1
Greens, Kale	37	0			0.004 ^	2.0	1
Orange Juice	396	0			0.006 ^	NT	0.5
Peaches	90	5	5.6	0.007 - 0.072	0.004 ^	2.0	1
Plums	515	2	0.4	0.023 - 0.070	0.004 ^	2.0	1
Plums, Dried (Prunes)	224	2	0.9	0.007 ^	0.004 ^	2.0	1
Potatoes, Frozen	744	0			0.004 ^	0.2	0.2
Raisins	372	0			0.003 - 0.008	2.0	1
Spinach	511	6	1.2	0.007 - 0.027	0.004 - 0.006	2.0	2
Summer Squash	186	51	27.4	0.005 - 0.029	0.003 - 0.004	1.0	0.5
Sweet Peas, Frozen	744	0			0.004 - 0.025	2.0	0.5
Watermelon	519	0			0.003 - 0.007	2.0	-
Winter Squash	<u>369</u>	<u>6</u>	1.6	0.007 - 0.033	0.004 - 0.007	1.0	0.5
TOTAL	8,452	177					
Endosulfan sulfate (metabolite of Endosulfan)							
Applesauce	744	0			0.004 - 0.020	2.0	1
Bananas	526	0			0.004 ^	NT	-
Broccoli	171	0			0.020 ^	3.0	0.5
Carrots	743	2	0.3	0.010 ^	0.004 - 0.009	0.2	0.2
Cauliflower	558	0			0.020 ^	2.0	0.5
Cranberries	232	0			0.019 ^	NT	-
Eggplant	740	129	17.4	0.010 - 0.21	0.006 ^	1.0	-
Greens, Collard	77	3	3.9	0.024 - 1.6	0.004 - 0.015	2.0	1
Greens, Kale	85	1	1.2	0.007 ^	0.004 - 0.015	2.0	1
Orange Juice	396	0			0.006 ^	NT	0.5
Peaches	90	7	7.8	0.007 - 0.032	0.004 ^	2.0	1
Plums	515	2	0.4	0.074 - 0.23	0.006 ^	2.0	1
Plums, Dried (Prunes)	224	2	0.9	0.010 ^	0.006 ^	2.0	1
Potatoes, Frozen	744	31	4.2	0.007 - 0.014	0.004 ^	0.2	0.2
Raisins	372	0			0.003 - 0.008	2.0	1
Spinach	511	25	4.9	0.007 - 0.81	0.004 - 0.020	2.0	2
Summer Squash	186	155	83.3	0.005 - 0.16	0.003 - 0.004	1.0	0.5
Sweet Peas, Frozen	744	0			0.004 - 0.025	2.0	0.5
Watermelon	519	11	2.1	0.005 - 0.016	0.003 - 0.007	2.0	-
Winter Squash	<u>369</u>	<u>108</u>	29.3	0.007 - 0.077	0.004 - 0.007	1.0	0.5
TOTAL	8,546	476					
Endrin (insecticide)							
Applesauce	528	0			0.007 ^	NT	-
Bananas	526	0			0.002 ^	NT	-
Broccoli	185	0			0.007 ^	0.05 AL	-
Carrots	743	0			0.004 - 0.015	0.05 AL	-
Cauliflower	558	0			0.007 ^	0.05 AL	-
Eggplant	740	0			0.004 ^	0.05 AL	-
Greens, Collard	17	0			0.004 ^	0.05 AL	-
Greens, Kale	37	1	2.7	0.007 ^	0.004 ^	0.05 AL	-
Peaches	71	0			0.004 ^	NT	-
Potatoes, Frozen	744	0			0.004 ^	0.05 AL	-
Spinach	511	0			0.004 - 0.007	0.05 AL	-
Summer Squash	186	1	0.5	0.020 ^	0.004 ^	0.05 AL	0.05
Sweet Peas, Frozen	744	0			0.002 - 0.015	0.05 AL	-
Watermelon	550	0			0.002 - 0.004	0.05 AL	0.05
Winter Squash	<u>369</u>	<u>0</u>			0.004 - 0.040	0.05 AL	0.05
TOTAL	6,509	2					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
EPTC (herbicide)							
Applesauce	528	0			0.064 ^	NT	-
Broccoli	185	0			0.064 ^	0.1	-
Carrots	528	0			0.008 ^	0.1	-
Cauliflower	558	0			0.064 ^	0.1	-
Eggplant	740	0			0.016 ^	0.1	-
Orange Juice	353	0			0.020 ^	0.1	-
Potatoes, Frozen	528	0			0.020 ^	0.1	-
Spinach	<u>366</u>	<u>0</u>			0.064 ^	0.1	-
TOTAL	3,786	0					
Esfenvalerate (insecticide) (isomer of Fenvalerate)							
Eggplant	740	0			0.054 ^	0.05	-
Plums	515	0			0.060 ^	0.05	-
Plums, Dried (Prunes)	<u>224</u>	<u>0</u>			0.060 ^	0.05	-
TOTAL	1,479	0					
Esfenvalerate+Fenvalerate Total (insecticide)							
Applesauce	744	0			0.015 - 0.029	2.0	2
Bananas	742	0			0.015 - 0.038	0.1	-
Broccoli	185	0			0.009 - 0.058	2.0	2
Carrots	743	0			0.015 - 0.025	0.5	0.05
Cauliflower	542	0			0.029 - 0.12	0.5	2
Cranberries	316	0			0.015 - 0.050	0.05	1
Grapefruit	743	0			0.013 - 0.015	0.05	2
Greens, Collard	86	0			0.015 - 0.13	10.0	10
Greens, Kale	98	0			0.015 - 0.13	0.05	10
Orange Juice	557	0			0.015 - 0.051	0.05	2
Peaches	90	11	12.2	0.013 - 0.077	0.008 - 0.015	10.0	5
Potatoes, Frozen	744	0			0.008 - 0.015	0.05	0.05
Raisins	372	0			0.030 - 0.050	0.05	1
Spinach	511	0			0.015 - 0.12	0.05	-
Summer Squash	186	0			0.015 - 0.050	0.5	0.5
Sweet Peas, Frozen	744	0			0.015 - 0.038	1.0	0.1
Watermelon	370	0			0.015 - 0.038	1.0	0.5
Winter Squash	<u>369</u>	<u>0</u>			0.015 - 0.042	1.0	0.5
TOTAL	8,142	11					
Ethalfuralin (herbicide)							
Applesauce	513	0			0.017 ^	NT	-
Broccoli	171	0			0.017 ^	NT	-
Cauliflower	541	0			0.017 ^	NT	-
Orange Juice	396	0			0.015 ^	NT	-
Peaches	71	0			0.008 ^	NT	-
Spinach	352	0			0.017 ^	NT	-
Summer Squash	186	0			0.007 - 0.050	0.05	-
Sweet Peas, Frozen	216	0			0.007 ^	NT	-
Watermelon	361	0			0.007 - 0.015	0.05	-
Winter Squash	<u>369</u>	<u>0</u>			0.007 - 0.040	0.05	-
TOTAL	3,176	0					
Ethiofencarb (insecticide)							
Applesauce	528	0			0.015 ^	NT	-
Bananas	526	0			0.010 ^	NT	-
Broccoli	169	0			0.015 ^	NT	-
Cauliflower	558	0			0.015 ^	NT	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Spinach	351	0			0.015 ^	NT	-
Sweet Peas, Frozen	286	0			0.010 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.010 ^	NT	-
TOTAL	2,737	0					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
Ethion (insecticide)							
Applesauce	528	0			0.001 ^	NT	-
Bananas	526	0			0.005 ^	NT	-
Broccoli	185	0			0.001 ^	NT	-
Cauliflower	558	0			0.001 ^	NT	-
Grapefruit	743	0			0.0007 - 0.002	10	-
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale	61	0			0.005 ^	NT	-
Orange Juice	557	0			0.002 - 0.005	5.0	-
Potatoes, Frozen (V-1)	1	1	100.0	0.008 ^	0.005 ^	NT	-
Spinach	366	0			0.001 ^	NT	-
Sweet Peas, Frozen	528	0			0.005 ^	NT	-
Watermelon	189	0			0.005 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.004 ^	NT	-
TOTAL	4,572	1					
Ethion di oxon (metabolite of Ethion)							
Grapefruit	743	0			0.002 - 0.006	10	-
Orange Juice	<u>557</u>	<u>0</u>			0.003 - 0.005	5.0	-
TOTAL	1,300	0					
Ethion mono oxon (metabolite of Ethion)							
Applesauce	528	0			0.002 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Grapefruit	743	0			0.0007 - 0.002	10	-
Orange Juice	557	0			0.002 ^	5.0	-
Spinach	<u>366</u>	<u>0</u>			0.002 ^	NT	-
TOTAL	2,937	0					
Ethoprop (insecticide)							
Applesauce	528	0			0.0009 ^	NT	-
Bananas	216	0			0.002 ^	0.02	0.02
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	396	0			0.002 ^	NT	-
Potatoes, Frozen	744	0			0.002 ^	0.02	0.05
Spinach	366	0			0.0009 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	2,641	0					
Etoxazole (acaricide)							
Applesauce	528	0			0.0001 - 0.0002	0.20	-
Broccoli	185	0			0.0001 ^	NT	-
Cauliflower	558	0			0.0001 - 0.0002	NT	-
Raisins	264	0			0.050 ^	1.5	-
Spinach (V-2)	<u>366</u>	<u>2</u>	0.5	0.0002 ^	0.0001 ^	NT	-
TOTAL	1,901	2					
Etridiazole (fungicide)							
Bananas	526	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.002 - 0.003	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.002 ^	NT	-
TOTAL	1,243	0					
Famoxadone (fungicide)							
Eggplant	740	0			0.051 ^	4.0	-
Potatoes, Frozen	216	0			0.002 ^	0.02	0.02
Raisins	372	0			0.002 - 0.050	4.0	5
Summer Squash	186	0			0.002 - 0.050	0.30	0.2
Watermelon	361	0			0.002 - 0.030	0.30	-
Winter Squash	<u>369</u>	<u>2</u>	0.5	0.003 ^	0.002 - 0.13	0.30	0.2
TOTAL	2,244	2					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Fenamidone (fungicide)							
Potatoes, Frozen	216	0			0.003 ^	0.02	-
Raisins	372	0			0.003 - 0.030	1.0	-
Summer Squash	186	0			0.003 - 0.015	0.15	-
Watermelon	<u>361</u>	<u>0</u>			0.003 - 0.004	0.15	-
TOTAL	1,135	0					
Fenamiphos (insecticide)							
Applesauce	744	0			0.002 - 0.004	0.25	0.05
Bananas	742	0			0.004 - 0.005	0.10	0.05
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Eggplant	740	0			0.007 ^	0.1	-
Grapefruit	743	0			0.001 - 0.004	0.60	-
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale	61	0			0.005 ^	NT	-
Orange Juice	557	0			0.004 ^	0.60	-
Peaches	90	0			0.004 ^	0.25	-
Raisins	372	0			0.004 - 0.008	0.3	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	220	0			0.008 ^	NT	-
Watermelon	189	0			0.005 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.006 ^	NT	-
TOTAL	5,897	0					
Fenamiphos sulfone (metabolite of Fenamiphos)							
Applesauce	744	0			0.002 - 0.004	0.25	0.05
Bananas	742	0			0.002 - 0.005	0.10	0.05
Eggplant	740	0			0.016 ^	0.1	-
Grapefruit	216	0			0.002 ^	0.60	-
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale	61	0			0.005 ^	NT	-
Orange Juice	557	0			0.002 - 0.008	0.60	-
Peaches	90	0			0.002 - 0.008	0.25	-
Raisins	372	0			0.002 - 0.004	0.3	-
Spinach	351	0			0.004 ^	NT	-
Sweet Peas, Frozen	528	0			0.005 - 0.012	NT	-
Watermelon	189	0			0.005 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.024 ^	NT	-
TOTAL	4,920	0					
Fenamiphos sulfoxide (metabolite of Fenamiphos)							
Applesauce	744	0			0.002 - 0.004	0.25	0.05
Bananas	742	0			0.002 - 0.005	0.10	0.05
Eggplant	740	0			0.044 ^	0.1	-
Grapefruit	216	0			0.002 ^	0.60	-
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale	61	0			0.005 ^	NT	-
Orange Juice	557	0			0.002 - 0.012	0.60	-
Peaches	90	0			0.002 - 0.006	0.25	-
Raisins	108	0			0.002 ^	0.3	-
Spinach	366	0			0.004 ^	NT	-
Sweet Peas, Frozen	308	0			0.005 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.005 ^	NT	-
TOTAL	4,190	0					
Fenarimol (fungicide)							
Applesauce	744	0			0.010 - 0.015	0.1	0.3
Bananas	742	0			0.015 - 0.025	0.5	0.2
Broccoli	185	0			0.010 ^	NT	-
Cauliflower	558	0			0.010 ^	NT	-
Raisins	108	0			0.030 ^	0.6	0.2

Pesticide / Commodity	Number of Samples	Samples		Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
		with Detections	% of Samples with Detections				
Spinach	366	0			0.010 ^	NT	-
Sweet Peas, Frozen	308	0			0.025 ^	NT	-
Watermelon	189	0			0.025 ^	NT	-
TOTAL	3,200	0					
Fenbuconazole (fungicide)							
Applesauce	528	0			0.0009 ^	NT	0.1
Bananas	742	0			0.005 - 0.050	0.3	0.05
Broccoli	185	0			0.0009 ^	NT	-
Cauliflower	558	0			0.0009 ^	NT	-
Grapefruit	743	4	0.5	0.0007 ^	0.0004 - 0.030	0.5	-
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale	61	0			0.005 ^	NT	-
Orange Juice	205	0			0.030 ^	NT	-
Peaches	19	1	5.3	0.050 ^	0.030 ^	1.0	0.5
Spinach	366	0			0.0009 ^	NT	-
Watermelon	189	0			0.005 ^	NT	-
TOTAL	3,665	5					
Fenhexamid (fungicide)							
Plums	515	40	7.8	0.032 - 0.59	0.019 ^	2.5	1
Plums, Dried (Prunes)	224	0			0.019 ^	2.5	1
TOTAL	739	40					
Fenitrothion (insecticide)							
Applesauce	528	0			0.003 ^	NT	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Spinach	366	0			0.003 ^	NT	-
TOTAL	1,637	0					
Fenprothrin (insecticide)							
Applesauce	744	0			0.016 - 0.020	5.0	5
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.016 ^	3.0	-
Cauliflower	558	0			0.016 ^	3.0	-
Eggplant	740	1	0.1	0.037 ^	0.022 ^	1.0	0.2
Grapefruit	743	0			0.007 - 0.020	2.0	-
Greens, Collard	17	0			0.020 ^	NT	-
Greens, Kale	37	0			0.020 ^	NT	-
Orange Juice	557	0			0.020 ^	2.0	-
Raisins	372	14	3.8	0.067 - 0.39	0.040 - 0.050	10.0	5
Spinach	366	0			0.016 ^	NT	-
Summer Squash	186	1	0.5	0.033 ^	0.020 - 0.050	0.5	-
Sweet Peas, Frozen	308	0			0.015 ^	0.02	-
Watermelon	550	0			0.015 - 0.020	0.5	-
Winter Squash	369	0			0.016 - 0.020	0.5	-
TOTAL	6,258	16					
Fenpyroximate (acaricide)							
Applesauce	528	1	0.2	0.001 ^	0.0006 ^	0.40	-
Broccoli	185	0			0.0006 ^	NT	-
Cauliflower	558	0			0.0006 ^	NT	-
Raisins	264	0			0.050 ^	1.0	-
Spinach	366	0			0.0006 ^	NT	-
TOTAL	1,901	1					
Fenthion (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas (V-1)	526	1	0.2	0.012 ^	0.008 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Greens, Collard	69	0			0.008 ^	NT	-
Greens, Kale	61	0			0.008 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.008 - 0.010	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.008 ^	NT	-
TOTAL	3,010	1					
Fenvalerate (insecticide) (isomer of Esfenvalerate)							
Watermelon	<u>180</u>	<u>0</u>			0.030 ^	1.0	-
TOTAL	180	0					
Flonicamid (insecticide)							
Summer Squash	<u>132</u>	<u>1</u>	0.8	0.045 ^	0.040 ^	0.40	-
TOTAL	132	1					
Fluazifop butyl (herbicide)							
Applesauce	528	0			0.0003 ^	NT	-
Broccoli	185	0			0.0003 ^	NT	-
Cauliflower	558	0			0.0003 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.0003 ^	6	-
TOTAL	1,637	0					
Fludioxonil (fungicide)							
Applesauce	743	0			0.002 - 0.040	5.0	-
Bananas	460	0			0.010 ^	NT	-
Broccoli	169	0			0.012 - 0.17	2.0	0.7
Carrots	546	0			0.002 - 0.003	0.75	0.7
Cauliflower	542	0			0.040 ^	2.0	-
Cranberries	84	0			0.002 ^	NT	-
Eggplant	740	0			0.13 ^	0.01	0.3
Greens, Collard	86	0			0.002 - 0.010	10	-
Greens, Kale	98	0			0.002 - 0.010	10	-
Orange Juice	44	0			0.015 ^	10	7
Peaches	90	48	53.3	0.025 - 2.0	0.002 - 0.015	5.0	5
Plums	515	97	18.8	0.18 - 1.8	0.11 ^	5.0	5
Plums, Dried (Prunes)	224	0			0.11 ^	5.0	5
Potatoes, Frozen	744	0			0.002 - 0.015	0.02	0.02
Raisins	372	1	0.3	0.13 ^	0.002 - 0.050	1.0	2
Spinach	366	0			0.040 ^	0.01	-
Summer Squash	186	0			0.002 - 0.050	0.01	0.3
Sweet Peas, Frozen	700	0			0.002 - 0.025	0.01	0.3
Watermelon	529	0			0.002 - 0.030	0.03	-
Winter Squash	<u>369</u>	<u>0</u>			0.002 - 0.036	0.01	0.3
TOTAL	7,607	146					
Flumioxazin (herbicide)							
Eggplant	<u>740</u>	<u>0</u>			0.050 ^	NT	-
TOTAL	740	0					
Fluridone (herbicide)							
Applesauce	216	0			0.001 - 0.002	0.1	-
Carrots	744	0			0.0003 - 0.002	0.1	-
Grapefruit	655	0			0.001 - 0.004	0.1	-
Greens, Collard	86	0			0.001 - 0.010	0.1	-
Greens, Kale	98	0			0.001 - 0.010	0.1	-
Orange Juice	557	0			0.001 - 0.036	0.1	-
Peaches	90	0			0.001 - 0.036	0.1	-
Potatoes, Frozen	744	0			0.001 - 0.036	0.1	-
Raisins	372	0			0.001 - 0.050	NT	-
Spinach	145	0			0.001 ^	0.1	-
Summer Squash	186	0			0.001 - 0.050	0.1	-
Sweet Peas, Frozen	216	0			0.001 ^	0.1	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Watermelon	361	0			0.001 - 0.016	0.1	-
Winter Squash	<u>369</u>	<u>0</u>			0.001 - 0.016	0.1	-
TOTAL	4,839	0					
Flutolanil (fungicide)							
Potatoes, Frozen	<u>528</u>	<u>4</u>	0.8	0.002 - 0.004	0.001 ^	0.20	-
TOTAL	528	4					
Folpet (fungicide)							
Applesauce	216	0			0.015 ^	25	10
Bananas	526	0			0.015 ^	NT	-
Cranberries	271	0			0.015 - 0.059	25	-
Orange Juice	396	0			0.012 ^	NT	-
Peaches	71	0			0.015 ^	NT	-
Raisins	372	0			0.008 - 0.030	25	40
Watermelon	<u>550</u>	<u>0</u>			0.008 - 0.015	15	-
TOTAL	2,402	0					
Fonofos (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas (V-1)	742	1	0.1	0.008 ^	0.002 - 0.005	NT	-
Broccoli	155	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale	61	0			0.005 ^	NT	-
Potatoes, Frozen	744	0			0.002 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	308	0			0.005 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.005 ^	NT	-
TOTAL	3,720	1					
Forchlorfenuron (plant growth regulator)							
Applesauce	352	0			0.0001 - 0.0002	0.01	-
Spinach	<u>29</u>	<u>0</u>			0.0005 ^	NT	-
TOTAL	381	0					
Halosulfuron methyl (herbicide)							
Summer Squash	54	0			0.001 ^	0.5	-
Watermelon	181	0			0.001 ^	0.1	-
Winter Squash	108	0			0.001 ^	0.5	-
TOTAL	343	0					
Heptachlor (insecticide)							
Applesauce	528	0			0.002 ^	0.05 AL	-
Bananas	526	0			0.0008 - 0.003	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	0.05 AL	-
Cranberries	316	0			0.003 - 0.035	NT	-
Eggplant	740	0			0.004 ^	0.03 AL	-
Grapefruit	743	0			0.003 - 0.004	0.05 AL	0.01
Greens, Collard	17	0			0.003 ^	0.05 AL	-
Greens, Kale	37	0			0.003 ^	0.05 AL	-
Orange Juice	557	0			0.003 - 0.006	0.05 AL	0.01
Peaches	90	0			0.003 ^	0.05 AL	-
Plums	515	0			0.004 ^	0.05 AL	-
Plums, Dried (Prunes)	224	0			0.004 ^	0.05 AL	-
Spinach	511	0			0.002 - 0.003	0.05 AL	-
Summer Squash	186	0			0.002 - 0.003	0.05 AL	-
Sweet Peas, Frozen	528	0			0.0008 - 0.002	NT	-
Watermelon	550	0			0.0008 - 0.003	0.05 AL	-
Winter Squash	<u>369</u>	<u>0</u>			0.003 - 0.004	0.05 AL	-
TOTAL	7,180	0					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Heptachlor epoxide (metabolite of Heptachlor)							
Applesauce	527	0			0.004 ^	0.05 AL	-
Bananas	526	0			0.002 - 0.005	NT	-
Broccoli	185	0			0.004 ^	NT	-
Cauliflower	542	0			0.004 ^	0.05 AL	-
Cranberries	316	0			0.004 - 0.010	NT	-
Grapefruit	743	0			0.004 ^	0.05 AL	0.01
Greens, Collard	17	0			0.004 ^	0.05 AL	-
Greens, Kale	37	0			0.004 ^	0.05 AL	-
Orange Juice	557	0			0.004 - 0.006	0.05 AL	0.01
Peaches	90	0			0.004 ^	0.05 AL	-
Spinach	511	0			0.004 ^	0.05 AL	-
Summer Squash	186	3	1.6	0.007 - 0.022	0.002 - 0.004	0.05 AL	-
Sweet Peas, Frozen	528	0			0.0009 - 0.002	NT	-
Watermelon	550	0			0.002 - 0.004	0.05 AL	-
Winter Squash	<u>369</u>	<u>2</u>	0.5	0.006 - 0.007	0.004 ^	0.05 AL	-
TOTAL	5,684	5					
Heptachlor epoxide cis (metabolite of Heptachlor)							
Eggplant	740	0			0.004 ^	0.03 AL	-
Plums	515	0			0.004 ^	0.05 AL	-
Plums, Dried (Prunes)	<u>224</u>	<u>0</u>			0.004 ^	0.05 AL	-
TOTAL	1,479	0					
Heptachlor epoxide trans (metabolite of Heptachlor)							
Eggplant	740	0			0.004 ^	0.03 AL	-
Plums	515	0			0.004 ^	0.05 AL	-
Plums, Dried (Prunes)	<u>224</u>	<u>0</u>			0.004 ^	0.05 AL	-
TOTAL	1,479	0					
Hexachlorobenzene - HCB (impurity of Quintozene)							
Applesauce	528	0			0.001 ^	NT	-
Bananas	526	0			0.0008 ^	NT	-
Broccoli	185	0			0.001 ^	0.1	-
Cauliflower	558	0			0.001 ^	0.1	-
Greens, Collard	77	0			0.001 - 0.002	0.2	-
Greens, Kale	85	0			0.001 - 0.002	0.2	-
Potatoes, Frozen	744	0			0.002 ^	0.1	-
Spinach	366	0			0.001 ^	NT	-
Sweet Peas, Frozen	528	0			0.0008 - 0.002	NT	-
Watermelon	189	0			0.0008 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.003 ^	NT	-
TOTAL	4,047	0					
Hexaconazole (fungicide)							
Bananas	742	1	0.1	0.11 ^	0.010 - 0.050	0.7	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	44	0			0.020 ^	NT	-
Watermelon (V-1)	190	1	0.5	0.033 ^	0.010 - 0.020	NT	-
Winter Squash (V-2)	<u>2</u>	<u>2</u>	100.0	0.033 - 0.35	0.020 ^	NT	-
TOTAL	1,108	4					
Hydroprene (insect growth regulator)							
Applesauce	528	0			0.013 ^	0.2	-
Broccoli	185	0			0.013 ^	0.2	-
Cauliflower	558	0			0.013 ^	0.2	-
Spinach	366	0			0.013 ^	0.2	-
Summer Squash	132	0			0.015 ^	0.2	-
Watermelon	180	0			0.010 ^	0.2	-
Winter Squash	<u>261</u>	<u>3</u>	1.1	0.022 ^	0.013 ^	0.2	-
TOTAL	2,210	3					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
3-Hydroxycarbofuran (metabolite of Carbofuran)							
Applesauce	528	0			0.0006 ^	NT	-
Bananas	742	0			0.004 - 0.010	0.1	-
Broccoli	185	0			0.0006 ^	NT	-
Cauliflower	558	0			0.0006 ^	NT	-
Cranberries	316	0			0.004 - 0.030	0.5	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale (V-1)	61	1	1.6	0.018 ^	0.010 ^	NT	-
Orange Juice	396	0			0.001 - 0.010	NT	-
Potatoes, Frozen	744	0			0.001 - 0.004	2	-
Raisins	372	0			0.004 - 0.006	0.4	-
Spinach (V-2)	366	2	0.5	0.001 - 0.004	0.0006 ^	NT	-
Summer Squash	186	1	0.5	0.052 ^	0.004 - 0.006	0.8	-
Sweet Peas, Frozen	506	0			0.010 - 0.018	NT	-
Watermelon	550	5	0.9	0.007 - 0.075	0.004 - 0.010	0.4	-
Winter Squash	369	0			0.004 - 0.012	0.8	-
TOTAL	5,948	9					
5-Hydroxythiabendazole (metabolite of Thiabendazole)							
Applesauce	216	40	18.5	0.002 - 0.019	0.001 ^	10	-
Bananas	216	14	6.5	0.002 ^	0.001 ^	3	-
Carrots	216	0			0.001 ^	10	-
Grapefruit	216	6	2.8	0.002 ^	0.001 ^	10	-
Orange Juice	161	4	2.5	0.002 ^	0.001 ^	10	-
Potatoes, Frozen	744	58	7.8	0.002 - 0.046	0.001 - 0.005	10	-
Winter Squash	108	0			0.001 ^	1.0	-
TOTAL	1,877	122					
Imazalil (fungicide)							
Applesauce	528	0			0.010 ^	NT	5
Bananas	742	228	30.7	0.006 - 0.085	0.004 - 0.010	3.0	2
Broccoli	185	0			0.010 ^	NT	-
Cauliflower	558	0			0.010 ^	NT	-
Grapefruit	739	293	39.6	0.006 - 0.51	0.004 - 0.045	10.0	5
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	557	66	11.8	0.006 - 0.23	0.004 - 0.030	10.0	5
Peaches (V-1)	30	1	3.3	0.050 ^	0.030 ^	NT	-
Spinach	366	0			0.010 ^	NT	-
Sweet Peas, Frozen	484	0			0.010 - 0.15	NT	-
Watermelon (V-1)	189	1	0.5	0.016 ^	0.010 ^	NT	-
Winter Squash	261	0			0.030 ^	NT	-
TOTAL	4,769	589					
Imidacloprid (insecticide)							
Applesauce	744	130	17.5	0.0002 - 0.003	0.0001 - 0.009	0.6	0.5
Bananas	742	0			0.009 - 0.050	0.50	0.05
Broccoli	185	149	80.5	0.0005 - 0.045	0.0003 ^	3.5	0.5
Carrots	216	0			0.009 ^	0.40	-
Cauliflower	558	427	76.5	0.0002 - 0.045	0.0001 - 0.0003	3.5	0.5
Cranberries	316	0			0.009 - 0.047	0.05	-
Grapefruit	743	0			0.009 - 0.014	0.7	1
Greens, Collard	86	15	17.4	0.010 - 0.11	0.009 - 0.010	3.5	-
Greens, Kale	98	28	28.6	0.011 - 0.50	0.009 - 0.010	3.5	-
Orange Juice	557	0			0.001 - 0.010	0.7	1
Peaches	90	4	4.4	0.002 - 0.016	0.001 - 0.009	3.0	0.5
Potatoes, Frozen	744	246	33.1	0.002 - 0.032	0.001 - 0.009	0.40	0.5
Raisins	108	1	0.9	0.066 ^	0.009 ^	1.5	1
Spinach	511	368	72.0	0.0002 - 0.52	0.0001 - 0.009	3.5	-
Summer Squash	54	11	20.4	0.015 - 0.035	0.009 ^	0.5	1
Sweet Peas, Frozen	700	0			0.009 - 0.10	4.0	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Watermelon	370	19	5.1	0.010 - 0.051	0.009 - 0.010	0.5	0.2
Winter Squash	<u>108</u>	<u>7</u>	6.5	0.015 - 0.042	0.009 ^	0.5	1
TOTAL	6,930	1,405					
Indoxacarb (insecticide)							
Applesauce	216	1	0.5	0.008 ^	0.005 ^	1.0	0.5
Bananas	526	0			0.010 ^	NT	-
Cranberries	84	0			0.005 ^	0.50	-
Greens, Collard	86	6	7.0	0.042 - 1.1	0.005 - 0.010	3.0	-
Greens, Kale (V-4)	98	4	4.1	0.008 - 0.073	0.005 - 0.010	NT	-
Peaches	90	0			0.003 - 0.005	10	0.3
Potatoes, Frozen	744	0			0.003 - 0.005	0.01	0.02
Sweet Peas, Frozen	308	0			0.010 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.010 ^	NT	-
TOTAL	2,341	11					
Iprodione (fungicide)							
Applesauce	528	0			0.008 ^	NT	5
Bananas	526	0			0.023 ^	NT	-
Broccoli	169	0			0.008 ^	25.0	25
Carrots	743	99	13.3	0.025 - 0.13	0.015 - 0.035	5.0	10
Cauliflower (V-2)	558	2	0.4	0.014 ^	0.008 ^	NT	-
Cranberries	209	0			0.025 ^	NT	-
Peaches	90	30	33.3	0.078 - 7.4	0.015 ^	20.0	10
Plums	515	187	36.3	0.065 - 6.9	0.039 ^	20.0	-
Plums, Dried (Prunes)	224	1	0.4	0.36 ^	0.039 ^	20.0	-
Potatoes, Frozen	744	0			0.015 ^	0.5	-
Raisins	372	3	0.8	0.025 - 1.3	0.015 - 0.030	300	10
Spinach (V-5)	368	5	1.4	0.014 - 0.074	0.008 - 0.015	NT	-
Sweet Peas, Frozen	528	0			0.012 - 0.023	NT	-
Watermelon	189	0			0.023 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.008 ^	NT	-
TOTAL	6,024	327					
Iprodione metabolite isomer (metabolite of Iprodione)							
Applesauce	527	0			0.098 ^	NT	-
Broccoli	185	0			0.098 ^	25.0	-
Cauliflower	558	0			0.098 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.098 ^	NT	-
TOTAL	1,636	0					
Iprovalicarb (fungicide)							
Raisins	<u>264</u>	<u>0</u>			0.030 ^	NT	-
TOTAL	264	0					
Kresoxim-methyl (fungicide)							
Applesauce	528	0			0.003 ^	0.5	0.2
Broccoli	185	0			0.003 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.003 ^	NT	-
TOTAL	1,079	0					
Lindane - BHC gamma (insecticide)							
Applesauce	744	0			0.002 - 0.003	NT	-
Bananas	526	0			0.002 ^	NT	-
Broccoli	169	0			0.003 ^	1.0	-
Carrots	743	0			0.002 - 0.025	0.5 AL	-
Cauliflower	558	0			0.003 ^	1.0 AL	-
Cranberries	316	0			0.002 - 0.020	NT	-
Eggplant	740	0			0.005 ^	NT	-
Grapefruit	743	0			0.002 - 0.005	0.5 AL	-
Orange Juice	557	0			0.002 ^	0.5 AL	-
Peaches	90	0			0.002 ^	NT	-

Pesticide / Commodity	Number of Samples	Samples		Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
		with Detections	% of Samples with Detections				
Plums	515	0			0.004 ^	NT	-
Plums, Dried (Prunes)	224	0			0.004 ^	NT	-
Potatoes, Frozen	744	0			0.002 ^	0.5 AL	-
Raisins	372	0			0.002 - 0.004	NT	-
Spinach	511	0			0.002 - 0.003	NT	-
Summer Squash	186	0			0.002 ^	NT	-
Sweet Peas, Frozen	744	0			0.0009 - 0.002	0.5 AL	-
Watermelon	550	0			0.002 ^	NT	-
Winter Squash	369	0			0.002 - 0.006	NT	-
TOTAL	9,401	0					
Linuron (herbicide)							
Applesauce	528	0			0.003 ^	NT	-
Bananas	526	0			0.008 ^	NT	-
Broccoli	185	0			0.003 ^	NT	-
Carrots	216	169	78.2	0.003 - 0.22	0.002 ^	1	-
Cauliflower	558	0			0.003 ^	NT	-
Potatoes, Frozen	744	3	0.4	0.002 ^	0.001 - 0.002	1	-
Spinach (V-10)	366	10	2.7	0.005 - 0.031	0.003 ^	NT	-
Sweet Peas, Frozen	528	0			0.008 - 0.012	NT	-
Watermelon	189	0			0.008 ^	NT	-
TOTAL	3,840	182					
Malathion (insecticide)							
Applesauce	744	0			0.003 - 0.004	8	0.5
Bananas	526	0			0.004 ^	NT	-
Broccoli	185	0			0.003 ^	8	-
Carrots	744	0			0.002 - 0.004	8	0.5
Cauliflower	558	0			0.003 ^	8	-
Cranberries	316	1	0.3	0.007 ^	0.002 - 0.004	8	-
Eggplant	740	1	0.1	0.013 ^	0.008 ^	8	-
Grapefruit	743	0			0.001 - 0.004	8	7
Greens, Collard	86	0			0.004 ^	8	-
Greens, Kale	98	7	7.1	0.007 - 0.19	0.004 ^	8	-
Orange Juice	557	0			0.004 ^	8	7
Peaches	90	3	3.3	0.007 ^	0.004 ^	8	-
Plums	515	0			0.008 ^	8	-
Plums, Dried (Prunes)	224	0			0.008 ^	8	-
Potatoes, Frozen	744	0			0.004 ^	8	0.5
Raisins	372	0			0.006 - 0.008	12	5
Spinach	511	3	0.6	0.007 - 0.015	0.003 - 0.004	8	3
Summer Squash	186	0			0.004 - 0.006	8	-
Sweet Peas, Frozen	744	0			0.004 - 0.010	8	-
Watermelon	550	0			0.004 - 0.006	8	-
Winter Squash	369	0			0.004 - 0.007	8	-
TOTAL	9,602	15					
Malathion oxygen analog (metabolite of Malathion)							
Applesauce	744	0			0.003 ^	NT	-
Bananas	526	0			0.006 ^	NT	-
Broccoli	185	0			0.010 ^	NT	-
Carrots	744	0			0.001 - 0.003	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Cranberries	316	0			0.0001 - 0.004	NT	-
Eggplant	740	0			0.019 ^	NT	-
Grapefruit	743	0			0.001 - 0.003	NT	-
Greens, Collard	86	0			0.003 - 0.006	NT	-
Greens, Kale	98	0			0.003 - 0.006	NT	-
Orange Juice	557	0			0.003 ^	NT	-
Peaches	90	0			0.003 ^	NT	-
Plums	515	0			0.019 ^	NT	-
Plums, Dried (Prunes)	224	0			0.019 ^	NT	-
Potatoes, Frozen	744	0			0.003 ^	NT	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Raisins	372	0			0.006 - 0.008	NT	-
Spinach	511	0			0.003 - 0.010	NT	-
Summer Squash	186	0			0.003 - 0.006	NT	-
Sweet Peas, Frozen	744	0			0.003 - 0.010	NT	-
Watermelon	550	0			0.003 - 0.006	NT	-
Winter Squash	<u>369</u>	<u>0</u>			0.003 - 0.007	NT	-
TOTAL	9,602	0					
Mepanipyrim (fungicide)							
Raisins	<u>264</u>	<u>0</u>			0.030 ^	NT	-
TOTAL	264	0					
Metalaxyl (fungicide)							
Applesauce	744	0			0.006 - 0.010	0.2	1
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.006 ^	2.0	0.5
Carrots	743	19	2.6	0.017 - 0.033	0.010 - 0.018	0.5	0.05
Cauliflower	542	0			0.006 ^	1.0	0.5
Cranberries	316	0			0.010 - 0.035	4.0	-
Eggplant	740	0			0.020 ^	1.0	-
Grapefruit	743	0			0.010 - 0.040	1.0	5
Greens, Collard	86	2	2.3	0.017 - 0.037	0.010 - 0.015	0.1	-
Greens, Kale	98	3	3.1	0.017 - 0.022	0.010 - 0.015	0.1	-
Orange Juice	557	0			0.010 ^	1.0	5
Peaches	90	0			0.010 ^	1.0	-
Plums	515	0			0.020 ^	1.0	-
Plums, Dried (Prunes)	224	0			0.020 ^	1.0	-
Potatoes, Frozen	744	0			0.010 ^	0.5	0.05
Raisins	372	0			0.020 - 0.030	6.0	1
Spinach	511	4	0.8	0.010 - 0.080	0.006 - 0.010	10.0	2
Summer Squash	186	5	2.7	0.017 - 0.043	0.010 - 0.015	1.0	0.2
Sweet Peas, Frozen	744	0			0.010 - 0.015	0.2	0.05
Watermelon	550	4	0.7	0.017 - 0.074	0.008 - 0.015	1.0	-
Winter Squash	<u>369</u>	<u>0</u>			0.008 - 0.010	1.0	0.2
TOTAL	9,585	37					
Methamidophos (insecticide) (also a metabolite of Acephate)							
Applesauce	744	1	0.1	0.002 ^	0.001 - 0.002	0.02	-
Bananas	742	0			0.002 - 0.008	0.02	-
Carrots	216	0			0.002 ^	0.02	-
Cranberries	84	13	15.5	0.003 - 0.009	0.002 ^	0.5	-
Eggplant	740	32	4.3	0.007 - 0.19	0.004 ^	1.0	-
Grapefruit	216	0			0.002 ^	0.02	-
Greens, Collard	86	0			0.002 - 0.050	0.02	-
Greens, Kale	98	0			0.002 - 0.050	0.02	-
Orange Juice	557	0			0.002 ^	0.02	-
Peaches	90	9	10.0	0.003 - 0.021	0.002 ^	0.02	-
Plums	515	0			0.004 ^	0.02	-
Plums, Dried (Prunes)	224	0			0.004 ^	0.02	-
Potatoes, Frozen	744	3	0.4	0.003 ^	0.002 ^	0.1	0.05
Raisins	108	0			0.004 ^	0.02	-
Spinach	511	4	0.8	0.002 - 0.018	0.001 - 0.002	0.02	-
Summer Squash	186	0			0.002 - 0.004	0.02	-
Sweet Peas, Frozen	744	1	0.1	0.008 ^	0.002 - 0.008	0.02	-
Watermelon	550	24	4.4	0.003 - 0.083	0.002 - 0.008	0.5	-
Winter Squash	<u>369</u>	<u>7</u>	1.9	0.003 - 0.025	0.002 - 0.004	0.02	-
TOTAL	7,524	94					
Methidathion (insecticide)							
Applesauce	744	0			0.002 - 0.004	0.05	0.5
Bananas	526	0			0.004 ^	NT	-
Broccoli	185	0			0.008 ^	NT	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Cauliflower	558	0			0.002 ^	NT	-
Grapefruit	216	0			0.004 ^	2.0	2
Orange Juice	557	0			0.004 - 0.005	2.0	2
Peaches	90	0			0.004 ^	0.05	0.2
Plums	515	0			0.003 ^	0.05	0.2
Plums, Dried (Prunes)	224	0			0.003 ^	0.05	0.2
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.004 - 0.010	NT	0.1
Watermelon	189	0			0.004 ^	NT	-
Winter Squash	261	0			0.010 ^	NT	-
TOTAL	4,959	0					
Methiocarb (insecticide) (analyzed as sulfoxide)							
Applesauce	528	0			0.0006 ^	NT	-
Bananas	526	0			0.010 ^	NT	-
Broccoli	185	0			0.0006 ^	NT	-
Cauliflower	558	0			0.0006 ^	NT	0.1
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Spinach	366	0			0.0006 ^	NT	-
Sweet Peas, Frozen	506	0			0.010 - 0.015	NT	0.1
Watermelon	189	0			0.010 ^	NT	-
TOTAL	2,988	0					
Methomyl (insecticide)							
Applesauce	744	0			0.004 - 0.014	1	2
Bananas	506	0			0.010 - 0.050	NT	-
Broccoli	185	5	2.7	0.004 - 0.14	0.002 ^	3	-
Carrots	744	1	0.1	0.023 ^	0.008 - 0.014	0.2	-
Cauliflower	558	4	0.7	0.002 - 0.13	0.001 - 0.002	2	2
Eggplant	740	9	1.2	0.020 - 0.12	0.012 ^	0.2	-
Grapefruit	743	0			0.014 ^	2	1
Greens, Collard	86	0			0.010 - 0.014	6	-
Greens, Kale	98	1	1.0	0.023 ^	0.010 - 0.014	6	-
Orange Juice	557	0			0.003 - 0.014	2	1
Peaches	90	11	12.2	0.017 - 0.49	0.001 - 0.014	5	0.2
Potatoes, Frozen	744	0			0.001 - 0.014	0.2	0.02
Raisins	372	0			0.006 - 0.014	5	5
Spinach	511	36	7.0	0.005 - 0.89	0.002 - 0.014	6	-
Summer Squash	186	4	2.2	0.010 - 0.034	0.006 - 0.014	0.2	-
Sweet Peas, Frozen	744	0			0.010 - 0.015	5	5
Watermelon	550	20	3.6	0.007 - 0.14	0.004 - 0.014	0.2	0.2
Winter Squash	369	2	0.5	0.023 ^	0.012 - 0.014	0.2	-
TOTAL	8,527	93					
Methoprene (insect growth regulator)							
Applesauce	528	0			0.014 ^	NT	-
Broccoli	185	0			0.014 ^	NT	-
Cauliflower	558	0			0.048 ^	NT	-
Spinach	366	0			0.014 ^	NT	-
TOTAL	1,637	0					
Methoxychlor Total (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Carrots	527	0			0.025 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Cranberries	232	0			0.051 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	220	0			0.003 ^	NT	-
TOTAL	2,616	0					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
Methoxychlor olefin (metabolite of Methoxychlor)							
Applesauce	527	0			0.001 ^	NT	-
Broccoli	185	0			0.001 ^	NT	-
Cauliflower	558	0			0.001 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.001 ^	NT	-
TOTAL	1,636	0					
Methoxychlor p,p' (isomer of Methoxychlor)							
Bananas	526	0			0.008 ^	NT	-
Carrots	216	0			0.010 ^	NT	-
Orange Juice	396	0			0.020 ^	NT	-
Peaches	71	0			0.011 ^	NT	-
Sweet Peas, Frozen	308	0			0.008 ^	NT	-
Watermelon	189	0			0.008 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.009 ^	NT	-
TOTAL	1,967	0					
Methoxyfenozide (insecticide)							
Applesauce	216	55	25.5	0.002 - 0.021	0.001 ^	1.5	2
Carrots	612	15	2.5	0.0005 - 0.013	0.0005 - 0.001	0.5	-
Cranberries	316	44	13.9	0.002 - 0.036	0.001 - 0.008	0.5	-
Greens, Collard	86	17	19.8	0.003 - 2.1	0.001 - 0.010	30	-
Greens, Kale	98	28	28.6	0.002 - 3.4	0.001 - 0.010	30	-
Peaches	90	25	27.8	0.002 - 0.10	0.001 ^	3.0	2
Potatoes, Frozen	744	0			0.001 ^	0.1	-
Raisins	108	81	75.0	0.002 - 0.16	0.001 ^	1.5	3
Spinach	145	7	4.8	0.029 - 0.44	0.001 ^	30	-
Summer Squash	54	0			0.001 ^	0.3	-
Sweet Peas, Frozen	216	0			0.001 ^	1.5	-
Watermelon	181	0			0.001 ^	0.3	-
Winter Squash	<u>108</u>	<u>3</u>	2.8	0.002 - 0.012	0.001 ^	0.3	-
TOTAL	2,974	275					
Metolachlor (herbicide)							
Applesauce	528	0			0.001 ^	NT	-
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.001 ^	0.6	-
Cauliflower	558	0			0.001 ^	0.6	-
Cranberries	316	0			0.010 ^	NT	-
Greens, Collard	86	0			0.010 - 0.015	NT	-
Greens, Kale	98	0			0.010 - 0.015	NT	-
Orange Juice	44	0			0.010 ^	NT	-
Peaches	90	0			0.010 ^	0.1	-
Plums	515	0			0.023 ^	0.1	-
Plums, Dried (Prunes)	224	0			0.023 ^	0.1	-
Potatoes, Frozen	744	0			0.010 ^	0.2	-
Spinach	511	2	0.4	0.002 ^	0.001 - 0.010	0.5	-
Sweet Peas, Frozen	744	0			0.009 - 0.015	0.3	-
Watermelon	189	0			0.015 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	5,619	2					
Metribuzin (herbicide)							
Applesauce	528	0			0.013 ^	NT	-
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.013 ^	NT	-
Carrots	744	0			0.006 - 0.030	0.3	-
Cauliflower	558	0			0.044 ^	NT	-
Orange Juice	44	0			0.030 ^	NT	-
Potatoes, Frozen	744	0			0.030 ^	0.6	-
Spinach (V-4)	366	4	1.1	0.022 - 0.084	0.013 ^	NT	-
Sweet Peas, Frozen	744	0			0.015 - 0.030	0.1	-

Pesticide / Commodity	Number of Samples	Samples		Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
		with Detections	% of Samples with Detections				
Watermelon	189	0			0.015 ^	NT	-
Winter Squash (V-1)	<u>262</u>	<u>1</u>	0.4	0.11 ^	0.016 - 0.030	NT	-
TOTAL	4,890	5					
Mevinphos (insecticide)							
Applesauce	528	0			0.002 - 0.005	NT	-
Bananas	526	0			0.008 ^	NT	-
Greens, Collard	69	0			0.008 ^	NT	-
Greens, Kale	61	0			0.008 ^	NT	-
Orange Juice	396	0			0.004 ^	NT	-
Raisins	372	0			0.004 ^	0.5	-
Spinach	511	0			0.002 ^	NT	-
Summer Squash	186	0			0.002 - 0.004	0.25	-
Sweet Peas, Frozen	744	0			0.002 - 0.012	0.25	-
Watermelon	550	0			0.002 - 0.008	0.5	-
Winter Squash	<u>261</u>	<u>0</u>			0.012 ^	NT	-
TOTAL	4,204	0					
Monocrotophos (insecticide)							
Bananas	526	0			0.008 ^	NT	-
Greens, Collard	69	0			0.008 ^	NT	-
Greens, Kale	61	0			0.008 ^	NT	-
Sweet Peas, Frozen	308	0			0.008 ^	NT	-
Watermelon	189	0			0.008 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.007 ^	NT	-
TOTAL	1,414	0					
Myclobutanil (fungicide)							
Applesauce	744	5	0.7	0.002 ^	0.0009 - 0.020	0.5	0.5
Bananas	742	2	0.3	0.038 ^	0.020 - 0.023	4.0	2
Broccoli	185	0			0.0009 ^	0.03	-
Carrots	744	5	0.7	0.0006 - 0.001	0.0006 - 0.020	0.03	-
Cauliflower	558	0			0.0009 ^	0.03	-
Eggplant	740	0			0.040 ^	0.03	-
Greens, Collard	86	0			0.020 - 0.075	0.03	-
Greens, Kale	98	0			0.020 - 0.075	0.03	-
Orange Juice	396	0			0.020 ^	NT	-
Peaches	90	12	13.3	0.002 - 0.026	0.001 - 0.020	2.0	2
Plums	515	1	0.2	0.055 ^	0.033 ^	2.0	0.2
Plums, Dried (Prunes)	224	0			0.033 ^	2.0	0.5
Potatoes, Frozen	744	1	0.1	0.002 ^	0.001 - 0.020	0.03	-
Raisins	372	5	1.3	0.053 - 0.067	0.040 - 0.050	10.0	1
Spinach	511	0			0.0009 - 0.020	0.03	-
Summer Squash	186	1	0.5	0.033 ^	0.020 - 0.025	0.20	-
Sweet Peas, Frozen	744	0			0.015 - 0.023	1.0	-
Watermelon	550	0			0.020 - 0.023	0.20	-
Winter Squash	<u>369</u>	<u>4</u>	1.1	0.014 ^	0.008 - 0.020	0.20	-
TOTAL	8,598	36					
Napropamide (herbicide)							
Applesauce	744	0			0.007 - 0.020	0.1	-
Broccoli	185	0			0.007 ^	0.1	-
Cauliflower	558	0			0.007 ^	0.1	-
Cranberries	232	0			0.040 ^	NT	-
Eggplant	740	0			0.033 ^	0.1	-
Grapefruit	743	0			0.020 ^	0.1	-
Greens, Collard	86	0			0.010 - 0.020	0.1	-
Greens, Kale	98	0			0.010 - 0.020	0.1	-
Orange Juice	557	0			0.020 ^	0.1	-
Peaches	90	0			0.020 ^	0.1	-
Plums	515	0			0.033 ^	0.1	-
Plums, Dried (Prunes)	224	0			0.033 ^	0.1	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Spinach	366	0			0.007 ^	NT	-
Summer Squash	186	0			0.020 - 0.066	0.1	-
Watermelon	361	0			0.020 ^	0.1	-
Winter Squash	369	0			0.020 - 0.040	0.1	-
TOTAL	6,054	0					
1-Naphthol (metabolite of Carbaryl)							
Applesauce	216	10	4.6	0.017 ^	0.010 ^	10	-
Bananas	216	0			0.010 ^	10	-
Carrots	216	0			0.010 ^	10	-
Cranberries	84	40	47.6	0.017 - 0.20	0.010 ^	10	-
Grapefruit	216	0			0.010 ^	10	-
Greens, Collard	64	0			0.010 - 0.10	12	-
Greens, Kale	75	0			0.010 - 0.10	12	-
Orange Juice	161	0			0.010 ^	10	-
Peaches	90	18	20.0	0.017 - 0.27	0.010 ^	10	-
Potatoes, Frozen	726	0			0.010 ^	0.2	-
Raisins	108	1	0.9	0.033 ^	0.020 ^	10	-
Spinach	145	0			0.010 ^	12	-
Summer Squash	54	0			0.010 ^	10	-
Sweet Peas, Frozen	198	0			0.010 ^	10	-
Watermelon	181	0			0.010 ^	10	-
Winter Squash	369	0			0.010 - 0.16	10	-
TOTAL	3,119	69					
Norflurazon (herbicide)							
Applesauce	729	0			0.005 - 0.020	0.1	-
Bananas	526	0			0.010 ^	NT	-
Broccoli	185	0			0.005 - 0.032	NT	-
Cranberries	84	0			0.020 ^	0.1	-
Grapefruit	216	0			0.020 ^	0.2	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	557	0			0.020 ^	0.2	-
Peaches	90	0			0.020 ^	0.1	-
Plums	515	0			0.053 ^	0.1	-
Plums, Dried (Prunes)	224	0			0.053 ^	0.1	-
Raisins	372	0			0.030 - 0.040	0.1	-
Spinach	366	0			0.005 ^	NT	-
Sweet Peas, Frozen	484	0			0.010 - 0.040	NT	-
Watermelon	189	0			0.010 ^	NT	-
Winter Squash	261	0			0.018 ^	NT	-
TOTAL	4,928	0					
Norflurazon desmethyl (metabolite of Norflurazon)							
Applesauce	744	0			0.030 - 0.060	0.1	-
Bananas	526	0			0.010 - 0.050	NT	-
Broccoli	185	0			0.018 - 0.12	NT	-
Cauliflower	528	0			0.060 - 0.12	NT	-
Cranberries	84	0			0.030 ^	0.1	-
Grapefruit	216	0			0.030 - 0.10	0.2	-
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	557	0			0.030 ^	0.2	-
Peaches	90	0			0.030 ^	0.1	-
Plums	515	0			0.041 ^	0.1	-
Plums, Dried (Prunes)	224	0			0.041 ^	0.1	-
Raisins	108	0			0.060 ^	0.1	-
Spinach	351	0			0.018 ^	NT	-
Sweet Peas, Frozen	484	0			0.010 - 0.040	NT	-
Watermelon	189	0			0.010 ^	NT	-
TOTAL	4,931	0					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
Novaluron (insecticide)							
Peaches	71	0			0.015 ^	NT	-
Potatoes, Frozen	528	0			0.015 ^	0.05	0.01
TOTAL	599	0					
Omethoate (metabolite of Dimethoate)							
Applesauce	744	0			0.002 - 0.004	2	-
Bananas	526	0			0.008 ^	NT	-
Broccoli	64	0			0.008 ^	2	-
Cauliflower	558	4	0.7	0.004 - 0.014	0.002 ^	2	-
Grapefruit	216	0			0.004 ^	2	-
Greens, Collard	86	0			0.004 - 0.050	2	-
Greens, Kale	98	0			0.004 - 0.050	2	-
Orange Juice	557	0			0.004 ^	2	-
Potatoes, Frozen	744	0			0.004 ^	0.2	-
Raisins	372	0			0.008 ^	1	-
Spinach	511	66	12.9	0.004 - 1.2	0.002 - 0.004	2	-
Sweet Peas, Frozen	744	17	2.3	0.007 - 0.019	0.004 - 0.008	2	-
Watermelon	550	13	2.4	0.007 - 0.17	0.004 - 0.008	1	-
Winter Squash	261	0			0.018 ^	NT	-
TOTAL	6,031	100					
Oryzalin (herbicide)							
Bananas	460	0			0.020 ^	NT	-
Greens, Collard	69	0			0.020 ^	NT	-
Greens, Kale	61	0			0.020 ^	NT	-
Sweet Peas, Frozen	308	0			0.020 ^	NT	-
Watermelon	168	0			0.020 ^	NT	-
TOTAL	1,066	0					
Oxadixyl (fungicide)							
Applesauce	528	0			0.013 ^	NT	-
Broccoli	185	0			0.013 ^	NT	-
Cauliflower	558	0			0.013 ^	NT	-
Orange Juice	44	0			0.015 ^	NT	-
Spinach	366	0			0.013 ^	NT	-
Winter Squash	261	0			0.008 ^	NT	-
TOTAL	1,942	0					
Oxamyl (insecticide)							
Applesauce	700	0			0.002 - 0.008	2	2
Bananas	742	0			0.008 - 0.050	0.3	-
Broccoli	185	0			0.006 ^	NT	-
Carrots	744	0			0.004 - 0.008	0.1	0.1
Cauliflower	542	0			0.0009 - 0.002	NT	-
Eggplant	740	13	1.8	0.025 - 0.14	0.015 ^	2.0	-
Grapefruit	743	0			0.004 - 0.008	3	5
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	557	0			0.001 - 0.010	3	5
Potatoes, Frozen	744	17	2.3	0.002 - 0.009	0.001 - 0.008	0.1	0.1
Spinach	366	0			0.002 - 0.003	NT	-
Summer Squash	186	10	5.4	0.010 - 0.036	0.006 - 0.008	2.0	-
Sweet Peas, Frozen	528	0			0.010 - 0.018	NT	-
Watermelon	550	12	2.2	0.010 - 0.16	0.004 - 0.010	2.0	-
Winter Squash	369	0			0.008 ^	2.0	-
TOTAL	7,826	52					
Oxamyl oxime (metabolite of Oxamyl)							
Applesauce	216	1	0.5	0.017 ^	0.010 ^	2	2
Bananas	720	9	1.2	0.014 - 0.027	0.010 - 0.050	0.3	-
Carrots	744	0			0.010 - 0.014	0.1	0.1

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Grapefruit	743	0			0.010 - 0.014	3	5
Orange Juice	557	0			0.001 - 0.010	3	5
Potatoes, Frozen	744	65	8.7	0.002 - 0.023	0.001 - 0.010	0.1	0.1
Summer Squash	54	2	3.7	0.017 - 0.059	0.010 ^	2.0	-
Sweet Peas, Frozen	308	0			0.010 ^	NT	-
Watermelon	370	15	4.1	0.017 - 0.081	0.010 ^	2.0	-
Winter Squash	108	0			0.010 ^	2.0	-
TOTAL	4,564	92					
Oxychlorane (metabolite of Chlordane)							
Applesauce	528	0			0.002 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
TOTAL	1,637	0					
Oxydemeton methyl (insecticide)							
Grapefruit	483	0			0.020 ^	1	-
TOTAL	483	0					
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)							
Applesauce	730	0			0.009 - 0.015	1	-
Bananas	526	0			0.023 ^	NT	-
Eggplant	740	0			0.028 ^	1	-
Grapefruit	743	0			0.005 - 0.015	1	-
Greens, Collard	69	0			0.010 ^	NT	0.01
Greens, Kale	61	0			0.010 ^	NT	0.01
Orange Juice	557	0			0.015 ^	1	-
Plums	515	0			0.028 ^	1	-
Plums, Dried (Prunes)	224	0			0.028 ^	1	-
Raisins	372	0			0.012 - 0.030	0.1	-
Spinach	323	0			0.009 - 0.012	NT	-
Summer Squash	186	0			0.012 - 0.015	1	-
Sweet Peas, Frozen	528	0			0.023 - 0.024	NT	-
Watermelon	550	0			0.012 - 0.023	0.3	-
Winter Squash	108	0			0.015 ^	0.3	-
TOTAL	6,232	0					
Oxyfluorfen (herbicide)							
Applesauce	744	0			0.010 - 0.030	0.05	-
Bananas	742	0			0.025 - 0.030	0.05	-
Broccoli	185	0			0.003 ^	0.05	-
Cauliflower	558	0			0.010 ^	0.05	-
Orange Juice	44	0			0.030 ^	NT	-
Peaches	19	0			0.030 ^	0.05	-
Plums	515	0			0.032 ^	0.05	-
Plums, Dried (Prunes)	224	0			0.032 ^	0.05	-
Raisins	372	0			0.030 - 0.060	0.05	-
Spinach	366	0			0.003 ^	NT	-
Watermelon	189	0			0.025 ^	NT	-
TOTAL	3,958	0					
Parathion (insecticide)							
Applesauce	528	0			0.003 - 0.005	NT	-
Bananas	526	0			0.008 ^	NT	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 - 0.005	NT	-
Orange Juice	396	0			0.003 ^	NT	-
Spinach	366	0			0.003 - 0.005	NT	-
Sweet Peas, Frozen	528	0			0.008 - 0.010	NT	-
Watermelon	189	0			0.008 ^	NT	-
Winter Squash	261	0			0.006 ^	NT	-
TOTAL	3,537	0					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Parathion methyl (insecticide)							
Applesauce	528	0			0.002 ^	NT	0.2
Bananas (V-1)	262	1	0.4	0.007 ^	0.004 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Greens, Collard	69	0			0.004 ^	NT	-
Greens, Kale	61	0			0.004 ^	NT	-
Potatoes, Frozen	744	0			0.002 ^	0.1	0.05
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	744	0			0.002 - 0.006	1.0	-
Watermelon	63	0			0.004 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.006 ^	NT	-
TOTAL	3,841	1					
Parathion methyl oxygen analog (metabolite of Parathion methyl)							
Applesauce	528	0			0.005 ^	NT	-
Broccoli	152	0			0.005 ^	NT	-
Cauliflower	558	0			0.005 ^	NT	-
Potatoes, Frozen	744	0			0.003 ^	NT	-
Spinach	366	0			0.005 ^	NT	-
Sweet Peas, Frozen	<u>700</u>	<u>0</u>			0.003 - 0.012	NT	-
TOTAL	3,048	0					
Parathion oxygen analog (metabolite of Parathion)							
Applesauce	528	0			0.003 ^	NT	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Orange Juice	396	0			0.003 ^	NT	-
Spinach	366	0			0.003 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	2,294	0					
Pendimethalin (herbicide)							
Bananas	526	0			0.015 ^	NT	-
Greens, Collard	69	0			0.015 ^	NT	-
Greens, Kale	61	0			0.015 ^	NT	-
Orange Juice	44	0			0.020 ^	0.1	-
Potatoes, Frozen	216	0			0.020 ^	0.1	-
Sweet Peas, Frozen	744	0			0.015 - 0.020	0.1	-
Watermelon	189	0			0.015 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	2,110	0					
Pentachloroaniline - PCA (metabolite of Quintozene)							
Applesauce	528	0			0.001 ^	NT	-
Bananas	526	0			0.005 ^	NT	-
Broccoli	185	0			0.001 ^	0.1	-
Cauliflower	558	0			0.001 ^	0.1	-
Greens, Collard	60	0			0.030 ^	0.2	-
Greens, Kale	48	0			0.030 ^	0.2	-
Potatoes, Frozen	528	1	0.2	0.017 ^	0.010 ^	0.1	-
Spinach (V-3)	366	3	0.8	0.002 ^	0.001 ^	NT	-
Sweet Peas, Frozen	528	0			0.003 - 0.005	0.1	-
Watermelon	<u>189</u>	<u>0</u>			0.005 ^	NT	-
TOTAL	3,516	4					
Pentachlorobenzene - PCB (metabolite of Quintozene)							
Applesauce	514	0			0.002 ^	NT	-
Bananas	526	0			0.002 ^	NT	-
Broccoli	185	0			0.002 ^	0.1	-
Carrots (V-1)	1	1	100.0	0.003 ^	0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	0.1	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Greens, Collard	77	0			0.002 - 0.005	0.2	-
Greens, Kale	85	0			0.002 - 0.005	0.2	-
Potatoes, Frozen	722	8	1.1	0.003 ^	0.002 ^	0.1	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.002 - 0.003	NT	-
Watermelon	189	0			0.002 ^	NT	-
Winter Squash	261	0			0.002 ^	NT	-
TOTAL	4,012	9					
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)							
Applesauce	528	0			0.001 ^	NT	-
Bananas	526	0			0.005 ^	NT	-
Broccoli	169	0			0.001 ^	0.1	-
Cauliflower	558	0			0.005 ^	0.1	-
Greens, Collard	60	0			0.005 ^	0.2	-
Greens, Kale	48	0			0.005 ^	0.2	-
Potatoes, Frozen	528	0			0.010 ^	0.1	-
Spinach	366	0			0.001 ^	NT	-
Sweet Peas, Frozen	528	0			0.003 - 0.005	NT	-
Watermelon	189	0			0.005 ^	NT	-
TOTAL	3,500	0					
Permethrin Total (insecticide)							
Bananas	526	0			0.038 ^	NT	-
Greens, Collard	69	5	7.2	0.19 - 4.9	0.10 - 0.13	20.0	5
Greens, Kale (V-1)	61	1	1.6	0.25 ^	0.10 - 0.13	NT	5
Summer Squash	132	0			0.050 ^	3.0	0.5
Sweet Peas, Frozen	308	0			0.038 ^	NT	0.1
Watermelon	369	0			0.030 - 0.038	3.0	-
Winter Squash	261	3	1.1	0.048 - 0.18	0.029 ^	3.0	0.5
TOTAL	1,726	9					
Permethrin cis (isomer of Permethrin)							
Applesauce	744	0			0.002 - 0.012	0.05	2
Broccoli	185	4	2.2	0.004 - 0.071	0.002 ^	1.0	2
Cauliflower	558	1	0.2	0.004 ^	0.002 ^	1.0	0.5
Cranberries	232	0			0.025 ^	NT	-
Eggplant	740	2	0.3	0.022 ^	0.013 ^	1.0	1
Greens, Collard	17	1	5.9	0.020 ^	0.012 ^	20.0	5
Greens, Kale (V-1)	37	1	2.7	0.067 ^	0.012 ^	NT	5
Orange Juice	44	0			0.012 ^	NT	0.5
Peaches	90	0			0.012 ^	5.0	2
Potatoes, Frozen	744	0			0.012 ^	0.05	0.05
Spinach	511	289	56.6	0.004 - 4.5	0.002 - 0.012	20.0	2
Summer Squash	54	0			0.012 ^	3.0	0.5
Sweet Peas, Frozen	220	0			0.006 ^	NT	0.1
Watermelon	181	1	0.6	0.025 ^	0.015 ^	3.0	-
Winter Squash	108	0			0.012 ^	3.0	0.5
TOTAL	4,465	299					
Permethrin trans (isomer of Permethrin)							
Applesauce	744	0			0.002 - 0.012	0.05	2
Broccoli	185	4	2.2	0.004 - 0.055	0.002 ^	1.0	2
Cauliflower	558	1	0.2	0.004 ^	0.002 ^	1.0	0.5
Cranberries	232	0			0.025 ^	NT	-
Eggplant	740	2	0.3	0.022 ^	0.013 ^	1.0	1
Grapefruit	18	0			0.012 ^	NT	0.05
Greens, Collard	17	0			0.012 ^	20.0	5
Greens, Kale (V-1)	37	1	2.7	0.062 ^	0.012 ^	NT	5
Orange Juice	44	0			0.012 ^	NT	0.5
Peaches	90	0			0.012 ^	5.0	2
Potatoes, Frozen	744	0			0.012 ^	0.05	0.05

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Spinach	511	287	56.2	0.004 - 5.3	0.002 - 0.012	20.0	2
Summer Squash	54	0			0.012 ^	3.0	0.5
Sweet Peas, Frozen	220	0			0.006 ^	NT	0.1
Watermelon	181	1	0.6	0.025 ^	0.015 ^	3.0	-
Winter Squash	<u>108</u>	<u>0</u>			0.012 ^	3.0	0.5
TOTAL	4,483	296					
Phenmedipham (herbicide)							
Winter Squash	<u>261</u>	<u>0</u>			0.097 ^	NT	-
TOTAL	261	0					
Phenothrin (insecticide)							
Bananas	526	0			0.075 ^	NT	-
Sweet Peas, Frozen	308	0			0.075 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.075 ^	NT	-
TOTAL	1,023	0					
Phenthoate (insecticide)							
Applesauce	528	0			0.006 ^	NT	-
Broccoli	185	0			0.006 ^	NT	-
Cauliflower	558	0			0.006 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.006 ^	NT	-
TOTAL	1,637	0					
o-Phenylphenol (fungicide)							
Applesauce	744	8	1.1	0.005 - 0.048	0.003 - 0.033	25	-
Bananas (V-31)	742	31	4.2	0.034 - 0.068	0.015 - 0.033	NT	-
Broccoli	185	0			0.003 ^	NT	-
Carrots	216	7	3.2	0.034 - 0.041	0.033 ^	20	-
Cauliflower	558	0			0.003 ^	NT	-
Cranberries	316	0			0.033 - 0.076	NT	-
Grapefruit	743	3	0.4	0.034 - 0.088	0.033 - 0.076	10	10
Greens, Collard	86	0			0.015 - 0.033	NT	-
Greens, Kale (V-4)	98	4	4.1	0.035 - 0.038	0.015 - 0.033	NT	-
Orange Juice	557	50	9.0	0.017 - 0.064	0.010 - 0.033	10	0.5
Peaches	90	0			0.010 - 0.033	20	-
Plums	515	2	0.4	0.017 ^	0.010 ^	20	-
Plums, Dried (Prunes)	224	0			0.010 ^	20	-
Potatoes, Frozen (V-32)	744	32	4.3	0.017 - 0.084	0.010 - 0.033	NT	-
Raisins	108	0			0.033 ^	NT	-
Spinach	511	0			0.003 - 0.033	NT	-
Summer Squash (V-11)	54	11	20.4	0.036 - 0.052	0.033 ^	NT	-
Sweet Peas, Frozen (V-17)	524	17	3.2	0.039 - 0.19	0.015 - 0.033	NT	-
Watermelon	370	0			0.015 - 0.033	NT	-
Winter Squash (V-3)	<u>369</u>	<u>3</u>	0.8	0.034 - 0.037	0.008 - 0.033	NT	-
TOTAL	7,754	168					
Phorate (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	526	0			0.004 ^	NT	-
Potatoes, Frozen	744	0			0.003 ^	0.5	0.2
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.004 - 0.005	NT	-
Watermelon	189	0			0.004 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.012 ^	NT	-
TOTAL	3,142	0					
Phorate oxygen analog (metabolite of Phorate)							
Applesauce	528	0			0.001 ^	NT	-
Spinach	<u>366</u>	<u>0</u>			0.001 ^	NT	-
TOTAL	894	0					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
Phorate sulfone (metabolite of Phorate)							
Applesauce	528	0			0.003 ^	NT	-
Bananas	526	0			0.012 ^	NT	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Potatoes, Frozen	744	0			0.004 ^	0.5	0.2
Spinach	366	0			0.003 ^	NT	-
Sweet Peas, Frozen	528	0			0.010 - 0.012	NT	-
Watermelon	189	0			0.012 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.012 ^	NT	-
TOTAL	3,885	0					
Phorate sulfoxide (metabolite of Phorate)							
Applesauce	528	0			0.009 ^	NT	-
Broccoli	185	0			0.009 ^	NT	-
Cauliflower	558	0			0.009 ^	NT	-
Potatoes, Frozen	528	0			0.006 ^	0.5	0.2
Spinach	366	0			0.009 ^	NT	-
Sweet Peas, Frozen	<u>220</u>	<u>0</u>			0.012 ^	NT	-
TOTAL	2,385	0					
Phosalone (insecticide)							
Applesauce	744	6	0.8	0.004 - 0.010	0.002 - 0.006	10.0	2
Bananas	526	0			0.015 ^	NT	-
Peaches	90	0			0.006 ^	15.0	2
Plums	515	0			0.039 ^	15.0	2
Plums, Dried (Prunes)	224	0			0.039 ^	15.0	2
Raisins	372	0			0.005 - 0.012	20.0	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.009 - 0.015	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.015 ^	NT	-
TOTAL	3,554	6					
Phosmet (insecticide)							
Applesauce	744	13	1.7	0.008 ^	0.005 ^	10	10
Bananas	526	0			0.008 ^	NT	-
Cranberries	316	0			0.005 - 0.012	10	-
Grapefruit	216	0			0.005 ^	5	5
Greens, Collard	69	0			0.008 ^	NT	-
Greens, Kale	61	0			0.008 ^	NT	-
Orange Juice	557	0			0.005 ^	5	5
Peaches	90	34	37.8	0.008 - 0.92	0.005 ^	10	10
Plums	515	80	15.5	0.005 - 0.18	0.003 ^	5	-
Plums, Dried (Prunes)	224	4	1.8	0.005 - 0.16	0.003 ^	5	-
Potatoes, Frozen	744	0			0.005 ^	0.1	0.05
Raisins	372	13	3.5	0.007 - 0.23	0.004 - 0.010	10	10
Spinach	366	0			0.005 ^	NT	-
Sweet Peas, Frozen	744	0			0.005 - 0.017	0.5	-
Watermelon	189	0			0.008 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.012 ^	NT	-
TOTAL	5,994	144					
Phosphamidon (insecticide)							
Applesauce	528	0			0.003 ^	NT	-
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.010 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Spinach	366	0			0.003 ^	NT	-
Sweet Peas, Frozen	528	0			0.014 - 0.015	NT	-
Watermelon	189	0			0.015 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.029 ^	NT	-
TOTAL	3,141	0					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Piperonyl butoxide (insecticide)							
Applesauce	739	0			0.005 - 0.010	8	-
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.005 ^	NT	-
Cauliflower	558	0			0.005 ^	NT	-
Eggplant	740	0			0.012 ^	NT	-
Grapefruit	216	0			0.010 ^	NT	5
Greens, Collard	86	0			0.010 - 0.015	NT	-
Greens, Kale	98	0			0.010 - 0.015	NT	-
Orange Juice	557	0			0.010 ^	8	0.05
Peaches	90	0			0.010 ^	8	-
Plums	515	2	0.4	0.020 - 0.28	0.012 ^	8	-
Plums, Dried (Prunes)	224	10	4.5	0.020 - 0.10	0.012 ^	8	0.2
Potatoes, Frozen	744	2	0.3	0.017 ^	0.010 ^	0.25	0.5
Raisins	372	2	0.5	0.082 - 0.20	0.020 - 0.050	10	0.2
Spinach (V-3)	367	3	0.8	0.008 - 0.040	0.005 - 0.010	NT	50
Summer Squash	186	0			0.010 - 0.025	NT	1
Sweet Peas, Frozen	744	0			0.010 - 0.030	8	-
Watermelon	189	0			0.015 ^	NT	1
Winter Squash (V-4)	369	4	1.1	0.014 ^	0.008 - 0.010	NT	1
TOTAL	7,505	23					
Pirimicarb (insecticide)							
Applesauce	528	0			0.010 ^	NT	1
Bananas	526	0			0.005 ^	NT	-
Broccoli	185	0			0.010 ^	NT	1
Cauliflower	558	0			0.010 ^	NT	1
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale	61	0			0.005 ^	NT	-
Spinach	366	0			0.010 ^	NT	1
Sweet Peas, Frozen	308	0			0.005 ^	NT	0.2
Watermelon	189	0			0.005 ^	NT	-
TOTAL	2,790	0					
Pirimiphos methyl (insecticide)							
Applesauce (V-1)	528	1	0.2	0.004 ^	0.002 ^	NT	-
Bananas	526	0			0.004 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach (V-4)	366	4	1.1	0.004 - 0.018	0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.004 - 0.008	NT	-
Watermelon	189	0			0.004 ^	NT	-
Winter Squash	261	0			0.016 ^	NT	-
TOTAL	3,141	5					
Prallethrin (insecticide)							
Applesauce	216	0			0.010 ^	1.0	-
Bananas	742	0			0.010 ^	1.0	-
Carrots	743	0			0.010 - 0.075	1.0	-
Cranberries	316	0			0.010 - 0.10	1.0	-
Eggplant	740	0			0.028 ^	1.0	-
Grapefruit	743	0			0.010 - 0.064	1.0	-
Greens, Collard	86	0			0.010 ^	1.0	-
Greens, Kale	98	0			0.010 ^	1.0	-
Orange Juice	557	0			0.005 - 0.010	1.0	-
Peaches	90	0			0.005 - 0.010	1.0	-
Plums	515	0			0.028 ^	1.0	-
Plums, Dried (Prunes)	224	0			0.028 ^	1.0	-
Potatoes, Frozen	744	0			0.005 - 0.010	1.0	-
Raisins	372	1	0.3	0.066 ^	0.020 - 0.050	1.0	-
Spinach	145	0			0.010 ^	1.0	-
Summer Squash	186	0			0.010 - 0.033	1.0	-

Pesticide / Commodity	Number of Samples	Samples		Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
		with Detections	% of Samples with Detections				
Sweet Peas, Frozen	524	0			0.010 ^	1.0	-
Watermelon	550	0			0.010 ^	1.0	-
Winter Squash	369	0			0.010 - 0.024	1.0	-
TOTAL	7,960	1					
Prochloraz (fungicide)							
Bananas	526	0			0.002 - 0.005	NT	7
Sweet Peas, Frozen	528	0			0.002 - 0.003	NT	-
Watermelon	189	0			0.002 ^	NT	-
TOTAL	1,243	0					
Procymidone (fungicide)							
Bananas	526	0			0.005 ^	NT	-
Raisins	264	0			0.050 ^	NT	5
Sweet Peas, Frozen	308	0			0.005 ^	NT	1
Watermelon	189	0			0.005 ^	NT	-
TOTAL	1,287	0					
Profenofos (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	526	0			0.011 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.010 - 0.011	NT	-
Watermelon	189	0			0.011 ^	NT	-
TOTAL	2,880	0					
Prometryn (herbicide)							
Applesauce	426	0			0.007 ^	NT	-
Broccoli	185	0			0.007 ^	NT	-
Carrots	708	0			0.0005 - 0.010	0.1	-
Cauliflower	433	0			0.007 ^	NT	-
Orange Juice	44	0			0.010 ^	NT	-
Spinach	323	0			0.007 ^	NT	-
Winter Squash	261	0			0.049 ^	NT	-
TOTAL	2,380	0					
Pronamide (herbicide)							
Applesauce	744	0			0.006 - 0.008	0.1	-
Bananas	526	0			0.008 ^	NT	-
Broccoli	185	0			0.006 ^	NT	-
Cauliflower	557	0			0.006 ^	NT	-
Cranberries	84	4	4.8	0.013 ^	0.008 ^	0.05	-
Peaches	90	0			0.008 ^	0.1	-
Plums	515	0			0.014 ^	0.1	-
Plums, Dried (Prunes)	224	0			0.014 ^	0.1	-
Raisins	372	0			0.016 - 0.030	0.1	-
Spinach	366	0			0.006 ^	NT	-
Sweet Peas, Frozen	744	0			0.005 - 0.008	NT	-
Watermelon	189	0			0.008 ^	NT	-
Winter Squash	261	0			0.018 ^	NT	-
TOTAL	4,857	4					
Propamocarb hydrochloride (fungicide)							
Bananas	526	0			0.010 ^	NT	-
Potatoes, Frozen	22	0			0.001 ^	0.06	-
Sweet Peas, Frozen	286	0			0.010 ^	NT	-
Watermelon	189	0			0.010 ^	1.5	-
TOTAL	1,023	0					

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Propargite (insecticide)							
Applesauce	528	0			0.026 ^	NT	3
Bananas	482	0			0.015 ^	NT	-
Broccoli	185	0			0.026 ^	NT	-
Cauliflower	558	0			0.026 ^	NT	-
Grapefruit	607	0			0.004 - 0.030	5	3
Orange Juice	557	0			0.004 - 0.020	5	0.3
Peaches (V-14)	75	14	18.7	0.033 - 0.53	0.020 ^	NT	4
Potatoes, Frozen	744	0			0.004 - 0.020	0.1	0.1
Raisins	372	117	31.5	0.006 - 1.2	0.004 - 0.050	10	12
Spinach	366	0			0.026 ^	NT	-
Sweet Peas, Frozen	308	0			0.015 ^	NT	-
Watermelon	189	0			0.015 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.008 ^	NT	-
TOTAL	5,232	131					
Propramphos (insecticide)							
Applesauce	744	0			0.002 - 0.003	0.1	-
Bananas	742	0			0.003 - 0.004	0.1	-
Broccoli	155	0			0.002 ^	0.1	-
Carrots	744	0			0.002 - 0.003	0.1	-
Cauliflower	558	0			0.002 ^	0.1	-
Cranberries	316	0			0.003 - 0.008	0.1	-
Grapefruit	216	0			0.003 ^	0.1	-
Greens, Collard	86	0			0.003 - 0.010	0.1	-
Greens, Kale	98	0			0.003 - 0.010	0.1	-
Orange Juice	557	0			0.003 ^	0.1	-
Peaches	90	0			0.003 ^	0.1	-
Plums	515	0			0.008 ^	0.1	-
Plums, Dried (Prunes)	224	0			0.008 ^	0.1	-
Potatoes, Frozen	744	0			0.003 ^	0.1	-
Raisins	372	0			0.006 ^	0.1	-
Spinach	511	0			0.002 - 0.003	0.1	-
Summer Squash	186	0			0.003 - 0.006	0.1	-
Sweet Peas, Frozen	744	0			0.003 - 0.010	0.1	-
Watermelon	550	0			0.003 - 0.006	0.1	-
Winter Squash	<u>369</u>	<u>0</u>			0.003 - 0.008	0.1	-
TOTAL	8,521	0					
Propham (herbicide)							
Watermelon	<u>361</u>	<u>0</u>			0.008 - 0.010	NT	-
TOTAL	361	0					
Propiconazole (fungicide)							
Applesauce	528	0			0.005 ^	NT	-
Bananas	742	0			0.010 - 0.020	0.2	0.1
Broccoli	185	0			0.015 ^	NT	-
Cauliflower	558	0			0.005 ^	NT	-
Cranberries	316	0			0.001 - 0.020	1.0	-
Orange Juice	44	0			0.036 ^	NT	-
Peaches	90	16	17.8	0.033 - 1.4	0.020 - 0.036	1.0	1
Plums	515	8	1.6	0.060 - 0.21	0.036 ^	1.0	1
Plums, Dried (Prunes)	224	0			0.036 ^	1.0	1
Spinach	366	0			0.005 ^	NT	-
Sweet Peas, Frozen	308	0			0.010 ^	NT	-
Watermelon	189	0			0.010 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.016 ^	NT	-
TOTAL	4,326	24					
Pymetrozine (insecticide)							
Broccoli	169	0			0.005 ^	0.5	-
Cauliflower	558	0			0.005 ^	0.5	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Potatoes, Frozen	22	0			0.003 ^	NT	-
Spinach	<u>366</u>	<u>10</u>	2.7	0.008 - 0.046	0.005 ^	0.6	-
TOTAL	1,115	10					
Pyraclostrobin (fungicide)							
Applesauce	744	0			0.001 ^	1.5	-
Bananas	742	0			0.001 - 0.003	0.04	0.02
Broccoli	185	3	1.6	0.002 - 0.006	0.001 ^	5.0	-
Carrots	744	279	37.5	0.0005 - 0.045	0.0005 - 0.001	0.4	0.5
Cauliflower	558	0			0.001 ^	5.0	-
Eggplant	740	0			0.030 ^	1.4	-
Grapefruit	743	20	2.7	0.0003 - 0.002	0.0003 - 0.001	2.0	1
Greens, Collard	86	19	22.1	0.002 - 2.8	0.001 - 0.003	16.0	-
Greens, Kale	98	19	19.4	0.002 - 0.17	0.001 - 0.003	16.0	-
Orange Juice	161	0			0.001 ^	2.0	1
Peaches	90	23	25.6	0.002 - 0.068	0.001 ^	0.9	0.5
Potatoes, Frozen	744	0			0.001 ^	0.04	0.02
Raisins	108	60	55.6	0.002 - 0.13	0.001 ^	7.0	5
Spinach	511	123	24.1	0.002 - 5.4	0.001 ^	29.0	-
Summer Squash	54	7	13.0	0.004 - 0.032	0.001 ^	0.5	0.3
Sweet Peas, Frozen	700	3	0.4	0.002 ^	0.001 - 0.005	0.2	-
Watermelon	370	1	0.3	0.002 ^	0.001 - 0.003	0.5	-
Winter Squash	<u>108</u>	<u>10</u>	9.3	0.002 - 0.012	0.001 ^	0.5	0.3
TOTAL	7,486	567					
Pyraflufen ethyl (herbicide)							
Potatoes, Frozen	<u>528</u>	<u>0</u>			0.036 ^	0.02	-
TOTAL	528	0					
Pyridaben (insecticide, acaricide)							
Applesauce	216	0			0.015 ^	0.5	-
Bananas (V-1)	1	1	100.0	0.025 ^	0.015 ^	NT	-
Cranberries	84	0			0.015 ^	0.5	-
Grapefruit	743	0			0.001 - 0.015	0.5	-
Orange Juice	535	0			0.010 - 0.015	0.5	-
Peaches	90	0			0.010 - 0.015	2.5	-
Plums	515	0			0.041 ^	2.5	-
Plums, Dried (Prunes)	224	1	0.4	0.068 ^	0.041 ^	2.5	-
Raisins	<u>372</u>	<u>1</u>	0.3	0.27 ^	0.030 ^	1.5	-
TOTAL	2,780	3					
Pyrimethanil (fungicide)							
Applesauce	744	48	6.5	0.0005 - 0.19	0.0003 - 0.003	3.0	-
Bananas	742	30	4.0	0.003 - 0.008	0.003 - 0.12	0.10	-
Broccoli	185	0			0.0003 ^	NT	-
Cauliflower	558	0			0.0003 ^	NT	-
Greens, Collard	69	0			0.003 ^	NT	-
Greens, Kale	61	0			0.003 ^	NT	-
Peaches	19	3	15.8	0.14 - 0.42	0.003 ^	3.0	-
Potatoes, Frozen	238	0			0.003 - 0.005	0.05	-
Raisins	372	1	0.3	0.024 ^	0.003 - 0.050	8.0	-
Spinach (V-3)	366	3	0.8	0.0005 - 0.005	0.0003 ^	NT	-
Sweet Peas, Frozen	308	0			0.003 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.003 ^	NT	-
TOTAL	3,851	85					
Pyriproxyfen (insecticide, growth regulator)							
Applesauce	744	0			0.008 - 0.013	0.2	-
Bananas	742	0			0.008 - 0.015	0.10	-
Broccoli	185	0			0.013 ^	0.70	-
Carrots	744	0			0.0004 - 0.008	0.10	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Cauliflower	558	0			0.013 ^	0.70	-
Cranberries	84	0			0.008 ^	0.10	-
Eggplant	740	0			0.012 ^	0.2	-
Grapefruit	216	0			0.008 ^	0.3	0.5
Greens, Collard	17	0			0.008 ^	2.0	-
Greens, Kale	37	0			0.008 ^	2.0	-
Orange Juice	557	0			0.008 ^	0.3	0.5
Peaches	90	0			0.008 ^	1.0	-
Plums	515	2	0.4	0.020 ^	0.012 ^	1.0	-
Plums, Dried (Prunes)	224	0			0.012 ^	1.0	-
Potatoes, Frozen	744	0			0.008 ^	0.10	-
Raisins	372	0			0.016 - 0.030	2.5	-
Spinach	511	0			0.008 - 0.013	0.10	-
Summer Squash	186	0			0.008 - 0.015	0.10	-
Sweet Peas, Frozen	744	0			0.008 - 0.030	0.20	-
Watermelon	550	0			0.004 - 0.015	0.10	-
Winter Squash	108	0			0.008 ^	0.10	-
TOTAL	8,668	2					
Quinoxifen (fungicide)							
Raisins	372	12	3.2	0.0008 - 0.012	0.0005 - 0.030	0.6	-
Watermelon	341	0			0.0005 - 0.004	0.3	-
TOTAL	713	12					
Quintozene - PCNB (fungicide) (parent of HCB, PCA and PCB)							
Applesauce	513	0			0.010 ^	NT	-
Bananas	526	0			0.002 ^	NT	-
Broccoli	185	0			0.010 ^	0.1	0.05
Carrots (V-2)	2	2	100.0	0.012 - 0.079	0.003 ^	NT	-
Cauliflower	558	0			0.003 - 0.040	0.1	-
Greens, Collard	77	0			0.003 - 0.005	0.2	-
Greens, Kale	85	0			0.003 - 0.005	0.2	-
Orange Juice	396	0			0.003 ^	NT	-
Potatoes, Frozen	744	0			0.003 ^	0.1	-
Spinach	366	0			0.003 - 0.019	NT	-
Sweet Peas, Frozen	528	0			0.0009 - 0.002	NT	-
Watermelon	189	0			0.002 ^	NT	-
Winter Squash	261	0			0.004 ^	NT	-
TOTAL	4,430	2					
Resmethrin (insecticide)							
Applesauce	216	0			0.010 ^	3.0	-
Bananas	742	0			0.010 - 0.030	3.0	-
Carrots	743	0			0.010 - 0.030	3.0	-
Cranberries	84	0			0.010 ^	3.0	-
Grapefruit	743	0			0.010 - 0.015	3.0	-
Greens, Collard	86	0			0.010 - 0.033	3.0	-
Greens, Kale	98	0			0.010 - 0.033	3.0	-
Orange Juice	557	0			0.010 ^	3.0	-
Peaches	90	0			0.010 ^	3.0	-
Potatoes, Frozen	744	0			0.010 ^	3.0	-
Raisins	372	0			0.020 - 0.030	3.0	-
Spinach	145	0			0.010 - 0.033	3.0	-
Summer Squash	186	0			0.010 - 0.030	3.0	-
Sweet Peas, Frozen	744	0			0.010 - 0.060	3.0	-
Watermelon	550	0			0.010 - 0.030	3.0	-
Winter Squash	369	0			0.010 - 0.032	3.0	-
TOTAL	6,469	0					
Resmethrin-c (isomer of Resmethrin)							
Applesauce	528	0			0.002 ^	3.0	-
Broccoli	185	0			0.002 ^	3.0	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Cauliflower	558	0			0.002 ^	3.0	-
Spinach	<u>366</u>	<u>0</u>			0.002 ^	3.0	-
TOTAL	1,637	0					
Resmethrin-t (isomer of Resmethrin)							
Applesauce	528	0			0.002 ^	3.0	-
Broccoli	185	0			0.002 ^	3.0	-
Cauliflower	542	0			0.002 ^	3.0	-
Spinach	<u>366</u>	<u>0</u>			0.002 ^	3.0	-
TOTAL	1,621	0					
Sethoxydim (herbicide)							
Cauliflower	466	0			0.001 ^	4.0	-
Spinach	320	0			0.001 ^	4.0	-
Watermelon	<u>20</u>	<u>0</u>			0.050 ^	4.0	-
TOTAL	806	0					
Simazine (herbicide)							
Applesauce	744	0			0.002 ^	0.25	-
Bananas	742	0			0.002 - 0.011	0.2	-
Broccoli	185	0			0.006 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Cranberries	84	0			0.002 ^	0.25	-
Grapefruit	216	0			0.002 ^	0.25	-
Orange Juice	557	0			0.002 - 0.010	0.25	-
Peaches	90	0			0.002 - 0.010	0.25	-
Plums	515	0			0.036 ^	0.25	-
Plums, Dried (Prunes)	224	0			0.036 ^	0.25	-
Raisins	372	0			0.002 - 0.030	0.25	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.009 - 0.011	NT	-
Watermelon	189	0			0.011 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.018 ^	NT	-
TOTAL	5,631	0					
Spinosad Total (insecticide)							
Applesauce	216	0			0.003 ^	0.20	0.1
Carrots	216	0			0.003 ^	0.10	-
Cranberries (X-1)	84	2	2.4	0.013 - 0.025	0.003 ^	0.01	-
Greens, Collard	17	2	11.8	0.015 - 0.032	0.003 ^	10.0	10
Greens, Kale	37	2	5.4	0.005 - 0.030	0.003 ^	10.0	10
Peaches	19	2	10.5	0.005 - 0.025	0.003 ^	0.20	0.2
Potatoes, Frozen	216	0			0.003 ^	0.10	0.01
Raisins	108	0			0.003 ^	0.70	1
Spinach	145	55	37.9	0.005 - 0.65	0.003 - 0.004	8.0	10
Summer Squash	54	0			0.003 ^	0.3	0.2
Sweet Peas, Frozen	216	2	0.9	0.005 ^	0.003 - 0.004	0.3	0.3
Watermelon	181	0			0.003 ^	0.3	0.2
Winter Squash	<u>108</u>	<u>0</u>			0.003 ^	0.3	0.2
TOTAL	1,617	65					
Spinosad A (isomer of Spinosad)							
Bananas	526	0			0.002 ^	0.25	-
Greens, Collard	68	6	8.8	0.003 - 0.084	0.002 ^	10.0	10
Potatoes, Frozen	22	0			0.001 ^	0.10	0.01
Sweet Peas, Frozen	308	0			0.002 ^	0.3	0.3
Watermelon	<u>189</u>	<u>0</u>			0.002 ^	0.3	0.2
TOTAL	1,113	6					
Spinosad D (isomer of Spinosad)							
Bananas	526	0			0.002 ^	0.25	-
Greens, Collard	69	3	4.3	0.002 - 0.028	0.002 ^	10.0	10

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Greens, Kale	61	5	8.2	0.007 - 0.54	0.002 ^	10.0	10
Potatoes, Frozen	22	0			0.001 ^	0.10	0.01
Sweet Peas, Frozen	264	0			0.002 ^	0.3	0.3
Watermelon	189	0			0.002 ^	0.3	0.2
TOTAL	1,131	8					
Spirodiclofen (acaricide)							
Bananas	526	0			0.010 ^	NT	-
Raisins	242	0			0.050 ^	4.0	-
Watermelon	189	0			0.010 ^	NT	-
TOTAL	957	0					
Spiromesifen (insecticide)							
Bananas	526	0			0.002 ^	NT	-
Broccoli	185	2	1.1	0.010 - 0.037	0.006 ^	2.0	-
Cauliflower	46	0			0.006 ^	2.0	-
Greens, Collard	56	0			0.002 ^	12	-
Greens, Kale	53	0			0.002 ^	12	-
Spinach	18	0			0.006 ^	12	-
Sweet Peas, Frozen	308	0			0.002 ^	NT	-
Watermelon	189	0			0.002 ^	0.10	-
TOTAL	1,381	2					
Sulfentrazone (herbicide)							
Potatoes, Frozen	216	1	0.5	0.006 ^	0.002 ^	0.15	-
Sweet Peas, Frozen	216	0			0.002 - 0.004	0.15	-
TOTAL	432	1					
Sulprofos (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
TOTAL	1,637	0					
Tebuconazole (fungicide)							
Applesauce	528	0			0.002 ^	NT	0.5
Bananas	742	0			0.020 - 0.023	0.05	0.05
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Orange Juice	44	0			0.020 ^	NT	-
Peaches	19	2	10.5	0.033 ^	0.020 ^	1.0	1
Raisins	372	6	1.6	0.059 - 0.072	0.040 - 0.050	5.0	3
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.015 - 0.023	NT	-
Watermelon	189	0			0.023 ^	NT	-
TOTAL	3,531	8					
Tebufenozide (insecticide)							
Applesauce	744	0			0.003 ^	1.0	1
Bananas	460	0			0.005 ^	NT	-
Broccoli	185	0			0.003 ^	5.0	0.5
Cauliflower	558	0			0.003 ^	5.0	-
Cranberries	316	20	6.3	0.005 - 0.054	0.003 - 0.051	1.0	0.5
Greens, Collard	86	0			0.003 - 0.005	10.0	10
Greens, Kale	98	0			0.003 - 0.005	10.0	10
Raisins	108	10	9.3	0.005 - 0.039	0.003 ^	3.0	2
Spinach	511	1	0.2	0.049 ^	0.003 ^	10.0	10
Sweet Peas, Frozen	308	0			0.005 ^	NT	-
Watermelon	168	0			0.005 ^	NT	-
TOTAL	3,542	31					

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
Tecnazene (plant growth regulator)							
Bananas	526	0			0.001 ^	NT	-
Broccoli	169	0			0.005 ^	NT	-
Spinach	366	0			0.005 ^	NT	-
Sweet Peas, Frozen	528	0			0.001 - 0.002	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.001 ^	NT	-
TOTAL	1,778	0					
TEPP (insecticide)							
Applesauce	<u>322</u>	<u>0</u>			0.006 ^	NT	-
TOTAL	322	0					
Terbacil (herbicide)							
Applesauce	744	0			0.006 - 0.020	0.3	-
Bananas	526	0			0.015 ^	NT	-
Broccoli	185	0			0.006 ^	5.0	-
Cauliflower	558	0			0.006 ^	NT	-
Peaches	90	0			0.020 ^	0.2	-
Spinach	366	0			0.006 ^	NT	-
Sweet Peas, Frozen	308	0			0.015 ^	NT	-
Watermelon	550	0			0.015 - 0.080	0.4	-
Winter Squash	<u>261</u>	<u>0</u>			0.018 ^	NT	-
TOTAL	3,588	0					
Terbufos (insecticide)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	742	0			0.005 - 0.006	0.025	0.05
Broccoli	155	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Sweet Peas, Frozen	528	0			0.005 - 0.010	NT	-
Watermelon	189	0			0.005 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.015 ^	NT	-
TOTAL	3,327	0					
Terbufos sulfone (metabolite of Terbufos)							
Applesauce	528	0			0.002 ^	NT	-
Bananas	216	0			0.004 ^	0.025	0.05
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.002 ^	NT	-
Spinach	366	0			0.002 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.018 ^	NT	-
TOTAL	2,114	0					
Tetrachlorvinphos (insecticide)							
Applesauce	528	0			0.003 ^	NT	-
Broccoli	185	0			0.010 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Spinach	366	0			0.003 ^	NT	-
Winter Squash	<u>261</u>	<u>0</u>			0.008 ^	NT	-
TOTAL	1,898	0					
Tetradifon (insecticide)							
Applesauce	744	0			0.006 - 0.010	5	-
Bananas	526	0			0.004 ^	NT	-
Broccoli	185	0			0.010 ^	NT	-
Cauliflower	557	0			0.032 ^	NT	-
Grapefruit	743	0			0.006 - 0.007	2	-
Orange Juice	557	0			0.006 - 0.012	2	-
Peaches	90	0			0.006 ^	NT	-
Plums	515	0			0.011 ^	5	-
Plums, Dried (Prunes)	224	0			0.011 ^	5	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Raisins	372	0			0.012 - 0.030	NT	-
Spinach	366	0			0.010 ^	NT	-
Sweet Peas, Frozen	528	0			0.004 - 0.005	NT	-
Watermelon	550	0			0.004 - 0.024	1	-
Winter Squash	<u>369</u>	<u>0</u>			0.006 - 0.028	1	-
TOTAL	6,326	0					
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)							
Applesauce	744	162	21.8	0.033 - 0.17	0.020 - 0.040	25	-
Bananas	526	0			0.075 ^	NT	-
Broccoli	185	0			0.020 ^	2	-
Carrots	216	7	3.2	0.067 - 0.14	0.040 ^	2	-
Cauliflower	558	0			0.020 - 0.13	2	-
Greens, Collard	17	0			0.039 ^	2	-
Greens, Kale	37	0			0.039 ^	2	-
Peaches	68	2	2.9	0.065 - 0.16	0.039 - 0.040	50	-
Potatoes, Frozen	216	0			0.040 ^	25	-
Raisins	108	0			0.080 ^	50	-
Spinach	493	0			0.020 - 0.040	100	-
Summer Squash	38	3	7.9	0.067 - 0.19	0.040 ^	25	-
Sweet Peas, Frozen	524	0			0.040 - 0.075	2	-
Watermelon	370	0			0.040 - 0.080	25	-
Winter Squash	<u>369</u>	<u>0</u>			0.009 - 0.040	25	-
TOTAL	4,469	174					
Tetramethrin (insecticide)							
Bananas	526	0			0.015 ^	NT	-
Sweet Peas, Frozen	308	0			0.015 ^	NT	-
Watermelon	<u>189</u>	<u>0</u>			0.015 ^	NT	-
TOTAL	1,023	0					
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)							
Applesauce	744	289	38.8	0.0002 - 1.2	0.0001 - 0.030	10	3
Bananas	742	486	65.5	0.002 - 0.74	0.001 - 0.030	3	5
Broccoli (V-3)	185	3	1.6	0.0002 ^	0.0001 ^	NT	-
Carrots	744	3	0.4	0.002 - 0.004	0.001 - 0.030	10	-
Cauliflower (V-3)	558	3	0.5	0.0002 - 0.001	0.0001 - 0.0002	NT	-
Grapefruit	216	144	66.7	0.002 - 0.16	0.001 - 0.030	10	10
Greens, Collard	69	0			0.010 ^	NT	-
Greens, Kale	61	0			0.010 ^	NT	-
Orange Juice	557	55	9.9	0.002 - 0.062	0.001 - 0.030	10	10
Peaches (V-3)	31	3	9.7	0.002 - 0.13	0.001 - 0.030	NT	-
Potatoes, Frozen	744	28	3.8	0.002 - 0.15	0.001 - 0.030	10	15
Spinach (V-14)	375	14	3.7	0.0008 - 0.007	0.0005 - 0.001	NT	-
Sweet Peas, Frozen (V-2)	486	2	0.4	0.002 ^	0.001 - 0.050	NT	-
Watermelon (V-2)	190	2	1.1	0.005 - 0.017	0.001 - 0.010	NT	-
Winter Squash	<u>369</u>	<u>1</u>	0.3	0.075 ^	0.001 - 0.045	1.0	-
TOTAL	6,071	1,033					
Thiacloprid (insecticide)							
Applesauce	744	95	12.8	0.0007 - 0.006	0.0004 - 0.001	0.3	-
Broccoli	185	0			0.002 ^	NT	-
Cauliflower	558	0			0.0004 - 0.0005	NT	-
Spinach (V-1)	<u>366</u>	<u>1</u>	0.3	0.0007 ^	0.0004 ^	NT	-
TOTAL	1,853	96					
Thiamethoxam (insecticide) (also a parent of Clothianidin)							
Applesauce	744	0			0.001 - 0.10	0.2	-
Bananas	526	0			0.010 - 0.050	NT	-
Broccoli	185	0			0.10 ^	NT	-
Carrots	744	0			0.001 - 0.003	0.02	-
Cauliflower	542	0			0.060 ^	NT	-

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Cranberries	84	1	1.2	0.003 ^	0.001 ^	0.02	-
Greens, Collard (V-4)	69	4	5.8	0.021 - 0.026	0.010 ^	NT	-
Greens, Kale (V-2)	61	2	3.3	0.050 - 0.058	0.010 ^	NT	-
Peaches	90	0			0.001 ^	0.5	-
Potatoes, Frozen	744	63	8.5	0.002 - 0.015	0.001 ^	0.25	-
Spinach	337	0			0.050 ^	NT	-
Summer Squash	186	10	5.4	0.002 - 0.023	0.001 - 0.040	0.2	-
Sweet Peas, Frozen	700	1	0.1	0.002 ^	0.001 - 0.10	0.02	-
Watermelon	550	23	4.2	0.002 - 0.025	0.001 - 0.050	0.2	-
Winter Squash	108	23	21.3	0.002 - 0.011	0.001 ^	0.2	-
TOTAL	5,670	127					
Thiazopyr (herbicide)							
Grapefruit	527	0			0.001 ^	0.05	-
Orange Juice	396	0			0.010 ^	0.05	-
TOTAL	923	0					
Thiobencarb (herbicide)							
Applesauce	528	0			0.0006 ^	NT	-
Broccoli	185	0			0.0006 ^	7.0	-
Cauliflower	558	0			0.0006 ^	NT	-
Orange Juice	44	0			0.010 ^	NT	-
Spinach	366	0			0.0006 ^	NT	-
TOTAL	1,681	0					
Tri-Allate (herbicide)							
Bananas	526	0			0.015 ^	NT	-
Sweet Peas, Frozen	524	0			0.010 - 0.015	0.05	-
Watermelon	189	0			0.015 ^	NT	-
TOTAL	1,239	0					
Triadimefon (fungicide) (also a parent of Triadimenol)							
Applesauce	744	0			0.0009 - 0.025	1.0	0.5
Bananas	742	0			0.011 - 0.025	NT	-
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.0009 ^	NT	-
Orange Juice	44	0			0.025 ^	NT	-
Raisins	372	0			0.050 ^	1.0	0.5
Spinach	366	0			0.0009 ^	NT	-
Summer Squash	186	0			0.025 - 0.030	0.3	0.1
Sweet Peas, Frozen	528	0			0.011 - 0.012	NT	0.05
Watermelon	550	0			0.011 - 0.025	0.3	0.1
Winter Squash	369	0			0.023 - 0.025	0.3	0.1
TOTAL	4,644	0					
Triadimenol (fungicide) (also a metabolite of Triadimefon)							
Applesauce	216	0			0.015 ^	NT	0.5
Bananas	742	0			0.011 - 0.015	0.2	0.2
Raisins	372	0			0.030 - 0.050	NT	2
Summer Squash	186	0			0.015 - 0.050	NT	2
Sweet Peas, Frozen	308	0			0.011 ^	NT	0.1
Watermelon	370	0			0.011 - 0.015	NT	2
Winter Squash	108	0			0.015 ^	NT	2
TOTAL	2,302	0					
Trifloxystrobin (fungicide)							
Applesauce	744	4	0.5	0.0002 - 0.0006	0.0001 - 0.001	0.5	0.7
Bananas	742	0			0.001 - 0.005	0.10	0.05
Broccoli	185	0			0.0004 ^	NT	0.5
Carrots	744	0			0.0004 - 0.001	0.10	0.1
Cauliflower	558	0			0.0001 - 0.0004	NT	0.5
Grapefruit	743	0			0.0004 - 0.001	0.3	0.5

Pesticide / Commodity	Samples			Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
	Number of Samples	with Detections	% of Samples with Detections				
Greens, Collard	69	0			0.005 ^	NT	-
Greens, Kale (V-1)	61	1	1.6	0.006 ^	0.005 ^	NT	-
Orange Juice	557	0			0.001 - 0.010	0.3	0.5
Peaches	90	1	1.1	0.047 ^	0.0007 - 0.001	2	3
Potatoes, Frozen	744	1	0.1	0.006 ^	0.001 ^	0.04	0.02
Raisins	372	96	25.8	0.002 - 0.18	0.001 - 0.030	5.0	5
Spinach	366	0			0.0001 - 0.0004	NT	-
Summer Squash	186	0			0.001 - 0.010	0.5	0.3
Sweet Peas, Frozen	308	0			0.005 ^	NT	-
Watermelon	550	0			0.001 - 0.005	0.50	0.3
Winter Squash	108	4	3.7	0.002 - 0.048	0.001 - 0.002	0.50	0.3
TOTAL	7,127	107					
Triflumizole (fungicide)							
Applesauce	216	0			0.050 ^	0.5	-
Bananas	526	0			0.003 ^	NT	-
Greens, Collard	86	0			0.003 - 0.050	20	-
Greens, Kale	98	0			0.003 - 0.050	20	-
Raisins	372	0			0.050 - 0.10	2.5	-
Summer Squash	186	0			0.050 ^	0.5	-
Sweet Peas, Frozen	308	0			0.003 ^	NT	-
Watermelon	410	0			0.003 - 0.050	0.5	-
Winter Squash	369	0			0.040 - 0.050	0.5	-
TOTAL	2,571	0					
Trifluralin (herbicide)							
Applesauce	528	0			0.0005 ^	NT	-
Bananas	526	0			0.015 ^	NT	-
Carrots	743	427	57.5	0.002 - 0.19	0.002 - 0.017	1.0	-
Cauliflower	417	1	0.2	0.0008 ^	0.0005 ^	0.05	-
Cranberries	232	0			0.003 ^	NT	-
Grapefruit	743	0			0.001 - 0.017	0.05	-
Greens, Collard	86	0			0.015 - 0.017	0.05	-
Greens, Kale	98	0			0.015 - 0.017	0.05	-
Orange Juice	557	0			0.017 ^	0.05	-
Peaches	90	0			0.017 ^	0.05	-
Plums	515	0			0.021 ^	0.05	-
Plums, Dried (Prunes)	224	0			0.021 ^	0.05	-
Potatoes, Frozen	744	0			0.017 ^	0.05	-
Raisins	372	0			0.030 - 0.034	0.05	-
Spinach	511	6	1.2	0.0008 - 0.006	0.0005 - 0.017	0.05	-
Summer Squash	186	0			0.017 - 0.030	0.05	-
Sweet Peas, Frozen	744	0			0.015 - 0.017	0.05	-
Watermelon	550	0			0.015 - 0.017	0.05	-
Winter Squash	369	0			0.008 - 0.017	0.05	-
TOTAL	8,235	434					
Triforine (fungicide)							
Applesauce	528	0			0.003 ^	NT	2
Broccoli	185	0			0.003 ^	NT	-
Cauliflower	558	0			0.003 ^	NT	-
Spinach	366	0			0.003 ^	NT	-
TOTAL	1,637	0					
Vinclozolin (fungicide)							
Applesauce	528	0			0.004 ^	NT	1
Bananas	526	0			0.003 ^	NT	-
Broccoli	185	0			0.004 ^	NT	-
Cauliflower	558	0			0.004 ^	NT	1
Cranberries	232	0			0.050 ^	NT	-
Orange Juice	396	0			0.003 ^	NT	-
Peaches	71	0			0.008 ^	NT	5

Pesticide / Commodity	Number of Samples	Samples		Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm	Codex MRL/EMRL, ppm
		with Detections	% of Samples with Detections				
Raisins	372	0			0.014 - 0.050	6.0	5
Spinach	366	0			0.004 ^	NT	-
Sweet Peas, Frozen	528	0			0.003 ^	NT	1
Watermelon	189	0			0.003 ^	NT	-
Winter Squash	261	0			0.014 ^	NT	-
TOTAL	4,212	0					
Zoxamide (fungicide)							
Raisins	264	0			0.050 ^	15.0	-
Summer Squash	132	0			0.050 ^	1.0	-
Watermelon	180	0			0.025 ^	1.0	-
TOTAL	576	0					

Many of the listed tolerances and MRLs are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions and to Codex for the complete listing of compounds in MRL expressions.

NOTES

^ Only one distinct detected concentration or LOD value was reported for the pair.

NT = No tolerance level was set for that pesticide/commodity pair.

AL = Numbers shown are Action Levels established by FDA and Codex Extraneous Maximum Residue Levels (EMRLs) for some pesticides. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.

SU Safe use in spot and/or crack and crevice treatments.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences.

(X) = Residue was found which exceeds EPA tolerance or FDA action level. Following "X" are the number of occurrences.

** = Previously reported as lambda cyhalothrin total, which included lambda cyhalothrin (a 1:1 mixture of the cis-(1R,3R),S-enantiomer and the cis-(1S,3S),R-enantiomer) as well as R157836 (a 1:1 mixture of the cis-(1S,3S),S-enantiomer and the cis-(1R,3R),R-enantiomer).

Appendix C

Distribution of Residues by Pesticide in Peanut Butter

Appendix C shows residue detections for all peanut butter compounds tested, including range of values detected, range of Limits of Detection (LODs), and Environmental Protection Agency (EPA) and Codex Maximum Residue Limit/ Extraneous Maximum Residue Limit (MRL/EMRL) tolerance references for each pair.

In 2006, PDP analyzed 739 peanut butter samples. A total of 223 samples (30 percent) were reported with residue detections. All residue detections were much lower than the established tolerances.

See Appendix B for definition of ALs and MRLs.

MRLs/EMRLs shown in this appendix are from the Codex Alimentarius: *Proc. of Codex Committee on Pesticide Residues*, 39th Session, May 7-12, 2007, Beijing, China. Only Codex MRLs (CXLs) are listed.

EPA tolerances as published in 40 CFR Part 180 are expressed in parts per million (ppm). Because peanut butter residues are expressed in parts per billion (ppb), EPA Tolerances and Codex MRLs have been multiplied by a factor of 1,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA and Codex.

The information herein is only intended to be an initial reference. Readers are reminded that international regulations and MRLs can change and that it is important that information obtained from this table be verified with knowledgeable parties in the market of interest prior to sale or shipment of exports.

APPENDIX C. DISTRIBUTION OF RESIDUES BY PESTICIDE IN PEANUT BUTTER

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Alachlor	H	739				3.0 ^	50	-
Aldicarb	I	668				10 ^	50	20
Aldicarb sulfone	IM	706				10 ^	50	20
Aldicarb sulfoxide	IM	662				10 ^	50	20
Aldrin	I	689				6.0 ^	50 AL	-
Azoxystrobin	F	739				1.0 ^	200	-
Bendiocarb	I	713				3.0 ^	SU	-
Benfluralin	H	719				3.0 ^	50	-
Benoxacor	S	739				3.0 ^	10	-
Bifenthrin	I	739				13 ^	50	-
Boscalid	F	724				10 ^	50	-
Carbaryl	I	739				10 ^	5,000	-
Carboxin	F	734	1	0.1	17 ^	10 ^	200	-
Carfentrazone ethyl	H	719				1.0 ^	100	-
Chlordane cis	I	739				3.0 ^	100 AL	20
Chlordane trans	I	739				36 ^	100 AL	20
Chlorpyrifos	I	739				27 ^	200	-
Cyfluthrin	I	739				75 ^	10	-
Cyhalothrin, Total (Cyhalothrin-L + R157836)	I	739				12 ^	50	-
Cypermethrin	I	739				100 ^	NT	50
DDD p,p'	IM	739				14 ^	200 AL	-
DDE p,p'	IM	739	27	3.7	7.0 ^	4.0 ^	200 AL	-
DDT p,p'	I	734				6.0 ^	200 AL	-
Deltamethrin (includes parent Tralomethrin)	I	734				50 ^	50	-
Dichlorvos (DDVP)	I	699				7.0 ^	500 4	-
Dieldrin	I	738				3.0 ^	50 AL	-
Dimethenamid	H	739				3.0 ^	10	10
Disulfoton	I	619				10 ^	750	100
Disulfoton sulfoxide	IM	734				55 ^	750	100
Esfenvalerate+Fenvalerate Total	I	661				20 ^	50	100
Ethalfuralin	H	719				2.0 ^	50	-

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Ethoprop	I	739				6.0 ^	20	-
Fenamiphos	I	739				3.0 ^	20	50
Fenamiphos sulfone	IM	719				3.0 ^	20	50
Fenamiphos sulfoxide	IM	635				4.0 ^	20	50
Fenoxaprop ethyl	H	739				4.0 ^	50	-
Fenpropathrin	I	739				50 ^	10	-
Fluazinam	F	701	2	0.3	17 ^	10 ^	20	-
Fludioxonil	F	739				9.0 ^	10	-
Flumioxazin	H	720				5.0 ^	20	-
Flutolanil	F	739				7.0 ^	500	-
Hexachlorobenzene (HCB)	FM	719				3.0 ^	1,000	-
Hydroprene	R	739				8.0 ^	200	-
Indoxacarb	I	739				10 ^	10	20
Iprodione	F	739				50 ^	500	-
Lactofen	H	736				9.0 ^	10	-
Malathion	I	739	1	0.1	17 ^	10 ^	8,000	-
Malathion oxygen analog	IM	739				10 ^	NT	-
Metalaxyl	F	739				20 ^	200	100
Methamidophos	I	700				10 ^	200	-
Methomyl	I	674				10 ^	100	-
Metolachlor	H	739				10 ^	500	-
Norflurazon	H	739				6.0 ^	50	-
Norflurazon desmethyl	HM	739				11 ^	50	-
Oxamyl	I	739				10 ^	200	50
Parathion methyl	I	739				25 ^	1,000	-
Parathion methyl oxygen analog	IM	655				5.0 ^	NT	-
Pendimethalin	H	739				20 ^	100	-
Pentachloroaniline (PCA)	FM	739	7	0.9	25 ^	15 ^	1,000	-
Pentachlorobenzene (PCB)	FM	719	1	0.1	27 ^	16 ^	1,000	-
Pentachlorophenyl methyl sulfide	FM	739				7.0 ^	1,000	-
Phorate	I	719				10 ^	100	-
Phorate sulfone	IM	739				10 ^	100	-
Phorate sulfoxide	IM	720				44 ^	100	-

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Piperonyl butoxide	I	739	200	27.1	33 - 136	20 ^	8,000	1,000
Prallethrin	I	718				50 ^	1,000	-
Propargite	I	659				8.0 ^	100	100
Propetamphos	I	720				2.0 ^	100	-
Propiconazole	F	739				45 ^	200	100
Pyraclostrobin	F	733				1.0 ^	50	20
Pyriproxyfen	I	739				1.0 ^	100	-
Quintozene (PCNB)	F	739	4	0.5	10 - 162	6.0 ^	1,000	500
Resmethrin	I	739				9.0 ^	3,000	-
Spinosad A	I	739				15 ^	20	-
Tebuconazole	F	688				10 ^	100	50
Trifloxystrobin	F	733				1.0 ^	50	20
Trifluralin	H	739				2.0 ^	50	-

Many of the listed tolerances and MRLs are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions and to Codex for the complete listing of compounds in MRL expressions.

NOTES

* = EPA Tolerances and Codex MRLs have been multiplied by a factor of 1000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA and Codex.

^ = Only one distinct detected concentration or LOD value was reported for the pair.

NT = No tolerance level was set for that pesticide/commodity pair.

AL = Numbers shown are Action Levels established by FDA and Codex Extraneous Maximum Residue Levels (EMRLs) for some pesticides. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

S = Herbicide Safener

Appendix D

Distribution of Residues by Pesticide in Wheat

Appendix D shows residue detections for all wheat compounds tested, including range of values detected, range of Limits of Detection (LODs), and Environmental Protection Agency (EPA) and Codex Maximum Residue Limit/Extraneous Maximum Residue Limit (MRL/EMRL) tolerance references for each pair.

In 2006, PDP analyzed 687 wheat samples. A total of 475 samples (69 percent) were reported with residue detections. All but one of the residue detections were much lower than the established tolerances.

See Appendix B for definition of ALs and MRLs.

MRLs/EMRLs shown in this appendix are from the Codex Alimentarius: *Proc. of Codex Committee on Pesticide Residues*, 39th Session, May 7-12, 2007, Beijing, China. Only Codex MRLs (CXLs) are listed.

EPA tolerances as published in 40 CFR Part 180 are expressed in parts per million (ppm). Because wheat residues are expressed in parts per billion (ppb), EPA Tolerances and Codex MRLs have been multiplied by a factor of 1,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than than originally expressed by EPA and Codex.

The information herein is only intended to be an initial reference. Readers are reminded that international regulations and MRLs can change and that it is important that information obtained from this table be verified with knowledgeable parties in the market of interest prior to sale or shipment of exports.

APPENDIX D. DISTRIBUTION OF RESIDUES BY PESTICIDE IN WHEAT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Acetochlor	H	687				3.0 ^	20	-
Allethrin	I	667				3.0 ^	2,000	-
Atrazine	H	687	13	1.9	5.0 ^	3.0 ^	250	-
Bromuconazole 46	FM	687				6.0 ^	NT	-
Bromuconazole 47	FM	687				4.0 ^	NT	-
Carbaryl	I	687				6.0 ^	3,000	2,000
Carbofuran (X-1)	I	667	1	0.1	169 ^	34 ^	100	-
Carboxin	F	687				3.0 ^	200	-
Carfentrazone ethyl	H	687				3.0 ^	100	-
Chlorpyrifos	I	687	4	0.6	10 ^	6.0 ^	500	500
Chlorpyrifos methyl	I	687	115	16.7	32 - 1081	19 ^	6,000	10,000
Clodinafop propargyl	H	667				3.0 ^	100	-
Cyanazine	H	667				5.0 ^	NT	-
Cyfluthrin	I	682	8	1.2	38 - 914	23 ^	4,000	-
Cyhalothrin, Total (Cyhalothrin-L + R157836)	I	665	7	1.1	7.0 ^	4.0 ^	50	-
Cyproconazole	F	687				11 ^	NT	-
DDE p,p'	IM	687				3.0 ^	500	100
Diazinon	I	687				3.0 ^	NT	-
Diazinon oxygen analog	IM	665				6.0 ^	NT	-
Diclofop methyl	H	687				3.0 ^	100	-
Dieldrin	I	687				6.0 ^	20 AL	20
Difenoconazole	F	668	1	0.1	7.0 ^	4.0 ^	100	-
Dimethoate	I	687				28 ^	40	50
Dimethomorph	F	687				19 ^	50	-
Disulfoton	I	687				3.0 ^	300	200
Disulfoton sulfone	IM	687				13 ^	300	200
Endosulfan I	I	687				6.0 ^	100	200
Endosulfan II	IM	687				6.0 ^	100	200
Endosulfan sulfate	IM	687				3.0 ^	100	200
Epoxiconazole	F	687				4.0 ^	NT	-
Etridiazole	F	667				10 ^	50	-
Fenbuconazole	F	667				18 ^	NT	100

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Fenitrothion	I	687				6.0 ^	NT	10,000
Fludioxonil	F	687				9.0 ^	20	50
Flufenacet	H	687				6.0 ^	1,000	-
Fluridone	H	667				3.0 ^	100	-
Heptachlor epoxide	IM	687				3.0 ^	NT	20
Hexaconazole	F	687				4.0 ^	NT	-
3-Hydroxycarbofuran	IM	476				6.0 ^	200	-
Imazalil	F	687	1	0.1	47 ^	28 ^	50	10
Lindane (BHC gamma)	I	687				6.0 ^	100 AL	10
Linuron	H	687				25 ^	250	-
Malathion	I	687	433	63.0	5.0 - 2370	3.0 ^	8,000	500
Malathion oxygen analog	IM	687				5.0 ^	NT	-
Metalaxyl	F	687				6.0 ^	200	50
Methoprene (V-18)	R	667	18	2.7	22 - 362	13 ^	NT	10,000
Methoxychlor p,p' (V-29)	IM	687	29	4.2	8.0 ^	5.0 ^	NT	-
Metolachlor	H	687				3.0 ^	100	-
Metribuzin	H	531				6.0 ^	750	-
Myclobutanil	F	687				13 ^	30	-
Omethoate	IM	687				3.0 ^	40	-
Parathion ethyl	I	687				5.0 ^	1,000	-
Parathion oxygen analog	IM	687				19 ^	NT	-
Phorate	I	343				8.0 ^	50	50
Phorate sulfone	IM	687				5.0 ^	50	50
Piperonyl butoxide	I	687	16	2.3	10 ^	6.0 ^	20,000	30,000
Pirimiphos methyl (V-11)	I	687	11	1.6	5.0 - 12	3.0 ^	NT	7,000
Propanil	H	687	10	1.5	8.0 ^	5.0 ^	200	-
Propiconazole	F	687				11 ^	100	50
RH 9129 (fenbuconazole metab.)	FM	687				5.0 ^	NT	-
RH 9130 (fenbuconazole metab.)	FM	687				4.0 ^	NT	-
TCMTB	F	607				25 ^	100	-
Tebuconazole	F	687				10 ^	50	50
Tetraconazole	F	687				4.0 ^	NT	-
Thiabendazole	F	582				13 ^	1,000	-

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Thiamethoxam	I	667				3.0 ^	20	-
Tri Allate	H	687				6.0 ^	50	-
Triadimefon	F	687				3.0 ^	1,000	100
Triadimenol	F	559				6.0 ^	50	200
Trifluralin	H	687	2	0.3	10 ^	6.0 ^	50	-
Triticonazole	F	687				4.0 ^	50	-

Many of the listed tolerances and MRLs are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions and to Codex for the complete listing of compounds in MRL expressions.

NOTES

* = EPA Tolerances and Codex MRLs have been multiplied by a factor of 1000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA and Codex.

^ = Only one distinct detected concentration or LOD value was reported for the pair.

NT = No tolerance level was set for that pesticide/commodity pair.

AL = Numbers shown are Action Levels established by FDA and Codex Extraneous Maximum Residue Levels (EMRLs) for some pesticides. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.

(X) = Residue was found which exceeds EPA tolerance. Following "X" are the number of occurrences.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences.

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

Appendix E

Distribution of Residues by Pesticide in Poultry

Appendix E shows residue detections for all poultry compounds tested, including range of values detected, range of Limits of Detection (LODs), and Environmental Protection Agency (EPA) and Codex Maximum Residue Limit/Extraneous Maximum Residue Limit (MRL/EMRL) tolerance references for each pair.

In 2006, PDP analyzed poultry tissue samples which included 655 breast samples and 655 thigh samples, primarily from young chickens. A total of 40 breast samples (6 percent) and 54 thigh samples (8 percent) were reported with residue detections. None of the poultry samples contained residues that exceeded the established EPA tolerance.

See Appendix B for definition of ALs and MRLs.

MRLs/EMRLs shown in this appendix are from the Codex Alimentarius: *Proc. of Codex Committee on Pesticide Residues*, 39th Session, May 7-12, 2007, Beijing, China. Only Codex MRLs (CXLs) are listed.

EPA tolerances as published in 40 CFR Part 180 are expressed in parts per million (ppm). Because poultry residues are expressed in parts per billion (ppb), EPA Tolerances and Codex MRLs have been multiplied by a factor of 1,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA and Codex.

The information herein is only intended to be an initial reference. Readers are reminded that international regulations and MRLs can change and that it is important that information obtained from this table be verified with knowledgeable parties in the market of interest prior to sale or shipment of exports.

APPENDIX E. DISTRIBUTION OF RESIDUES BY PESTICIDE IN POULTRY

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Acephate	I							
Poultry, Breast		655				15 ^	100	10
Poultry, Thigh		655				15 ^	100	10
Acetamiprid	I							
Poultry, Breast	I	655				6.9 ^	10	-
Poultry, Thigh	I	655				6.9 ^	10	-
Alachlor	H							
Poultry, Breast		655				1.5 ^	20	-
Poultry, Thigh		655				1.5 ^	20	-
Aldicarb	I							
Poultry, Breast		655				0.21 ^	NT	10
Poultry, Thigh		655				0.21 ^	NT	10
Aldicarb sulfone	IM							
Poultry, Breast		655				1.2 ^	NT	10
Poultry, Thigh		655				1.2 ^	NT	10
Aldicarb sulfoxide	IM							
Poultry, Breast		655				6.8 ^	NT	10
Poultry, Thigh		655				6.8 ^	NT	10
Atrazine	H							
Poultry, Breast		655				0.30 ^	NT	-
Poultry, Thigh		655				0.30 ^	NT	-
Azoxystrobin	F							
Poultry, Breast		655				3.0 ^	NT	-
Poultry, Thigh		655				3.0 ^	NT	-
Benoxacor	S							
Poultry, Breast		655				0.30 ^	10	-
Poultry, Thigh		655				0.30 ^	10	-
Bifenthrin	I							
Poultry, Breast		655				0.90 ^	50	50
Poultry, Thigh		655				0.90 ^	50	50
Boscalid	F							
Poultry, Breast		655	1	0.2	1.5 ^	0.30 ^	50	-
Poultry, Thigh		655				0.30 ^	50	-
Buprofezin	I							
Poultry, Breast		655				1.8 ^	NT	-
Poultry, Thigh		655				1.8 ^	NT	-
Carbaryl	I							
Poultry, Breast		655	9	1.4	0.50 - 1.5	0.30 ^	5,000	50
Poultry, Thigh		655	15	2.3	0.50 - 2.1	0.30 ^	5,000	50
Carbofuran	I							
Poultry, Breast		655				0.15 ^	NT	-
Poultry, Thigh		655				0.15 ^	NT	-

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Carboxin	F							
Poultry, Breast		655				1.5 ^	100	-
Poultry, Thigh		655				1.5 ^	100	-
Chloroneb	F							
Poultry, Breast		655				1.8 ^	NT	-
Poultry, Thigh		655				1.8 ^	NT	-
Chlorpyrifos	I							
Poultry, Breast		655				1.5 ^	100	10
Poultry, Thigh		655				1.5 ^	100	10
Chlorpyrifos methyl	I							
Poultry, Breast		655				0.45 ^	500	500
Poultry, Thigh		655				0.45 ^	500	500
Clofentezine	I							
Poultry, Breast		655				0.45 ^	NT	50
Poultry, Thigh		655				0.45 ^	NT	50
Cyfluthrin	I							
Poultry, Breast		655				2.4 ^	10	-
Poultry, Thigh		655				2.4 ^	10	-
Cyhalothrin, Lambda	I							
Poultry, Breast		655				0.90 ^	10	-
Poultry, Thigh		655				0.90 ^	10	-
Cypermethrin	I							
Poultry, Breast		655				3.0 ^	50	50
Poultry, Thigh		655				3.0 ^	50	50
DDE p,p'	IM							
Poultry, Breast		655	9	1.4	0.75 - 2.7	0.45 ^	5,000	300
Poultry, Thigh		655	20	3.1	0.75 - 3.6	0.45 ^	5,000	300
Deltamethrin (includes parent Tralomethrin)	I							
Poultry, Breast		655				4.5 ^	20	100
Poultry, Thigh		655				4.5 ^	20	100
Dichlorvos (DDVP)	I							
Poultry, Breast		655				1.5 ^	50	50
Poultry, Thigh		655				1.5 ^	50	50
Difenoconazole	F							
Poultry, Breast		655				2.4 ^	50	-
Poultry, Thigh		655				2.4 ^	50	-
Diffubenzuron	I							
Poultry, Breast		655				0.30 ^	50	50
Poultry, Thigh		655				0.30 ^	50	50
Dimethoate	I							
Poultry, Breast		655				3.0 ^	20	50
Poultry, Thigh		655				3.0 ^	20	50

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Diphenamid	H							
Poultry, Breast		655				0.60 ^	NT	-
Poultry, Thigh		655				0.60 ^	NT	-
Esfenvalerate+Fenvalerate								
Total	I							
Poultry, Breast		655				1.5 ^	50	1,000
Poultry, Thigh		655				1.5 ^	50	1,000
Ethalfuralin	H							
Poultry, Breast		655				0.60 ^	NT	-
Poultry, Thigh		655				0.60 ^	NT	-
Ethofumesate	H							
Poultry, Breast		655				0.90 ^	NT	-
Poultry, Thigh		655				0.90 ^	NT	-
Etridiazole	F							
Poultry, Breast		655				0.90 ^	100	-
Poultry, Thigh		655				0.90 ^	100	-
Fenarimol	F							
Poultry, Breast		655				0.90 ^	NT	-
Poultry, Thigh		655				0.90 ^	NT	-
Fenbuconazole	F							
Poultry, Breast		655				1.2 ^	NT	50
Poultry, Thigh		655				1.2 ^	NT	50
Fenoxaprop ethyl	H							
Poultry, Breast		655				0.90 ^	NT	-
Poultry, Thigh		655				0.90 ^	NT	-
Fenpropathrin	I							
Poultry, Breast		655				0.90 ^	50	20
Poultry, Thigh		655				0.90 ^	50	20
Fipronil	I							
Poultry, Breast		655	1	0.2	1.0 ^	0.60 ^	20	10
Poultry, Thigh		655	2	0.3	1.0 - 1.2	0.60 ^	20	10
Flufenacet	H							
Poultry, Breast		655				4.5 ^	NT	-
Poultry, Thigh		655				4.5 ^	NT	-
Fluridone	H							
Poultry, Breast		655				0.90 ^	50	-
Poultry, Thigh		655				0.90 ^	50	-
Fluroxypyr 1-methylheptyl ester	H							
Poultry, Breast		655				0.90 ^	NT	-
Poultry, Thigh		655				0.90 ^	NT	-
Flutolanil	F							
Poultry, Breast		655				0.30 ^	50	50
Poultry, Thigh		655				0.30 ^	50	50

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Fluvalinate	I							
Poultry, Breast		655				1.5 ^	NT	-
Poultry, Thigh		655				1.5 ^	NT	-
Heptachlor	I							
Poultry, Breast		655				0.45 ^	200	200
Poultry, Thigh		655				0.45 ^	200	200
Heptachlor epoxide	IM							
Poultry, Breast		655				3.0 ^	200	200
Poultry, Thigh		655				3.0 ^	200	200
Hexazinone	H							
Poultry, Breast		655				2.4 ^	NT	-
Poultry, Thigh		655				2.4 ^	NT	-
Hydroprene	R							
Poultry, Breast		655				1.5 ^	200	-
Poultry, Thigh		655				1.5 ^	200	-
3-Hydroxycarbofuran	IM							
Poultry, Breast		655				0.60 ^	NT	-
Poultry, Thigh		655				0.60 ^	NT	-
Imidacloprid	I							
Poultry, Breast		655				1.5 ^	50	20
Poultry, Thigh		655				1.5 ^	50	20
Indoxacarb	I							
Poultry, Breast		655				0.15 ^	NT	10
Poultry, Thigh		655				0.15 ^	NT	10
Iprodione	F							
Poultry, Breast		655				5.4 ^	1,000	-
Poultry, Thigh		655				5.4 ^	1,000	-
Isoxaflutole	H							
Poultry, Breast		655				1.8 ^	200	-
Poultry, Thigh		655				1.8 ^	200	-
Malathion	I							
Poultry, Breast		655				1.5 ^	4,000	-
Poultry, Thigh		655				1.5 ^	4,000	-
Malathion oxygen analog	IM							
Poultry, Breast		655				7.5 ^	NT	-
Poultry, Thigh		655				7.5 ^	NT	-
Metalaxyl	F							
Poultry, Breast		655				1.2 ^	50	-
Poultry, Thigh		655				1.2 ^	50	-
Methamidophos	I							
Poultry, Breast		655				6.0 ^	100	10
Poultry, Thigh		655				6.0 ^	100	10

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Methoxyfenozone	I							
Poultry, Breast		655				0.15 ^	20	10
Poultry, Thigh		655				0.15 ^	20	10
Metolachlor	H							
Poultry, Breast		655				0.90 ^	40	-
Poultry, Thigh		655				0.90 ^	40	-
Metribuzin	H							
Poultry, Breast		655				4.5 ^	700	-
Poultry, Thigh		655				4.5 ^	700	-
MGK-264	I							
Poultry, Breast (V-13)		655	13	2.0	5.0 - 81	3.0 ^	NT	-
Poultry, Thigh (V-14)		655	14	2.1	5.0 - 221	3.0 ^	NT	-
MGK-326 (dipropyl isocinchomerate)	I							
Poultry, Breast		655				0.90 ^	NT	-
Poultry, Thigh		655				0.90 ^	NT	-
Mirex	I							
Poultry, Breast		655				0.90 ^	NT	-
Poultry, Thigh		655				0.90 ^	NT	-
Myclobutanil	F							
Poultry, Breast		655				1.8 ^	20	10
Poultry, Thigh		655				1.8 ^	20	10
1-Naphthol	IM							
Poultry, Breast		655				1.5 ^	5,000	-
Poultry, Thigh		655	1	0.2	2.5 ^	1.5 ^	5,000	-
Nitrapyrin	N							
Poultry, Breast		655				0.90 ^	50	-
Poultry, Thigh		655				0.90 ^	50	-
Norflurazon	H							
Poultry, Breast		655				0.30 ^	100	-
Poultry, Thigh		655				0.30 ^	100	-
Omethoate	IM							
Poultry, Breast		655				6.0 ^	20	-
Poultry, Thigh		655				6.0 ^	20	-
Oxadiazon	H							
Poultry, Breast		655				0.60 ^	NT	-
Poultry, Thigh		655				0.60 ^	NT	-
Oxyfluorfen	H							
Poultry, Breast		655				0.60 ^	50	-
Poultry, Thigh		655				0.60 ^	50	-
Permethrin Total	IM							
Poultry, Breast		655				3.0 ^	50	100
Poultry, Thigh		655				3.0 ^	50	100

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Piperonyl butoxide	I							
Poultry, Breast		655	15	2.3	7.5 - 85	4.5 ^	3,000	7,000
Poultry, Thigh		655	22	3.4	7.5 - 218	4.5 ^	3,000	7,000
Prallethrin	I							
Poultry, Breast		655				5.4 ^	1,000	-
Poultry, Thigh		655				5.4 ^	1,000	-
Profenofos	I							
Poultry, Breast		655				3.0 ^	NT	50
Poultry, Thigh		655				3.0 ^	NT	50
Pronamide	H							
Poultry, Breast		655				0.30 ^	20	-
Poultry, Thigh		655				0.30 ^	20	-
Propachlor	H							
Poultry, Breast		655				3.6 ^	20	-
Poultry, Thigh		655				3.6 ^	20	-
Propanil	H							
Poultry, Breast		655				1.2 ^	100	-
Poultry, Thigh		655				1.2 ^	100	-
Propargite	I							
Poultry, Breast		655				3.6 ^	100	100
Poultry, Thigh		655				3.6 ^	100	100
Propetamphos	I							
Poultry, Breast		655				1.5 ^	100	-
Poultry, Thigh		655				1.5 ^	100	-
Propiconazole	F							
Poultry, Breast		655				1.5 ^	NT	50
Poultry, Thigh		655				1.5 ^	NT	50
Pyrethrins	I							
Poultry, Breast		655	1	0.2	100 ^	60 ^	200	-
Poultry, Thigh		655	1	0.2	100 ^	60 ^	200	-
Pyridaben	I							
Poultry, Breast		655				1.8 ^	NT	-
Poultry, Thigh		655				1.8 ^	NT	-
Pyriproxyfen	I							
Poultry, Breast		655				1.2 ^	100	-
Poultry, Thigh		655				1.2 ^	100	-
Resmethrin-t	IM							
Poultry, Breast		655				1.5 ^	3,000	-
Poultry, Thigh		655				1.5 ^	3,000	-
Sethoxydim	H							
Poultry, Breast		655				0.30 ^	200	-
Poultry, Thigh		655				0.30 ^	200	-

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
Simazine	H							
Poultry, Breast		655				2.0 ^	20	-
Poultry, Thigh		655				2.0 ^	20	-
Tebufenozide	I							
Poultry, Breast		655				0.15 ^	NT	20
Poultry, Thigh		655				0.15 ^	NT	20
Tetrachlorvinphos	I							
Poultry, Breast		655				1.2 ^	750	-
Poultry, Thigh		655				1.2 ^	750	-
Tetraconazole	F							
Poultry, Breast		655				2.4 ^	10	-
Poultry, Thigh		655				2.4 ^	10	-
Tetrahydrophthalimide (THPI)	FM							
Poultry, Breast		655				6.0 ^	NT	-
Poultry, Thigh		655				6.0 ^	NT	-
Thiabendazole	F							
Poultry, Breast		655				3.0 ^	100	50
Poultry, Thigh		655	1	0.2	5.0 ^	3.0 ^	100	50
Thiobencarb	H							
Poultry, Breast		655				0.60 ^	200	-
Poultry, Thigh		655				0.60 ^	200	-
Triadimefon	F							
Poultry, Breast		655				1.5 ^	40	50
Poultry, Thigh		655				1.5 ^	40	50
Triadimenol	F							
Poultry, Breast		655				2.4 ^	10	50
Poultry, Thigh		655				2.4 ^	10	50
Trifloxystrobin	F							
Poultry, Breast		655				0.90 ^	40	40
Poultry, Thigh		655				0.90 ^	40	40
Triflumizole	F							
Poultry, Breast		655				0.90 ^	50	-
Poultry, Thigh		655				0.90 ^	50	-
Vinclozolin	F							
Poultry, Breast		655				0.30 ^	100	-
Poultry, Thigh		655				0.30 ^	100	-

Many of the listed tolerances and MRLs are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions and to Codex for the complete listing of compounds in MRL expressions.

NOTES

* = EPA Tolerances and Codex MRLs have been multiplied by a factor of 1000 as a basis for comparison using a single scale.

There is no intention to imply any more exactness in the value than that originally expressed by EPA and Codex.

^ = Only one distinct detected concentration or LOD value was reported for the pair.

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppb	Range of LODs, ppb	EPA Tolerance Level, ppb*	Codex MRL/EMRL, ppb*
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NT = No tolerance level was set for that pesticide/commodity pair.

AL = Numbers shown are Action Levels established by FDA and Codex Extraneous Maximum Residue Levels (EMRLs) for some pesticides. Under FQPA, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences.

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

N = Nitrification Inhibitor

R = Insect Growth Regulator

S = Herbicide Safener

Appendix F

Distribution of Residues by Pesticide in Bottled Water

Appendix F shows residue detections for all bottled water compounds tested, including range of values detected and range of Limits of Detection (LODs) for each pair. The Food and Drug Administration (FDA) Standards of Quality (SOQ) values for bottled water are also shown.

In 2006, PDP analyzed 367 bottled water samples. A total of 70 samples (19%) were reported with residue detections. Twelve different residues from six different pesticides were detected. Most samples with detectable residues contained only a single pesticide or metabolite. A few of the samples contained multiple residues with a maximum of four detectable pesticides within a given sample. All detections were well below established FDA SOQs.

Bottled water is regulated by the FDA and State regulatory agencies for the same list of pesticides currently regulated in public drinking water by EPA. The Safe Drinking Water Act amendments of 1996 require that FDA consider applicability of all EPA MCLs and monitoring for bottled water. FDA has adopted EPA's MCLs for municipal water systems as its SOQs for bottled water. The SOQ values can be referenced in the Code of Federal Regulations (CFR), Title 21, Part 165.110.

FDA SOQ values are expressed in parts per million (ppm). Because bottled water residues are expressed in parts per trillion (ppt), the FDA SOQ values have been multiplied by a factor of 1,000,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by FDA.

APPENDIX F. DISTRIBUTION OF RESIDUES BY PESTICIDE IN BOTTLED WATER

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	FDA SOQ, ppt ¹
2,4 DB	H	367				4.0 ^	
2,4-D	H	367	2	0.5	3.2 - 4.2	2.5 ^	70,000
Acetochlor	H	367	1	0.3	30 ^	10 ^	
Acetochlor ethanesulfonic acid (ESA)	HM	367	1	0.3	15 ^	9.0 ^	
Acetochlor oxanilic acid (OA)	HM	367				10 ^	
Alachlor	H	367				10 ^	2,000
Alachlor ethanesulfonic acid (ESA)	HM	367	21	5.7	15 - 87.8	12.5 ^	
Alachlor oxanilic acid (OA)	HM	367				10 ^	
Atrazine	H	367	12	3.3	10 - 33.1	10 ^	3,000
Bensulfuron methyl	H	367				5.0 ^	
Bentazon	H	1	1	100	1.2 ^	0.30 ^	
Boscalid	F	367				100 ^	
Bromacil	H	367				6.0 ^	
Carbaryl	I	367				7.5 ^	
Carbofuran	I	367				4.0 ^	40,000
Chlorimuron ethyl	H	367				6.0 ^	
Chlorothalonil	F	367				30 ^	
Chlorpyrifos	I	367				30 ^	
Clomazone	H	367				30 ^	
Clopyralid	H	367				12.5 ^	
Cyanazine	H	367				50 ^	
DCPA	H	367				30 ^	
Desethyl Atrazine	HM	367	41	11.2	17 - 120	10 ^	
Desethyl-desisopropyl Atrazine	HM	367	17	4.6	20.5 - 124	15 ^	
Desisopropyl atrazine	HM	367	8	2.2	50 - 83	50 ^	
Diazinon	I	367				30 ^	
Dimethenamid	H	367				10 ^	
Dimethenamid ESA	HM	367				2.0 ^	
Dimethenamid oxanilic acid (OA)	HM	367				3.0 ^	
Dimethoate	I	367				50 ^	
Disulfoton sulfone	IM	367				6.0 ^	
Diuron	H	367				4.0 ^	
EPTC	H	367				30 ^	
Ethalfuralin	H	367				30 ^	

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	FDA SOQ, ppt ¹
Flufenacet	H	63				2.5 ^	
Flufenacet OA	HM	304				2.5 ^	
Fonofos	I	367				30 ^	
Halosulfuron	H	367				9.0 ^	
Hydroxy Atrazine	HM	367	17	4.6	3.0 - 31.5	2.0 ^	
Imazamethabenz acid	H	367				3.0 ^	
Imazamethabenz methyl	H	367				1.5 ^	
Imazamox	H	367				4.0 ^	
Imazapic	H	367				3.0 ^	
Imazapyr	H	367				2.5 ^	
Imazaquin	H	367				5.0 ^	
Imazethapyr	H	367				2.0 ^	
Linuron	H	367				6.0 ^	
Malathion	I	367				30 ^	
MCPA	H	367				1.5 ^	
MCPB	H	367				3.0 ^	
Metalaxyl	F	367				2.5 ^	
Metolachlor	H	367				15 ^	
Metolachlor ethanesulfonic acid (ESA)	HM	367	39	10.6	5.0 - 2020	3.0 ^	
Metolachlor oxanilic acid (OA)	HM	367	18	4.9	3.5 - 66.9	3.0 ^	
Metribuzin	H	367				30 ^	
Metsulfuron methyl	H	367				7.0 ^	
Myclobutanil	F	367				50 ^	
Neburon	H	367				3.0 ^	
Nicosulfuron	H	367				8.0 ^	
Parathion methyl	I	367				30 ^	
Pendimethalin	H	367				30 ^	
Phorate	I	367				30 ^	
Picloram	H	367				12.5 ^	500,000
Prometon	H	367				30 ^	
Prometryn	H	367				1.0 ^	
Propachlor	H	367				30 ^	
Propachlor OA	HM	367				3.0 ^	
Propanil	H	367				30 ^	
Propazine	H	367				30 ^	

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	FDA SOQ, ppt ¹
Propiconazole	F	367				50 ^	
Propoxur	I	367				3.0 ^	
Siduron	H	367				2.0 ^	
Simazine	H	367				30 ^	4,000
Sulfometuron methyl	H	367				2.5 ^	
Tebuconazole	F	367				50 ^	
Tebupirimfos	I	367				30 ^	
Tebuthiuron	H	367				30 ^	
Terbufos	I	367				30 ^	
Tetraconazole	F	367				30 ^	
Thifensulfuron	H	367				5.0 ^	
Thiobencarb	H	367				2.5 ^	
Tri Allate	H	367				30 ^	
Triasulfuron	H	367				7.0 ^	
Trifluralin	H	367				30 ^	

NOTES

¹ = FDA SOQ values have been multiplied by a factor of 1,000,000 as a basis for comparison using a single scale.

There is no intention to imply any more exactness in the value than that originally expressed by FDA.

^ = Only one distinct detected concentration or LOD value was reported for the pair.

Pesticide Types:

F = Fungicide

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide

Appendix G

Distribution of Residues by Pesticide in Drinking Water

Appendix G shows residue detections for all drinking water compounds tested, including range of values detected and range of Limits of Detection (LODs). The Environmental Protection Agency (EPA) National Primary Drinking Water Regulation (NPDWR) Maximum Contaminant Levels (MCLs) for drinking water, Health Advisory (HA) values for drinking water, and Freshwater Aquatic Organism (FAOs) Criteria for ambient water are also shown. Units for LODs, MCLs, HAs, and FAOs are shown in parts per trillion (ppt).

In 2006, PDP analyzed 737 drinking water samples, including 368 finished drinking water samples and 369 untreated (raw intake) drinking water samples. PDP detected 39 different pesticide residues in finished drinking water and 48 residues in the untreated intake water; most of the detections were herbicides. None of the finished drinking water samples exceeded EPA MCLs or HAs for any pesticide detected. In fact, the majority of pesticides included in the PDP screens were not detected.

The MCLs are legally enforceable standards that apply to public water systems. EPA's regulations for MCLs can be referenced at <http://www.epa.gov/safewater/mcl.html>. The HAs are an estimate of acceptable drinking water levels for a chemical substance based on health effects information. The values published are for lifetime HA, which is the concentration of a chemical in drinking water that is not expected to cause any adverse noncarcinogenic effects for a lifetime of exposure. The HA values can be referenced at <http://www.epa.gov/waterscience/criteria/drinking>. FAO criteria are set by EPA and are the concentration of a chemical in water at or below which aquatic life are protected from acute and chronic adverse effects of the chemical. The FAO values can be referenced at <http://www.epa.gov/waterscience/criteria/wqcriteria.html>. Health Advisories and FAO criteria are not legally enforceable Federal standards, but serve as technical guidance to assist Federal, State, and local officials.

EPA MCL, HA, and FAO values are expressed in parts per million (ppm). Because drinking water residues are expressed in parts per trillion (ppt), EPA MCL, HA, and FAO values have been multiplied by a factor of 1,000,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA.

APPENDIX G. DISTRIBUTION OF RESIDUES BY PESTICIDE IN DRINKING WATER

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
1,2,4-Triazole	FM								
Water, Finished		114				220 ^			
Water, Untreated		89				220 ^			
2,4,5-T	H								
Water, Finished		365				1.6 - 22		70,000	
Water, Untreated		367				1.6 - 22			
2,4-DB	H								
Water, Finished		365				14 - 151			
Water, Untreated		367				14 - 151			
2,4-D	H								
Water, Finished		365	180	49.3	1.1 - 313	0.65 - 90	70,000		
Water, Untreated		367	197	53.7	1.1 - 2416	0.65 - 90			
Acetochlor	H								
Water, Finished		363	3	0.8	15.3 - 82.4	9.2 - 49.5			
Water, Untreated		364	7	1.9	15.3 - 435	9.2 - 49.5			
Acetochlor ethanesulfonic acid (ESA)	HM								
Water, Finished		368	66	17.9	2.7 - 163	1.6 - 45			
Water, Untreated		369	78	21.1	2.7 - 191	1.6 - 45			
Acetochlor oxanilic acid (OA)	HM								
Water, Finished		368	63	17.1	2.3 - 176	0.68 - 45			
Water, Untreated		369	75	20.3	1.1 - 151	0.68 - 45			
Acifluorfen	H								
Water, Finished		117				79 - 80			
Water, Untreated		118				79 - 80			
Alachlor	H								
Water, Finished		363				7.8 - 45	2,000		
Water, Untreated		364				7.8 - 45			
Alachlor ethanesulfonic acid (ESA)	HM								
Water, Finished		368	70	19.0	2.8 - 357	1.7 - 45			
Water, Untreated		369	90	24.4	2.8 - 186	1.7 - 45			
Alachlor oxanilic acid (OA)	HM								
Water, Finished		368	27	7.3	1.0 - 4.6	0.61 - 45			
Water, Untreated		369	40	10.8	1.0 - 20	0.61 - 45			
Aldicarb	I								
Water, Finished		209				9.8 - 1500	3,000	7,000	
Water, Untreated		211				9.8 - 1500			
Aldicarb sulfone	IM								
Water, Finished		117				200 ^	2,000	7,000	
Water, Untreated		118				200 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Aldicarb sulfoxide	IM								
Water, Finished		117				0.50 ^	4,000	7,000	
Water, Untreated		118				0.50 ^			
Aldrin	I								
Water, Finished		251				5.0 - 25			
Water, Untreated		251				5.0 - 25			3,000
Atrazine	H								
Water, Finished		368	312	84.8	1.1 - 1838	0.66 - 25	3,000		
Water, Untreated		369	304	82.4	1.1 - 2474	0.66 - 25			
Azinphos methyl	I								
Water, Finished		245				10 - 12			
Water, Untreated		246				10 - 12			
Azinphos methyl oxygen analog	IM								
Water, Finished		133				8.7 ^			
Water, Untreated		133				8.7 ^			
Benfluralin	H								
Water, Finished		235				9.8 - 50			
Water, Untreated		236				9.8 - 50			
Benomyl	F								
Water, Finished		117				30 ^			
Water, Untreated		118				30 ^			
Bensulfuron methyl	H								
Water, Finished		345				1.2 - 54			
Water, Untreated		347				1.2 - 54			
Bentazon	H								
Water, Finished		365	49	13.4	0.30 - 16	0.18 - 209		200,000	
Water, Untreated		367	90	24.5	0.30 - 18	0.18 - 209			
BHC alpha	I								
Water, Finished		118				20 ^			
Water, Untreated		118				20 ^			
Bifenthrin	I								
Water, Finished		251				3.2 - 5.0			
Water, Untreated		251				3.2 - 5.0			
Bromacil	H								
Water, Finished		248				2.5 - 9.6		70,000	
Water, Untreated		249	3	1.2	4.2 - 16	2.5 - 9.6			
Bromoxynil	H								
Water, Finished		232				6.0 - 39			
Water, Untreated		234				6.0 - 39			
Bromuconazole 46	FM								
Water, Finished		133				6.5 ^			
Water, Untreated		133				6.5 ^			
Bromuconazole 47	FM								
Water, Finished		133				9.4 ^			
Water, Untreated		133				9.4 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Butachlor	H								
Water, Finished		245				1.9 - 5.3			
Water, Untreated		246				1.9 - 5.3			
Butylate	H								
Water, Finished		251				1.8 - 10		400,000	
Water, Untreated		251				1.8 - 10			
Carbaryl	I								
Water, Finished		365				12 - 23			
Water, Untreated		367	1	0.3	20 ^	12 - 23			
Carbendazim (MBC)	F								
Water, Finished		115				1.8 ^			
Water, Untreated		116	5	4.3	3.0 - 11	1.8 ^			
Carbofuran	I								
Water, Finished		365	4	1.1	1.0 - 2.0	0.60 - 17	40,000		
Water, Untreated		367	1	0.3	2.0 ^	0.60 - 17			
Carbophenothion	I								
Water, Finished		235				5.3 - 11			
Water, Untreated		236				5.3 - 11			
Chloramben	H								
Water, Finished		100				60 ^		100,000	
Water, Untreated		101				60 ^			
Chlordane cis	I								
Water, Finished		235				2.3 - 5.0	2,000 ⁴		
Water, Untreated		236				2.3 - 5.0			2,400
Chlordane trans	I								
Water, Finished		235				2.3 - 5.0	2,000 ⁴		
Water, Untreated		236				2.3 - 5.0			2,400
Chlorfenvinphos Total	I								
Water, Finished		368				7.5 - 24			
Water, Untreated		369				7.5 - 24			
Chlorimuron ethyl	H								
Water, Finished		203				8.4 - 13			
Water, Untreated		205	1	0.5	14 ^	8.4 - 13			
Chlorothalonil	F								
Water, Finished		118				50 ^			
Water, Untreated		118				50 ^			
Chlorpyrifos	I								
Water, Finished		235				6.0 - 11		2,000	83
Water, Untreated		236				6.0 - 11			
Chlorpyrifos methyl	I								
Water, Finished		235				11.3 - 14			
Water, Untreated		236				11.3 - 14			
Chlorpyrifos oxygen analog	IM								
Water, Finished		118				510 ^			
Water, Untreated		118				510 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Clopyralid	H								
Water, Finished		360	58	16.1	5.7 - 77	3.4 - 151			
Water, Untreated		362	59	16.3	5.7 - 170	3.4 - 151			
Coumaphos	I								
Water, Finished		225				3.8 - 61			
Water, Untreated		226				3.8 - 61			
Cyanazine	H								
Water, Finished		368				1.7 - 25	1,000		
Water, Untreated		369				1.7 - 25			
Cycloate	H								
Water, Finished		205				3.3 - 6.0			
Water, Untreated		204				3.3 - 6.0			
Cyfluthrin	I								
Water, Finished		251				40 - 75			
Water, Untreated		251				40 - 75			
Cyhalothrin, Lambda	I								
Water, Finished		32				21 ^			
Water, Untreated		32				21 ^			
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I								
Water, Finished		219				21 - 75			
Water, Untreated		219				21 - 75			
Cypermethrin	I								
Water, Finished		251				74 - 90			
Water, Untreated		251				74 - 90			
Cyphenothrin	I								
Water, Finished		180				14 - 75			
Water, Untreated		180				14 - 75			
Cyproconazole	F								
Water, Finished		133				3.1 ^			
Water, Untreated		133				3.1 ^			
DCPA	H								
Water, Finished		235	4	1.7	1.3 ^	0.80 - 2.5	70,000		
Water, Untreated		236				0.75 - 2.5			
DCPA monoacid	H								
Water, Finished		115				222 ^			
Water, Untreated		116				222 ^			
DDD o,p'	IM								
Water, Finished		112				3.8 ^			
Water, Untreated		113				3.8 ^			
DDD p,p'	IM								
Water, Finished		117				3.8 ^			
Water, Untreated		118				3.8 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
DDE o,p'	IM								
Water, Finished		118				4.0 ^			
Water, Untreated		118				4.0 ^			
DDE p,p'	IM								
Water, Finished		235				2.5 - 7.5			
Water, Untreated		236				2.5 - 7.5			
DDT o,p'	I								
Water, Finished		117				3.7 - 3.8			
Water, Untreated		118				3.7 - 3.8			
DDT p,p'	I								
Water, Finished		117				3.8 ^			
Water, Untreated		118				3.8 ^			
DEF (Tribufos)	H								
Water, Finished		118				8.0 ^			
Water, Untreated		118				8.0 ^			
Deltamethrin (includes parent Tralomethrin)	I								
Water, Finished		133				84 ^			
Water, Untreated		133				84 ^			
Desethyl Atrazine	HM								
Water, Finished		368	220	59.8	0.72 - 584	0.43 - 25			
Water, Untreated		369	244	65.6	0.72 - 366	0.43 - 25			
Desisopropyl atrazine	HM								
Water, Finished		368	126	34.2	5.2 - 98	3.1 - 50			
Water, Untreated		369	136	36.6	5.2 - 312	3.1 - 50			
Diazinon	I								
Water, Finished		368				3.3 - 7.5	1,000	170	
Water, Untreated		369				3.3 - 7.5			
Diazinon oxygen analog	IM								
Water, Finished		235				9.0 - 49			
Water, Untreated		236				9.0 - 49			
Dicamba	H								
Water, Finished		117				266 - 270	400,000		
Water, Untreated		118				266 - 270			
Dichlobenil	H								
Water, Finished		235				6.5 - 45			
Water, Untreated		236	4	1.7	11.2 - 25	6.5 - 45			
Dichlorprop	H								
Water, Finished		248				1.7 - 1.8			
Water, Untreated		249	1	0.4	7.5 ^	1.7 - 1.8			
Dichlorvos (DDVP)	I								
Water, Finished		230				11.3 - 22.5			
Water, Untreated		231				11.3 - 22.5			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Dicloran	F								
Water, Finished		117				7.5 ^			
Water, Untreated		118				7.5 ^			
Dicofol p,p'	I								
Water, Finished		235				5.0 - 11.3			
Water, Untreated		236				5.0 - 11.3			
Dicrotophos	I								
Water, Finished		118				132 ^			
Water, Untreated		118				132 ^			
Dieldrin	I								
Water, Finished		235				5.0 - 25			
Water, Untreated		236				5.0 - 25			240
Difenoconazole	F								
Water, Finished		133				12 ^			
Water, Untreated		133				12 ^			
Dimethenamid	H								
Water, Finished		233	4	1.7	1.0 - 6.4	0.60 - 45			
Water, Untreated		234	9	3.8	1.0 - 12	0.60 - 45			
Dimethenamid ESA	HM								
Water, Finished		118				45 ^			
Water, Untreated		118				45 ^			
Dimethenamid oxanilic acid (OA)	HM								
Water, Finished		251	22	8.8	1.0 - 3.0	0.63 - 45			
Water, Untreated		251	54	21.5	1.0 - 48	0.63 - 45			
Dimethenamid/Dimethenamid P	H								
Water, Finished		133	7	5.3	4.2 - 58	2.5 ^			
Water, Untreated		133	22	16.5	4.2 - 160	2.5 ^			
Dimethoate	I								
Water, Finished		368				5.3 - 52			
Water, Untreated		369				5.3 - 52			
Dinoseb	H								
Water, Finished		248				0.60 - 0.78	7,000	7,000	
Water, Untreated		249				0.60 - 0.78			
Diphenamid	H								
Water, Finished		117				24 ^		200,000	
Water, Untreated		118				24 ^			
Disulfoton	I								
Water, Finished		368				6.0 - 8.8		700	
Water, Untreated		369				6.0 - 8.8			
Disulfoton sulfone	IM								
Water, Finished		250				3.8 - 12.5			
Water, Untreated		251				3.8 - 12.5			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Diuron	H								
Water, Finished		248	27	10.9	5.8 - 16	3.5 - 9.6			
Water, Untreated		249	49	19.7	5.8 - 183	3.5 - 9.6			
Endosulfan I	I								
Water, Finished		235				5.0 - 50			
Water, Untreated		236				5.0 - 50			220
Endosulfan II	IM								
Water, Finished		235				12 - 50			
Water, Untreated		236				12 - 50			220
Endosulfan sulfate	IM								
Water, Finished		112				30 - 46.8			
Water, Untreated		113				30 - 46.8			
Endrin	I								
Water, Finished		235				22 - 52.5	2,000	2,000	
Water, Untreated		236				22 - 52.5			86
Epoxiconazole	F								
Water, Finished		133				13 ^			
Water, Untreated		133				13 ^			
EPTC	H								
Water, Finished		368				2.5 - 117.8			
Water, Untreated		369	1	0.3	8.0 ^	2.5 - 117.8			
Esfenvalerate	I								
Water, Finished		118				50 ^			
Water, Untreated		118				50 ^			
Esfenvalerate+Fenvalerate Total	I								
Water, Finished		133				19 ^			
Water, Untreated		133				19 ^			
Ethalfuralin	H								
Water, Finished		230				50 - 100			
Water, Untreated		231				50 - 100			
Ethion	I								
Water, Finished		368				2.3 - 25			
Water, Untreated		369				2.3 - 25			
Ethion di oxon	IM								
Water, Finished		118				35 ^			
Water, Untreated		118				35 ^			
Ethion mono oxon	IM								
Water, Finished		235				3.8 - 51			
Water, Untreated		236				3.8 - 51			
Ethoprop	I								
Water, Finished		368				4.5 - 6.0			
Water, Untreated		369				4.5 - 6.0			
Fenamiphos	I								
Water, Finished		235				7.5 - 26		700	
Water, Untreated		236				7.5 - 26			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Fenamiphos sulfone	IM								
Water, Finished		118				193 ^			
Water, Untreated		118				193 ^			
Fenarimol	F								
Water, Finished		117				37.5 ^			
Water, Untreated		118				37.5 ^			
Fenbuconazole	F								
Water, Finished		223				3.0 - 4.8			
Water, Untreated		224				3.0 - 4.8			
Fenitrothion	I								
Water, Finished		363				6.0 - 52			
Water, Untreated		364				6.0 - 52			
Fenpropathrin	I								
Water, Finished		250				14 - 60			
Water, Untreated		251				14 - 60			
Fenthion	I								
Water, Finished		368				6.0 - 22			
Water, Untreated		369				6.0 - 22			
Fenthion-O analog	IM								
Water, Finished		230				7.5 - 99			
Water, Untreated		231				7.5 - 99			
Fenuron	H								
Water, Finished		232				15 - 27			
Water, Untreated		234				15 - 27			
Fipronil	I								
Water, Finished		80				12 ^			
Water, Untreated		81				12 ^			
Fludioxonil	F								
Water, Finished		117				37.5 ^			
Water, Untreated		118				37.5 ^			
Flufenacet	H								
Water, Finished		118				45 ^			
Water, Untreated		118				45 ^			
Flufenacet ESA	HM								
Water, Finished		118				45 ^			
Water, Untreated		118				45 ^			
Flufenacet OA	HM								
Water, Finished		133				0.75 ^			
Water, Untreated		133				0.75 ^			
Flumetsulam	H								
Water, Finished		365				6.0 - 129			
Water, Untreated		367				6.0 - 129			
Fluometuron	H								
Water, Finished		248	24	9.7	2.0 - 19	1.2 - 4.2		90,000	
Water, Untreated		249	24	9.6	2.0 - 7.0	1.2 - 4.2			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Fluvalinate	I								
Water, Finished		133				130 ^			
Water, Untreated		133				130 ^			
Fonofos	I								
Water, Finished		117				7.5 ^		10,000	
Water, Untreated		118				7.5 ^			
Halosulfuron methyl	H								
Water, Finished		133				3.3 ^			
Water, Untreated		133				3.3 ^			
Heptachlor	I								
Water, Finished		118				5.0 - 50	400		
Water, Untreated		118				5.0 - 50			520
Heptachlor epoxide	IM								
Water, Finished		235				5.0 - 25	200		
Water, Untreated		236				5.0 - 25			520
Hexachlorobenzene (HCB)	FM								
Water, Finished		118				10 ^	1,000		
Water, Untreated		118				10 ^			
Hexaconazole	F								
Water, Finished		133				20 ^			
Water, Untreated		133				20 ^			
Hydroxy Atrazine	HM								
Water, Finished		133	92	69.2	2.0 - 38	1.2 ^			
Water, Untreated		133	91	68.4	2.0 - 100	1.2 ^			
3-Hydroxycarbofuran	IM								
Water, Finished		232				24 - 46			
Water, Untreated		234				24 - 46			
Imazamethabenz acid	H								
Water, Finished		133	14	10.5	1.0 - 8.4	0.60 ^			
Water, Untreated		133	15	11.3	1.0 - 7.9	0.60 ^			
Imazamethabenz methyl	H								
Water, Finished		365	4	1.1	0.52 - 4.0	0.31 - 4.2			
Water, Untreated		367	5	1.4	0.52 - 4.8	0.31 - 4.2			
Imazamox	H								
Water, Finished		248				2.4 - 3.1			
Water, Untreated		249				2.4 - 3.1			
Imazapic	H								
Water, Finished		248				0.90 - 2.4			
Water, Untreated		249	1	0.4	1.5 ^	0.90 - 2.4			
Imazapyr	H								
Water, Finished		248	88	35.5	1.5 - 15	0.90 - 1.0			
Water, Untreated		249	80	32.1	1.5 - 21	0.90 - 1.0			
Imazaquin	H								
Water, Finished		365				1.1 - 9.3			
Water, Untreated		367				1.1 - 9.3			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Imazethapyr	H								
Water, Finished		365	17	4.7	2.0 - 4.0	1.0 - 7.9			
Water, Untreated		367	24	6.5	2.0 - 8.3	1.0 - 7.9			
Imidacloprid	I								
Water, Finished		365	15	4.1	2.5 - 5.5	1.5 - 42			
Water, Untreated		367	19	5.2	2.5 - 202	1.5 - 42			
Isofenphos	I								
Water, Finished		235				4.5 - 9.5			
Water, Untreated		236				4.5 - 9.5			
Isofenphos oxygen analog	IM								
Water, Finished		118				52 ^			
Water, Untreated		118				52 ^			
Lindane (BHC gamma)	I								
Water, Finished		363				10 - 20	200		
Water, Untreated		364				10 - 20			950
Linuron	H								
Water, Finished		365				3.0 - 189			
Water, Untreated		367				3.0 - 189			
Malathion	I								
Water, Finished		363				6.0 - 21		100,000	
Water, Untreated		364				6.0 - 21			
Malathion oxygen analog	IM								
Water, Finished		117				6.0 ^			
Water, Untreated		118				6.0 ^			
MCPA	H								
Water, Finished		365	7	1.9	1.3 - 12	0.78 - 91		30,000	
Water, Untreated		367	12	3.3	1.3 - 188	0.78 - 91			
MCPB	H								
Water, Finished		365				6.6 - 228			
Water, Untreated		367				6.6 - 228			
Mecoprop (MCP)	H								
Water, Finished		117				52 ^			
Water, Untreated		118				52 ^			
Metalaxyl	F								
Water, Finished		368				3.0 - 25			
Water, Untreated		369				3.0 - 25			
Methidathion	I								
Water, Finished		230				5.3 - 31			
Water, Untreated		231				5.3 - 31			
Methidathion oxygen analog	IM								
Water, Finished		230				22.5 - 915			
Water, Untreated		231				22.5 - 915			
Methiocarb	I								
Water, Finished		227				15 - 22			
Water, Untreated		229				15 - 22			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Methomyl	I								
Water, Finished		365				3.6 - 75		200,000	
Water, Untreated		367				3.6 - 75			
Methoxychlor olefin	IM								
Water, Finished		117				3.8 ^	40,000	40,000	
Water, Untreated		118				3.8 ^			
Methoxychlor Total	I								
Water, Finished		235				7.5 - 40	40,000	40,000	
Water, Untreated		236				7.5 - 40			
Metolachlor	H								
Water, Finished		363	113	31.1	2.5 - 463	1.5 - 45		700,000	
Water, Untreated		364	136	37.4	2.5 - 522	1.5 - 45			
Metolachlor ethanesulfonic acid (ESA)	HM								
Water, Finished		368	231	62.8	0.60 - 2167	0.36 - 45			
Water, Untreated		369	246	66.1	0.60 - 3236	0.36 - 45			
Metolachlor oxanilic acid (OA)	HM								
Water, Finished		368	136	37.0	5.3 - 547	3.2 - 45			
Water, Untreated		369	143	38.4	5.3 - 456	3.2 - 45			
Metribuzin	H								
Water, Finished		235				35 - 45		70,000	
Water, Untreated		236				35 - 45			
Metsulfuron methyl	H								
Water, Finished		228				1.5 - 28			
Water, Untreated		229				1.5 - 28			
Mevinphos Total	I								
Water, Finished		230				6.0 - 15			
Water, Untreated		231				6.0 - 15			
Molinate	H								
Water, Finished		235				9.8 - 12			
Water, Untreated		236				9.8 - 12			
Monuron	H								
Water, Finished		232				6.0 - 54			
Water, Untreated		234				6.0 - 54			
Myclobutanil	F								
Water, Finished		366				5.0 - 50			
Water, Untreated		367				5.0 - 50			
Napropamide	H								
Water, Finished		235				24 - 25			
Water, Untreated		236				24 - 25			
Neburon	H								
Water, Finished		365				1.2 - 75			
Water, Untreated		367				1.2 - 75			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Nicosulfuron	H								
Water, Finished		228	7	3.1	2.8 - 9.5	1.7 - 4.8			
Water, Untreated		229	27	11.8	2.8 - 80	1.7 - 4.8			
Norflurazon	H								
Water, Finished		234	2	0.9	79 - 87	18.8 - 31			
Water, Untreated		236	4	1.7	31.3 - 132	18.8 - 31			
Norflurazon desmethyl	HM								
Water, Finished		234				37.5 - 72			
Water, Untreated		236				37.5 - 72			
Omethoate	IM								
Water, Finished		97				0.30 ^			
Water, Untreated		97				0.30 ^			
Oxadiazon	H								
Water, Finished		235				15 ^			
Water, Untreated		236				15 ^			
Oxadixyl	F								
Water, Finished		117				48.8 ^			
Water, Untreated		118				48.8 ^			
Oxamyl	I								
Water, Finished		168				15 - 20	200,000		
Water, Untreated		172				15 - 20			
Oxychlorane	IM								
Water, Finished		117				7.5 ^			
Water, Untreated		118				7.5 ^			
Oxydemeton methyl	I								
Water, Finished		118				255 ^			
Water, Untreated		118				255 ^			
Oxyfluorfen	H								
Water, Finished		235				11.3 - 75			
Water, Untreated		236				11.3 - 75			
Parathion ethyl	I								
Water, Finished		250				7.5 - 15			
Water, Untreated		251				7.5 - 15			
Parathion methyl	I								
Water, Finished		245				4.5 - 53			
Water, Untreated		246				4.5 - 53			
Parathion methyl oxygen analog	IM								
Water, Finished		363				9.8 - 195			
Water, Untreated		364				9.8 - 195			
Parathion oxygen analog	IM								
Water, Finished		230				7.5 - 104			
Water, Untreated		231				7.5 - 104			
Pebulate	H								
Water, Finished		235				2.3 - 25			
Water, Untreated		236				2.3 - 25			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Pendimethalin	H								
Water, Finished		235				4.5 - 25			
Water, Untreated		236				4.5 - 25			
Permethrin cis	IM								
Water, Finished		251				4.5 - 8.0			
Water, Untreated		251				4.5 - 8.0			
Permethrin trans	I								
Water, Finished		133				7.5 ^			
Water, Untreated		133				7.5 ^			
Phenothrin	I								
Water, Finished		133	1	0.8	45 ^	27 ^			
Water, Untreated		133				27 ^			
Phenthoate	I								
Water, Finished		112				15 ^			
Water, Untreated		113				15 ^			
Phorate	I								
Water, Finished		368				5.2 - 12			
Water, Untreated		369				5.2 - 12			
Phorate oxygen analog	IM								
Water, Finished		235				5.3 - 10			
Water, Untreated		236				5.3 - 10			
Phorate sulfone	IM								
Water, Finished		235				6.0 - 16			
Water, Untreated		236				6.0 - 16			
Phorate sulfoxide	IM								
Water, Finished		235				37.5 - 199			
Water, Untreated		236				37.5 - 199			
Phosalone	I								
Water, Finished		235				4.5 - 52			
Water, Untreated		236				4.5 - 52			
Phosalone oxygen analog	IM								
Water, Finished		118				631 ^			
Water, Untreated		118				631 ^			
Phosmet	I								
Water, Finished		118				227 ^			
Water, Untreated		118				227 ^			
Phosphamidon	I								
Water, Finished		235				12 - 297			
Water, Untreated		236				12 - 297			
Picloram	H								
Water, Finished		365	1	0.3	37 ^	22 - 447	500,000		
Water, Untreated		367	1	0.3	37 ^	22 - 447			
Piperonyl butoxide	I								
Water, Finished		117				18.8 ^			
Water, Untreated		118				18.8 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Pirimicarb	I								
Water, Finished		117				37.5 ^			
Water, Untreated		118				37.5 ^			
Pirimiphos methyl	I								
Water, Finished		235				5.3 - 8.8			
Water, Untreated		236				5.3 - 8.8			
Prallethrin	I								
Water, Finished		180				25 ^			
Water, Untreated		180				25 ^			
Profenofos	I								
Water, Finished		235				3.8 - 30			
Water, Untreated		236				3.8 - 30			
Prometon	H								
Water, Finished		368	190	51.6	0.28 - 16	0.17 - 50		100,000	
Water, Untreated		369	217	58.3	0.28 - 19	0.17 - 50			
Prometryn	H								
Water, Finished		368	1	0.3	25 ^	0.17 - 24			
Water, Untreated		369	5	1.3	25 ^	0.17 - 24			
Pronamide	H								
Water, Finished		235				5.0 - 22.5			
Water, Untreated		236				5.0 - 22.5			
Propachlor	H								
Water, Finished		363				0.64 - 16			
Water, Untreated		364				0.64 - 16			
Propachlor OA	HM								
Water, Finished		133				1.4 ^			
Water, Untreated		133				1.4 ^			
Propanil	H								
Water, Finished		250				6.7 - 24.8			
Water, Untreated		251				6.7 - 24.8			
Propargite	I								
Water, Finished		235				60 - 180			
Water, Untreated		236				60 - 180			
Propazine	H								
Water, Finished		225				3.3 - 4.5			
Water, Untreated		226	6	2.7	5.5 - 7.5	3.3 - 4.5			
Propetamphos	I								
Water, Finished		235				6.0 - 8.4			
Water, Untreated		236				6.0 - 8.4			
Propham	H								
Water, Finished		115				18 ^		100,000	
Water, Untreated		116				18 ^			
Propiconazole	F								
Water, Finished		365				6.0 - 55			
Water, Untreated		367				6.0 - 55			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Propoxur	I								
Water, Finished		117				24.8 ^			
Water, Untreated		118				24.8 ^			
Quintozene (PCNB)	F								
Water, Finished		112				11.3 ^			
Water, Untreated		113				11.3 ^			
Resmethrin	I								
Water, Finished		180				7.8 - 50			
Water, Untreated		180				7.8 - 50			
S-(2-hydroxy)propyl EPTC	HM								
Water, Finished		71				125 ^			
Water, Untreated		71				125 ^			
Siduron	H								
Water, Finished		248				2.1 - 2.4			
Water, Untreated		249	2	0.8	4.0 ^	2.1 - 2.4			
Simazine	H								
Water, Finished		368	128	34.8	1.2 - 284	0.71 - 50	4,000		
Water, Untreated		369	139	37.4	1.2 - 590	0.71 - 50			
Sulfometuron methyl	H								
Water, Finished		340				1.9 - 15			
Water, Untreated		342	1	0.3	3.2 ^	1.9 - 15			
Sulfotep	I								
Water, Finished		235				2.4 - 4.5			
Water, Untreated		236				2.4 - 4.5			
Sulprofos	I								
Water, Finished		235				6.0 - 11			
Water, Untreated		236				6.0 - 11			
Sulprofos oxygen analog	IM								
Water, Finished		118				37 ^			
Water, Untreated		118				37 ^			
Tebuconazole	F								
Water, Finished		365	2	0.5	10.3 ^	4.8 - 62			
Water, Untreated		367	4	1.1	8.0 - 10.3	4.8 - 62			
Tebupirimfos	I								
Water, Finished		235				7.5 - 12			
Water, Untreated		236				7.5 - 12			
Tebupirimfos oxygen analog	IM								
Water, Finished		235				9.0 - 13			
Water, Untreated		236				9.0 - 13			
Tebuthiuron	H								
Water, Finished		365	148	40.5	0.35 - 7.6	0.21 - 10	500,000		
Water, Untreated		367	182	49.6	0.35 - 7.3	0.21 - 10			
Tecnazene	P								
Water, Finished		112				18.8 ^			
Water, Untreated		113				18.8 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Tefluthrin	I								
Water, Finished		251				2.1 - 5.0			
Water, Untreated		251				2.1 - 5.0			
Terbacil	H								
Water, Finished		117				22.5 ^		90,000	
Water, Untreated		118				22.5 ^			
Terbufos	I								
Water, Finished		251				5.2 - 6.3		400	
Water, Untreated		251				5.2 - 6.3			
Terbufos sulfone	IM								
Water, Finished		235				4.5 - 7.7			
Water, Untreated		236				4.5 - 7.7			
Terbufos-O analog	IM								
Water, Finished		235				6.0 - 13			
Water, Untreated		236				6.0 - 13			
Tetrachlorvinphos	I								
Water, Finished		363				6.0 - 63			
Water, Untreated		364				6.0 - 63			
Tetraconazole	F								
Water, Finished		223	9	4.0	6.2 - 57	1.8 - 3.7			
Water, Untreated		224	9	4.0	6.2 - 30	1.8 - 3.7			
Tetradifon	I								
Water, Finished		297				7.2 - 75			
Water, Untreated		298				7.2 - 75			
Tetramethrin	I								
Water, Finished		180				28 - 75			
Water, Untreated		180				28 - 75			
Thifensulfuron	H								
Water, Finished		133				8.9 ^			
Water, Untreated		133				8.9 ^			
Thiobencarb	H								
Water, Finished		248				7.7 - 24.8			
Water, Untreated		249				7.7 - 24.8			
Tolclofos methyl	F								
Water, Finished		118				5.0 - 8.0			
Water, Untreated		118				5.0 - 8.0			
Tralomethrin	I								
Water, Finished		118				300 ^			
Water, Untreated		118				300 ^			
Tri Allate	H								
Water, Finished		368				10.5 - 24.8			
Water, Untreated		369				10.5 - 24.8			
Triadimefon	F								
Water, Finished		366				3.4 - 50			
Water, Untreated		367				3.4 - 50			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt ¹	EPA HA ² , ppt ¹	EPA FAO ³ , ppt ¹
Triadimenol	F								
Water, Finished		133				39 ^			
Water, Untreated		133				39 ^			
Triasulfuron	H								
Water, Finished		133				3.1 ^			
Water, Untreated		133				3.1 ^			
Triazole acetic acid (TAA)	FM								
Water, Finished		122				30 ^			
Water, Untreated		109				30 ^			
Triazole alanine (TA)	FM								
Water, Finished		112				13 ^			
Water, Untreated		124				13 ^			
Triclopyr	H								
Water, Finished		365	41	11.2	2.7 - 26	1.6 - 43			
Water, Untreated		367	48	13.1	2.7 - 47	1.6 - 43			
Trifluralin	H								
Water, Finished		235				1.5 - 75		10,000	
Water, Untreated		236				1.5 - 75			
Triticonazole	F								
Water, Finished		133				28 ^			
Water, Untreated		133				28 ^			
Vinclozolin	F								
Water, Finished		191				5.0 - 35			
Water, Untreated		191				5.0 - 35			

NOTES

¹ = EPA MCL, HA, and FAO values have been multiplied by a factor of 1,000,000 as a basis for comparison using a single scale.

There is no intention to imply any more exactness in the value than that originally expressed by EPA.

² = EPA Health Advisory values shown are for lifetime exposure.

³ = The FAO value applies to ambient water rather than drinking water.

⁴ = The MCL for chlordane is inclusive of the isomers.

^ = Only one distinct detected concentration or LOD value was reported for the pair.

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

P = Plant Growth Regulator

Appendix H

Sample Origin by State or Country (Determined by Grower, Packer, or Distributor)

Appendix H gives the number of fruit and vegetables, peanut butter, and bottled water samples per State or country of origin and the number of samples of unknown origin. Where available, the origin of fresh commodities is taken from the grower or packer information. For processed commodities, origin is determined primarily by packer or distributor.

As shown in Appendix H, fruit and vegetable, peanut butter, and bottled water samples originated from 41 States and 27 foreign countries. There were 404 domestic and 39 imported samples from unknown States and countries, respectively. There were an additional 67 samples from unknown countries of origin. Poultry and wheat samples were all of domestic origin. Overall, for all samples except drinking water, 80 percent were from U.S. sources, 18 percent were imports, 1 percent were of mixed origin, and approximately 1 percent were of unknown origin.

APPENDIX H. SAMPLE ORIGIN BY STATE OR COUNTRY¹ (Determined by Grower, Packer, or Distributor)

Part 1. Domestic Samples

States = 41	Fresh F&V														Processed F&V						Nuts	H ₂ O	# of	% of		
	BN	BR	CA	CF	CR	EP	GF	GK	GL	PC	PU	SP	SS	WM	WS	AC	OJ	PD	PS	PZ	RA	PB	WB	Samp.	Total	
Alabama			1																					1	<0.1	
Alaska																								1	1	<0.1
Arizona		2			7	10	8	1	2		2	3	4	3	20		4						1	67	0.6	
Arkansas					1							1	3			12	2	5	19	7	2	14	4	70	0.6	
California	139	38	493	497	127	345	39	18	39	283	317	11	83	27	61	39	139	87	72	227	117	71	3269	29.9		
Colorado					14	2			4			12		1	2	1							3	39	0.4	
Connecticut														1	133			1					56	191	1.7	
Florida		4	2	5	8	83	225	1	2	2	3	12	25	52	13	19	177	8	37	36	8	15	8	745	6.8	
Georgia					21	70		8	21			1	19	7	8	10	16		2	3		17	20	223	2.0	
Hawaii																							2	2	<0.1	
Idaho					5					3	2					51	26	8	72	81	17	28	2	295	2.7	
Illinois		1	3				1					1		1		34	5	3	28	22	8	29	3	139	1.3	
Indiana										2				2										4	<0.1	
Kentucky			1							1	1						2					2		7	0.1	
Maine		4														1	1	2	7	5	4	4	1	29	0.3	
Maryland		4			1	3	1	1				8	5	3		23	4	1	13	24	2	10	3	106	1.0	
Massachusetts			239		1						2						2	1		1		5		251	2.3	
Michigan			3	1	42	27					28	3	1			36	3	13	45	29	6	31	5	273	2.5	
Minnesota		4	1		4	2	2	2	3		1		1			10	6	2	36	13	5	11	4	107	1.0	
Missouri																			4	2		3	3	12	0.1	
Montana					1							1												2	<0.1	
Nebraska																							33	33	0.3	
New Hampshire																						3		3	<0.1	
New Jersey			3			16		6	2	4		8		3		6	2	3	11	3	3	109		179	1.6	
New Mexico														1								1		2	<0.1	
New York		4		2		11		1	1		1	2	1	3	6	32	3	6	108	27	4	22	27	261	2.4	
North Carolina						4		1						2	2				1			2	1	13	0.1	
North Dakota																				8					8	0.1
Ohio				3	5	9		3	3		1	2	1		2	37	16	7	32	25	14	183	21	364	3.3	
Oklahoma																			5						5	<0.1
Oregon																19	1	7	31	32	7	4	5	106	1.0	
Pennsylvania											29	1				91			16	137	2	17	18	311	2.8	
Rhode Island																							1	1	<0.1	
South Carolina								1	7			1	1	1									2	13	0.1	
Tennessee							1												4				4	9	0.1	
Texas		10	1	12	11	18	120	8	4	1	7	15	8	69	3	55	33	3	59	46	17	12	14	526	4.8	
Vermont																							4	4	<0.1	
Virginia			1									2	1			15			1			2	1	23	0.2	
Washington				7	7	1	1		2	14	2	7			1	69	4		8	46		2	8	179	1.6	
West Virginia																			1					1	<0.1	
Wisconsin				1	1		2					2				1	3	2	16	4	2	8	2	44	0.4	
Unknown State		2	6	15	12	72	23	12	16	3	14	29	8	55	17	4	10	4	9	13	38	20	22	404	3.7	
No. of Domestics	0	175	298	539	638	455	729	84	85	66	319	481	91	288	103	721	360	216	647	638	368	705	316	8,322		
% of Total	0	95	94	97	86	61	98	86	99	73	62	94	49	52	28	97	65	96	87	86	99	95	86		76.2	
Number and Percentage computed with 1,310 Poultry samples and 687 Wheat samples of domestic origin added:																									10,319	79.9

Part 2. Imported Samples

Countries = 26	Fresh F&V																Processed F&V						Nuts	H ₂ O	# of	% of	
	BN	BR	CA	CF	CR	EP	GF	GK	GL	PC	PU	SP	SS	WM	WS	AC	OJ	PD	PS	PZ	RA	PB	WB	Samp.	Total		
Argentina											2				1						2			5	<0.1		
Bahamas							5																	5	<0.1		
Belize																	1							1	<0.1		
Brazil																	12							12	0.1		
Canada		1	18	7	77	4					5		1	2	22			76	97			26	6	342	3.1		
Chile									24	192							1				1			218	2.0		
Colombia	59																							59	0.5		
Costa Rica	193												9											202	1.8		
Croatia																							1	1	<0.1		
Dominican Repub.													2											2	<0.1		
Ecuador	217																							217	2.0		
Fiji																							12	12	0.1		
France																	1						23	24	0.2		
Grenada							1																	1	<0.1		
Guatemala	158												23	1				1						183	1.7		
Honduras	65					12						1	26	14										118	1.1		
Iceland																							4	4	<0.1		
Israel					1																			1	<0.1		
Italy																							2	2	<0.1		
Mexico	12	5		11	23	260	7	13	1			23	88	183	237	2		1				1		867	7.9		
Netherlands																								3	3	<0.1	
New Zealand																		6						6	6	0.1	
Nicaragua	1												5	9										15	0.1		
Panama	2												2											4	<0.1		
Peru	1																							1	<0.1		
Poland																		5						5	<0.1		
Unknown Country	34								1					1				3						39	0.4		
No. of Imports	742	6	18	18	101	276	13	14	1	24	194	28	89	252	264	22	15	2	92	100	3	27	48	2349			
% of Total	100	3	6	3	14	37	2	14	1	27	38	5	48	46	72	3	3	1	12	13	1	4	13		21.5		
Percentage computed with 1,310 Poultry samples and 687 Wheat samples of domestic origin added:																											18.2

Part 3. Mixed National Origin Samples

	Processed F&V						Nuts	H ₂ O	# of	% of
	AC	OJ	PD	PS	PZ	RA	PB	WB	Samp.	Total
Argentina / Chile / France / USA			1						1	<0.1
Argentina / Chile / USA			1						1	<0.1
Argentina / Australia / Chile / France / USA			3						3	<0.1
Belize / Brazil / Mexico / USA		2							2	<0.1
Belize / Brazile / USA		1							1	<0.1
Belize / Mexico / USA		1							1	<0.1
Belize / USA		1							1	<0.1
Brazil / Costa Rica		4							4	<0.1
Brazil / Costa Rica / Mexico		1							1	<0.1
Brazil / Costa Rica / Mexico / USA		5							5	<0.1
Brazil / Costa Rica / USA		19							19	0.2
Brazil / Mexico		5							5	<0.1
Brazil / Mexico / USA		57							57	0.5
Brazil / USA		79							79	0.7
Canada / USA								3	3	<0.1
Mexico / USA		3							3	<0.1
No. of Mixed National Origin Samples	178	5						3	186	
% of Total	32	2						1		1.7

Part 4. Unknown Origin Samples

	Fresh F&V															Processed F&V						Nuts	H ₂ O	# of	% of	
	BN	BR	CA	CF	CR	EP	GF	GK	GL	PC	PU	SP	SS	WM	WS	AC	OJ	PD	PS	PZ	RA	PB	WB	Samp.	Total	
Unknown Origin		4		1	5	9	1				2	2	6	10	2	1	4	1	5	6	1	7			67	
% of Total		2		<1	1	1	<1				<1	<1	3	2	1	<1	1	<1	1	1	<1	1				0.6

Sample TOTALS 742 185 316 558 744 740 743 98 86 90 515 511 186 550 369 744 557 224 744 744 372 739 367 10,924

Grand Total computed with with 1,310 Poultry samples and 687 Wheat samples added: 12,921

NOTE

¹ Excludes wheat, poultry, and treated/untreated drinking water samples.

Commodity Legend		
AC = Applesauce	GK = Greens, Kale	PZ = Potatoes, Frozen
BN = Bananas	GL = Greens, Collard	RA = Raisins
BR = Broccoli	OJ = Orange Juice	SP = Spinach
CA = Cranberries	PB = Peanut Butter	SS = Summer Squash
CF = Cauliflower	PC = Peaches	WB = Bottled Water
CR = Carrots	PD = Plums, Dried (Prunes)	WM = Watermelon
EP = Eggplant	PS = Sweet Peas, Frozen	WS = Winter Squash
GF = Grapefruit	PU = Plums, Fresh	

Appendix I

Import vs. Domestic Pesticide Residue Comparisons

PDP is designed to provide a comprehensive statistical picture of pesticide residues in the U.S. food supply, representing all sources, including imports. Most commodities consumed are generally produced in the United States with import components that vary by commodity. However, several commodities tested over the past several years were cyclical; that is, part of the year the commodity was produced domestically and part of the year it was imported.

Appendix I compares residue data reported for samples originating in the United States with those of the same commodity from major exporting countries. Residue data for domestic winter squash are compared with data for samples originating in Mexico for 2005 and 2006. Residue data for fresh plums from the United States are compared with data for samples originating in Chile for 2005 and 2006. Only residues detected in more than 10 percent of all samples are included in each comparison. All pesticides detected were registered in the United States. However, the profiles of residue findings were markedly different in the United States samples versus samples from these exporting countries. The differences in residue detections between countries were due likely to the pesticides used in response to pest pressures based on differing environmental, climatic, and growing conditions.

Appendix I. Import vs. Domestic Pesticide Residue Comparisons

2005-2006 Distribution of Residues for Winter Squash United States Samples vs. Samples Originating in Mexico

Origin	Year	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections	# of Residues Detected
United States	2005	408	177	43.4	250
	2006	103	52	50.5	80
	2005-2006	511	229	44.8	330
Mexico	2005	258	98	38.0	147
	2006	237	107	45.1	162
	2005-2006	495	205	41.4	309

2005-2006 Distribution of Residues for Winter Squash Samples Originating in Mexico vs. United States (Only Pesticides with Residue Detections in at least 10 Percent of all Samples)

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Dieldrin	United States	511	53	10.4
	Mexico	495	1	0.2
Endosulfan sulfate	United States	511	73	14.3
	Mexico	495	130	26.3

NOTE: The Limits of Detection (LODs) for pesticide detections in winter squash are listed in Appendix B.

**2005-2006 Distribution of Residues for Fresh Plums
United States Samples vs. Samples Originating in Chile**

Origin	Year	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections	# of Residues Detected
United States	2005	340	197	57.9	273
	2006	319	167	52.4	233
	2005-2006	659	364	55.2	506
Chile	2005	227	224	98.7	372
	2006	192	189	98.4	363
	2005-2006	419	413	98.6	735

**2005-2006 Distribution of Residues for Fresh Plum Samples
Originating in Chile vs. United States
(Only Pesticides with Residue Detections in at least 10 Percent of all Samples)**

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Chlorpyrifos	United States	659	20	3.0
	Chile	419	110	26.3
Fludioxonil	United States	659	214	32.5
	Chile	419	0	0
Iprodione	United States	659	14	2.1
	Chile	419	397	94.7
Phosmet	United States	659	185	28.1
	Chile	419	5	1.2

NOTE: The Limits of Detection (LODs) for pesticide detections in plums are listed in Appendix B.

Appendix J

National Estimates for Concentration Percentiles vs. Tolerance

(Pairs With Residue Detections in at Least 10 Percent of Samples)

Appendix J shows 51 pesticide/commodity pairs (including metabolites, isomers, and degradates) with detections in at least 10 percent of the samples tested. Concentrations detected are arranged in percentiles. The 90th percentile is compared to the Environmental Protection Agency tolerance established for each pesticide/commodity pair.

The meaning of a percentile can be most easily explained through an example. For the bananas/thiabendazole pair, the 50th percentile, or median, is estimated to be 0.014 ppm. This means that PDP estimates that at least 50 percent of bananas available to U.S. consumers had thiabendazole residues of 0.014 ppm or less, while at least 50 percent had residues of 0.014 ppm or more. Similarly, the 75th percentile (or the upper quartile) for this pair is estimated to be 0.036 ppm, which means that at least 75 percent of bananas had thiabendazole residues of 0.036 ppm or less, while at least 25 percent had residues of 0.036 ppm or more. Finally, the 90th percentile is estimated to be 0.066 ppm, meaning that at least 90 percent of all bananas had thiabendazole residues of 0.066 ppm or less, while at least 10 percent had residues of 0.066 ppm or more.

Percent detections and percentiles for bananas, carrots, cauliflower, cranberries, eggplant, orange juice, plums, spinach, and winter squash were weighted based on marketing data.

**APPENDIX J. NATIONAL ESTIMATES FOR CONCENTRATION PERCENTILES vs. TOLERANCE
(Pairs With Residue Detections in at Least 10 Percent of Samples ¹)**

Commodity / Pesticide	% of Samples with Detections	Mean (ppm) ²		Percentiles (ppm)			Ratio of 90th Percentile to Tolerance
		Lower	Upper	50th	75th	90th	
1 Applesauce							
Acetamiprid	51.5	0.003	0.003	0.001	0.003	0.007	0.007
Carbaryl	22.2	0.002	0.003	*	*	0.002	< 0.001
Carbendazim (MBC)	82.6	0.008	0.009	0.008	0.012	0.018	0.003
Diphenylamine	30.2	0.010	0.013	*	0.007	0.033	0.003
Imidacloprid	17.5	< 0.001	0.003	*	*	< 0.001	0.001
Tetrahydrophthalimide (THPI)	21.8	0.011	0.032	*	*	0.049	0.002
Thiabendazole	38.8	0.037	0.038	*	0.006	0.13	0.013
Thiacloprid	12.8	<0.001	0.001	*	*	0.001	0.003
2 Bananas (W)							
Imazalil	31.0	0.006	0.012	*	0.010	0.019	0.006
Thiabendazole	65.6	0.026	0.030	0.014	0.036	0.066	0.022
3 Carrots (W)							
Azoxystrobin	15.7	0.001	0.001	*	*	0.002	0.005
DDE p,p'	27.1	0.003	0.005	*	0.003	0.011	0.004
Iprodione	13.1	0.007	0.033	*	*	0.038	0.008
Linuron	78.3	0.025	0.025	0.012	0.035	0.058	0.058
Pyraclostrobin	37.5	0.002	0.003	*	0.002	0.007	0.018
Trifluralin	57.4	0.021	0.025	0.003	0.034	0.066	0.066
4 Cauliflower (W)							
Imidacloprid	76.4	0.002	0.002	0.001	0.003	0.007	0.002
5 Cranberries (W) (October - December only)							
Azoxystrobin	31.4	0.001	0.001	*	0.001	0.004	0.008
Chlorpyrifos	22.4	0.006	0.010	*	*	0.026	0.026
Methoxyfenozide	14.4	0.002	0.007	*	*	0.009	0.018
6 Eggplant (W)							
Endosulfan II	13.8	0.002	0.006	*	*	0.008	0.008
Endosulfan sulfate	17.3	0.004	0.009	*	*	0.015	0.015
7 Grapefruit							
Imazalil	38.4	0.022	0.046	*	0.029	0.067	0.007
8 Orange Juice (W) (January - September only)							
Carbaryl	33.2	0.001	0.004	*	0.020	0.004	< 0.001
Imazalil	12.1	0.003	0.025	*	*	0.005	0.001
9 Peanut Butter							
Piperonyl butoxide	27.1	0.012	0.026	*	0.023	0.049	0.006

Commodity / Pesticide	% of Samples with Detections	Mean (ppm) ²		Percentiles (ppm)			Ratio of 90th Percentile to Tolerance
		Lower	Upper	50th	75th	90th	
10 Plums (W)							
Chlorpyrifos	8.9	0.001	0.004	*	*	*	*
Fludioxonil	27.8	0.107	0.19	*	*	0.34	0.068
Iprodione	10.9	0.107	0.14	*	*	0.098	0.005
Phosmet	23.9	0.004	0.006	*	*	0.011	0.002
11 Potatoes, Frozen							
Chlorpropham	61.4	0.42	0.43	0.21	0.72	1.2	0.024
Imidacloprid	33.1	0.002	0.005	<0.001	0.003	0.007	0.018
12 Raisins (July - December only)							
Boscalid	35.8	0.017	0.034	*	0.015	0.055	0.006
Methoxyfenozide	75.0	0.023	0.023	0.007	0.034	0.063	0.042
Propargite	31.5	0.030	0.059	*	0.020	0.089	0.009
Pyraclostrobin	55.6	0.007	0.007	0.003	0.008	0.017	0.002
Trifloxystrobin	25.8	0.005	0.025	*	0.001	0.012	0.002
13 Spinach (W) (January - October only)							
Azoxystrobin	10.6	0.041	0.042	*	*	0.001	< 0.001
Cypermethrin	14.7	0.056	0.17	*	*	0.21	0.021
Cyromazine	19.0	0.031	0.033	*	*	0.039	0.006
DDE p,p'	37.6	0.003	0.005	*	*	0.010	0.020
Imidacloprid	71.7	0.020	0.021	0.003	0.017	0.051	0.015
Omethoate	13.1	0.014	0.017	*	*	0.006	0.003
Permethrin cis	56.5	0.42	0.42	0.019	0.69	1.4	0.070
Permethrin trans	56.2	0.41	0.42	0.019	0.63	1.3	0.065
Pyraclostrobin	23.1	0.048	0.049	*	*	0.068	0.002
14 Sweet Peas, Frozen							
Dimethoate	12.1	0.001	0.005	*	*	0.005	0.002
15 Wheat							
Chlorpyrifos methyl	16.7	0.020	0.036	*	*	0.048	0.008
Malathion	63.0	0.061	0.062	0.010	0.034	0.12	0.015
16 Winter Squash (W) (January - September only)							
Endosulfan sulfate	29.1	0.006	0.011	*	0.008	0.023	0.023
Thiamethoxam	21.6	0.001	0.002	*	*	0.004	0.018

NOTES

¹ Includes some pairs with detections in more than 10 percent of the samples, but with estimated detections in less than 10 percent of the population. Excludes pairs with less than 100 sample observations, with observations from less than three States, or with observations from less than six months of the year (except for fresh cranberries, which are available almost exclusively in the winter).

² The mean is estimated with a range of values. The lower bound is calculated with non-detections valued at zero. The upper bound is calculated using the LOD.

* The percentile value is estimated to be below the Limit of Detection (LOD)

(W) Weighted for utilization. The Percent of Samples with Detections was recalculated to reflect national estimates.

Appendix K

Cumulative Distributions of Residues for Selected Pesticide/ Commodity Pairs

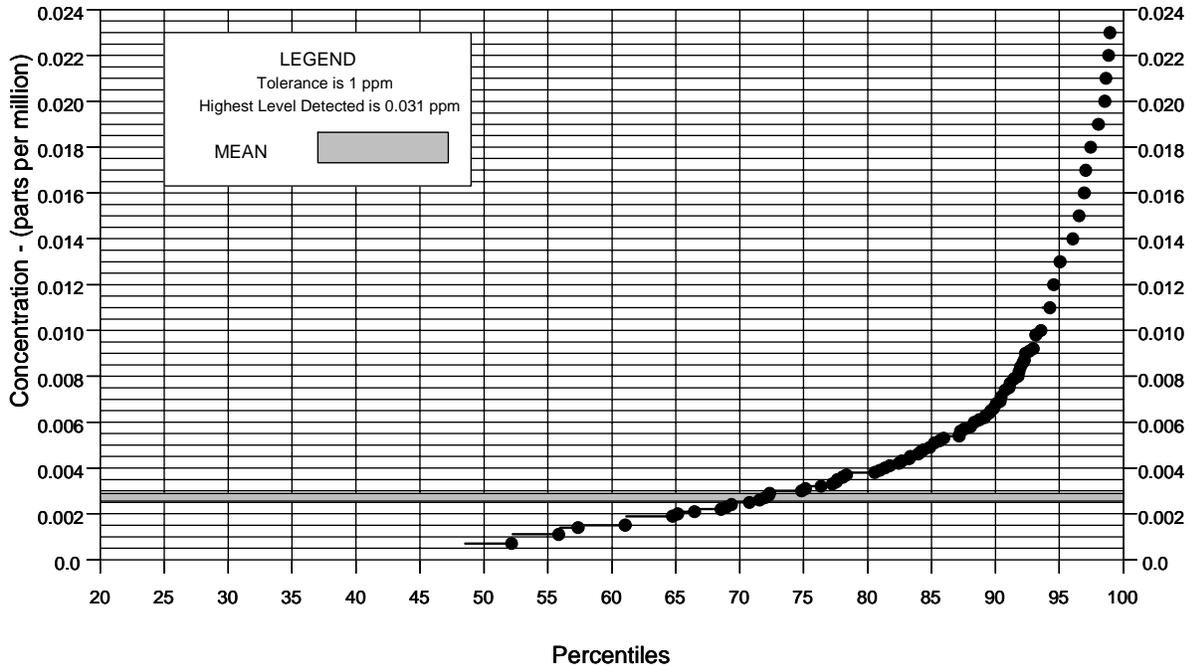
In Appendix K, the concentrations detected (in parts per million, except where otherwise noted) are plotted versus the calculated percentiles for the following 12 pesticide/commodity pairs:

- Acetamiprid / Applesauce
- Imazalil / Bananas
- Pyraclostrobin / Carrots
- Trifluralin / Carrots
- Imidacloprid / Cauliflower
- Azoxystrobin / Cranberries
- Fludioxonil / Plums
- Chlorpropham / Frozen Potatoes
- Imidacloprid / Frozen Potatoes
- Boscalid / Raisins
- Dimethoate / Frozen Sweet Peas
- Chlorpyrifos methyl / Wheat

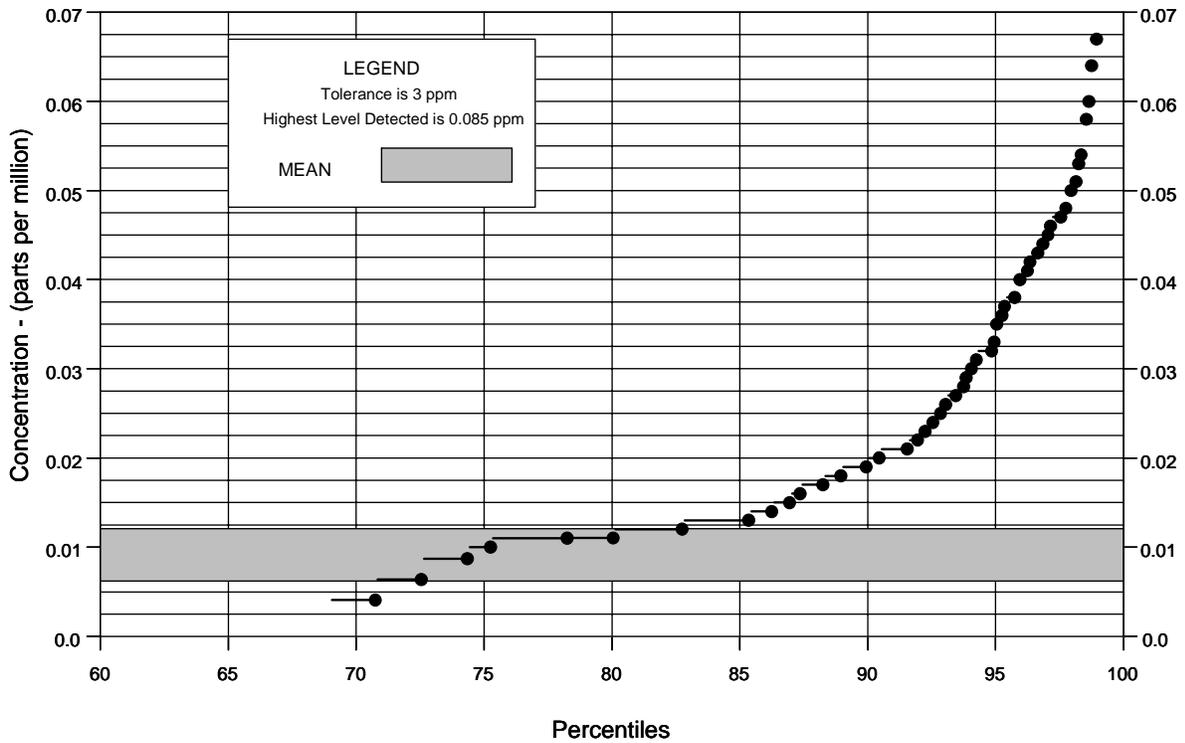
The distribution of residues for all of the PDP pesticide/commodity pairs has the same curved shape. For each pesticide/commodity pair, the highest percentile graphed in the appendix (99th) is lower than the highest concentration detected in the sample (refer to the value shown in each graph's legend). Inclusion of the highest concentration would cause graph distortion, which would obscure concentrations in the low ranges. The tolerance for the pesticide/commodity pair is also indicated in the legend of each graph. The large dots show the percentage of the commodity at or below a given level of residue concentration. For example, an estimated 50 percent of carrots available to U.S. consumers in 2006 had trifluralin residue concentrations of 0.003 ppm or less. The solid lines, tailing the large dots, depict percentage values. The lowest value of these solid lines indicates the estimated percentage of the commodity available to U.S. consumers with no detectable residues. For trifluralin in carrots, this is 43 percent. The shaded bar denotes the range of values estimated for the mean. In some cases, there is convergence of the mean upper and lower bound into a single line due to the insignificant differences between them. For trifluralin in carrots, the mean range is approximately 0.021 – 0.025 ppm, corresponding to the 66th percentile.

Appendix K. Cumulative Distributions of Residues for Selected Pesticide/Commodity Pairs

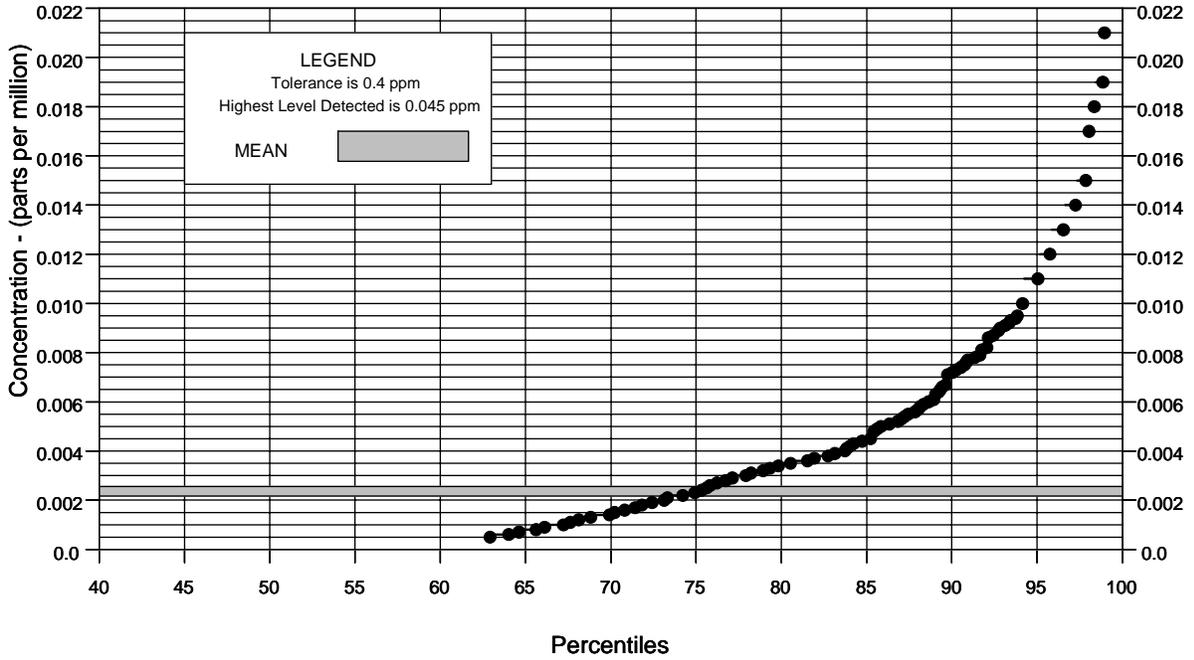
Acetamiprid / Applesauce



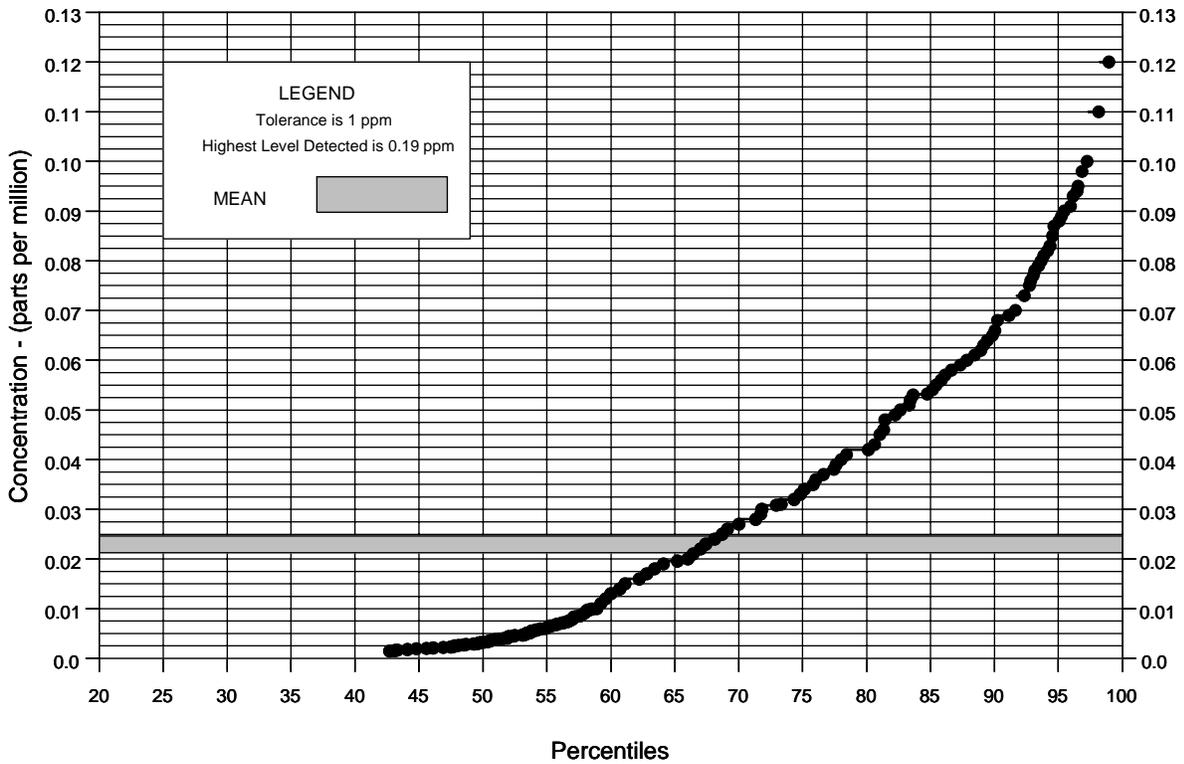
Imazalil / Bananas



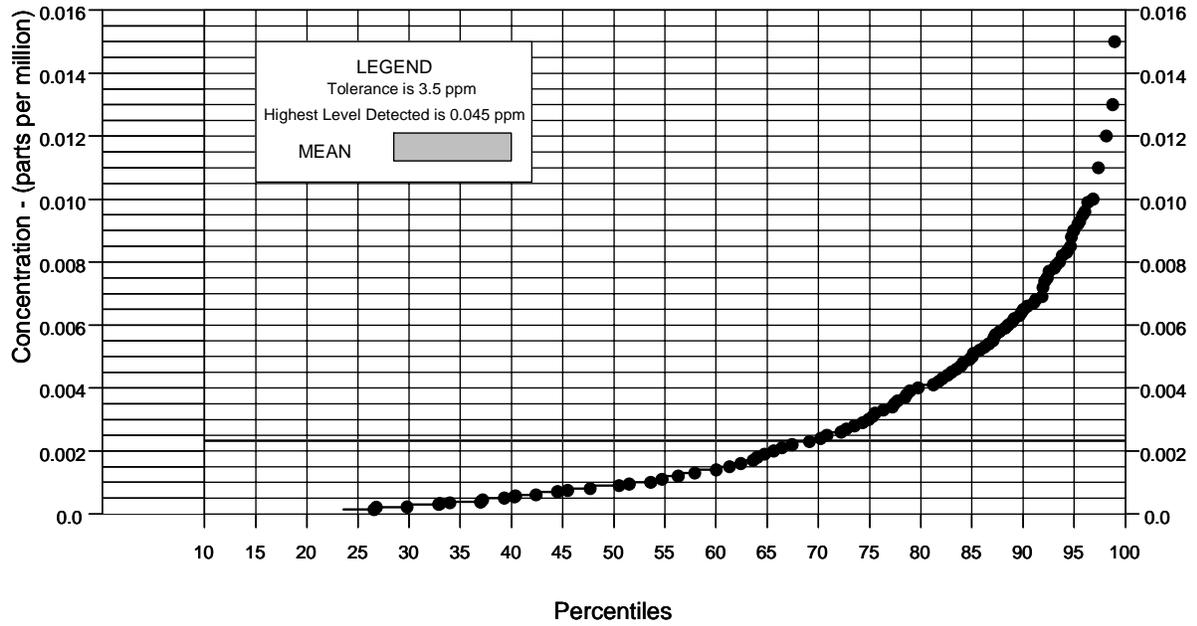
Pyraclostrobin / Carrots



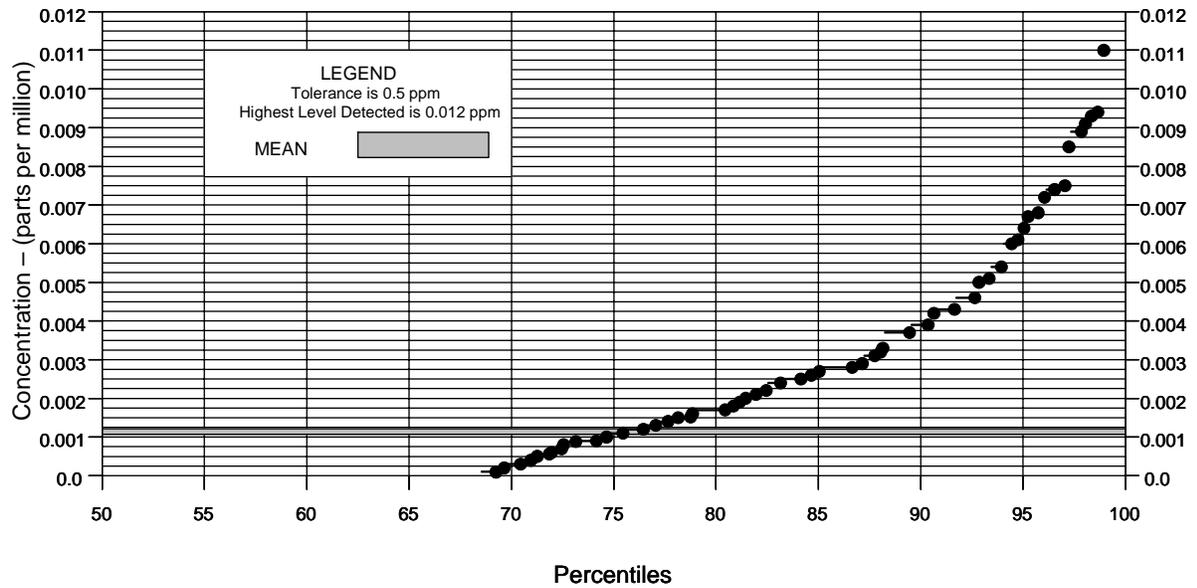
Trifluralin / Carrots



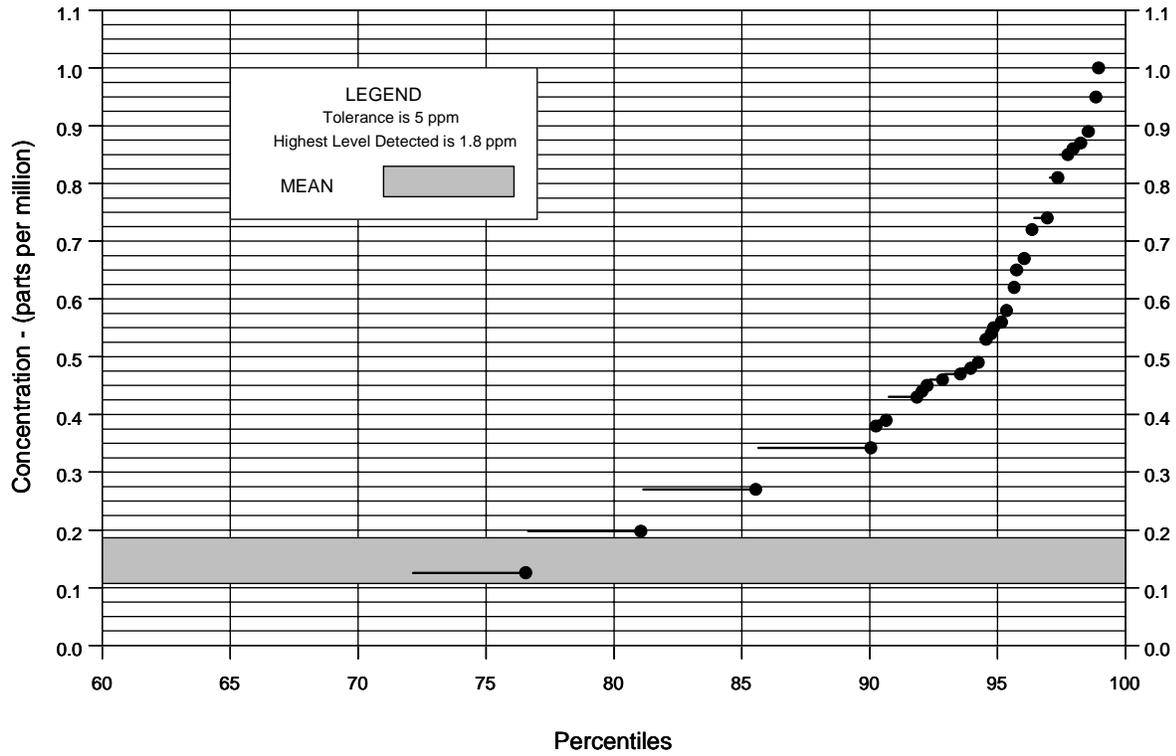
Imidacloprid / Cauliflower



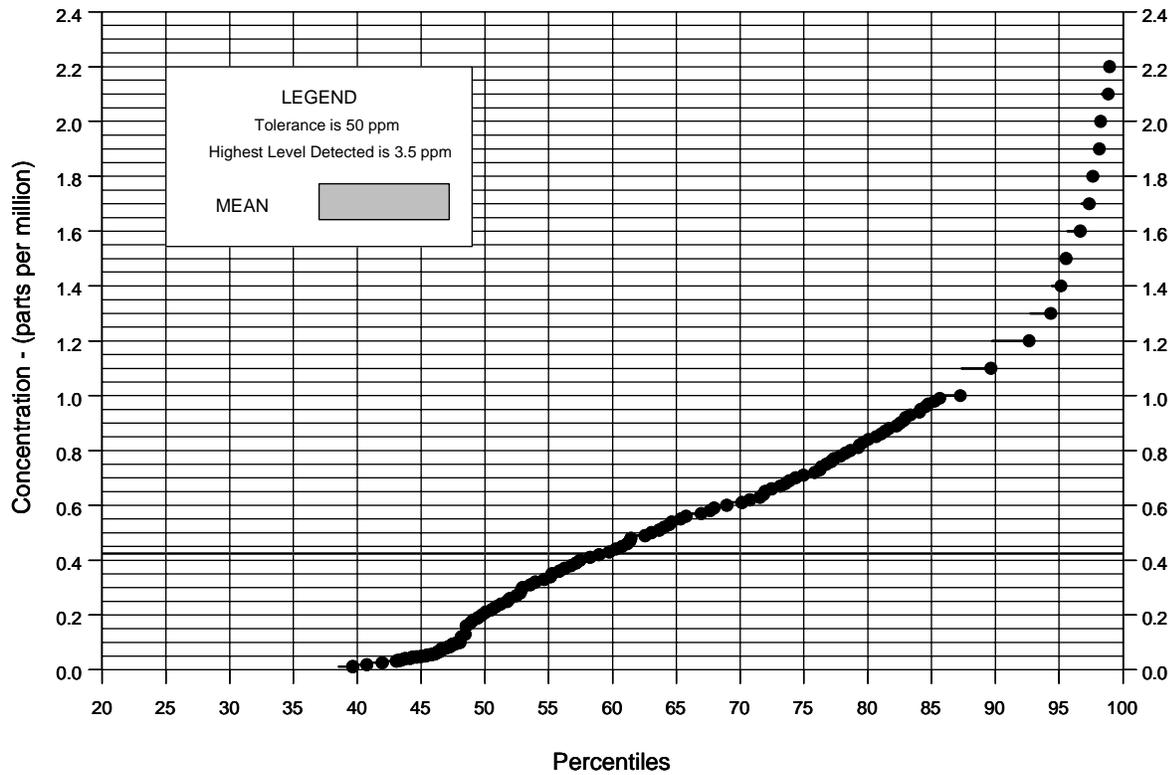
Azoxystrobin / Cranberries



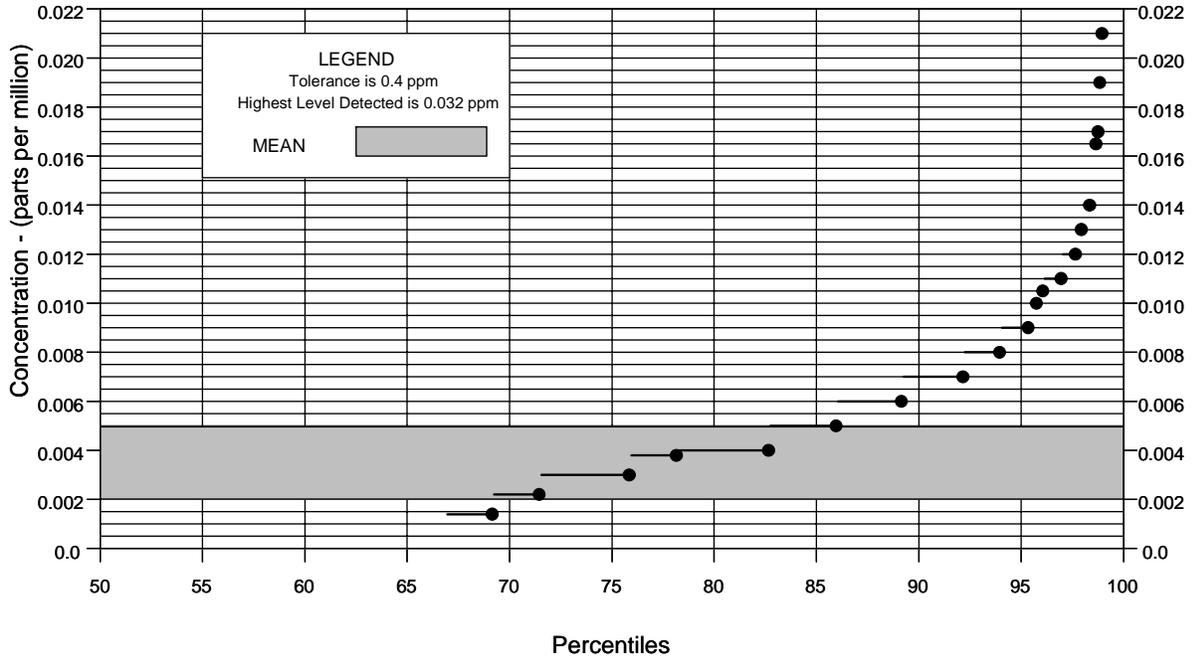
Fludioxonil / Plums



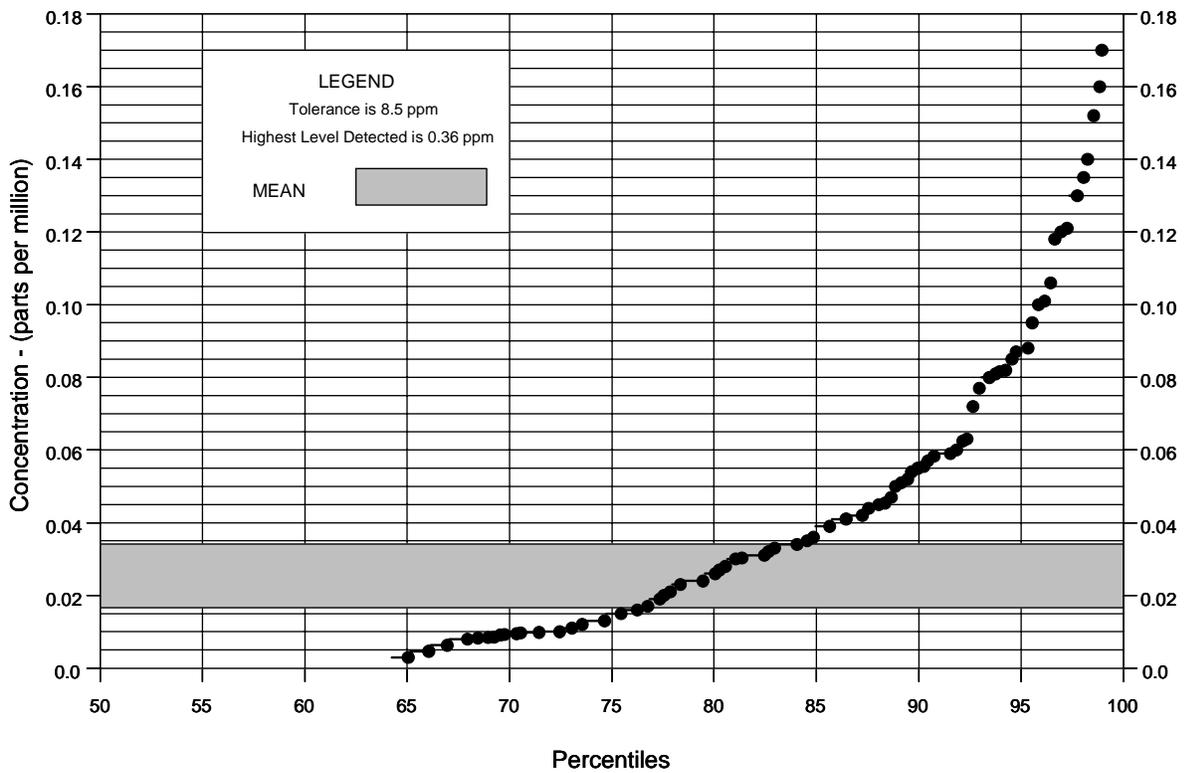
Chlorpropham / Potatoes (Frozen)



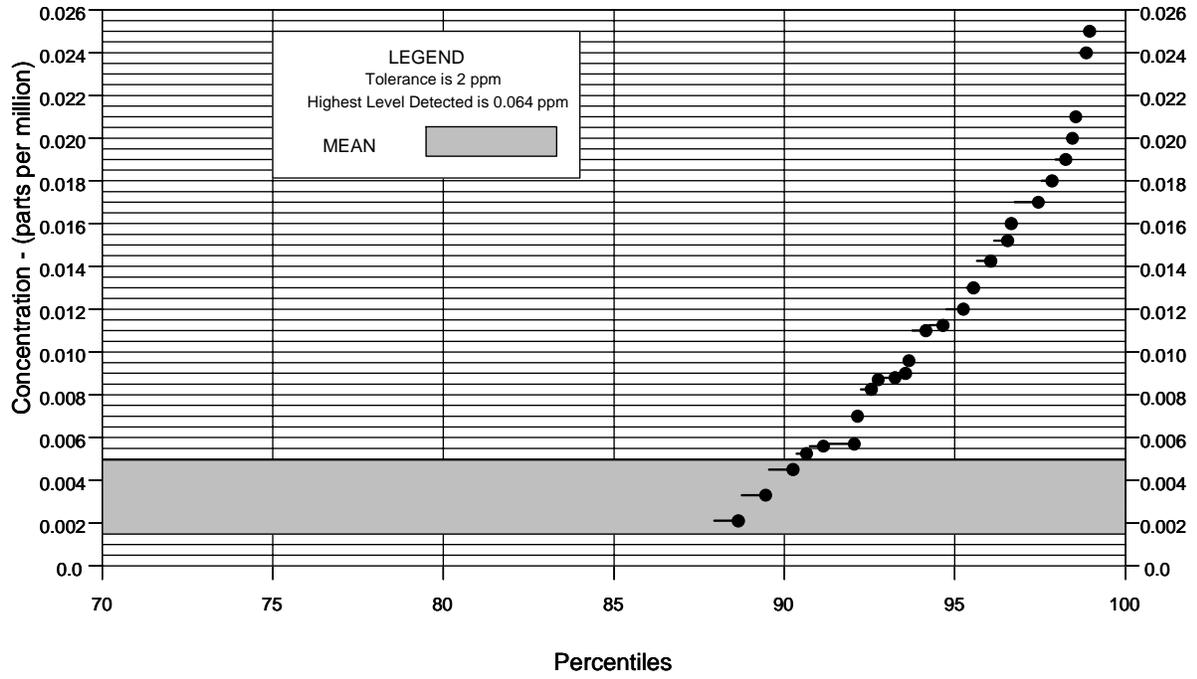
Imidacloprid / Potatoes (Frozen)



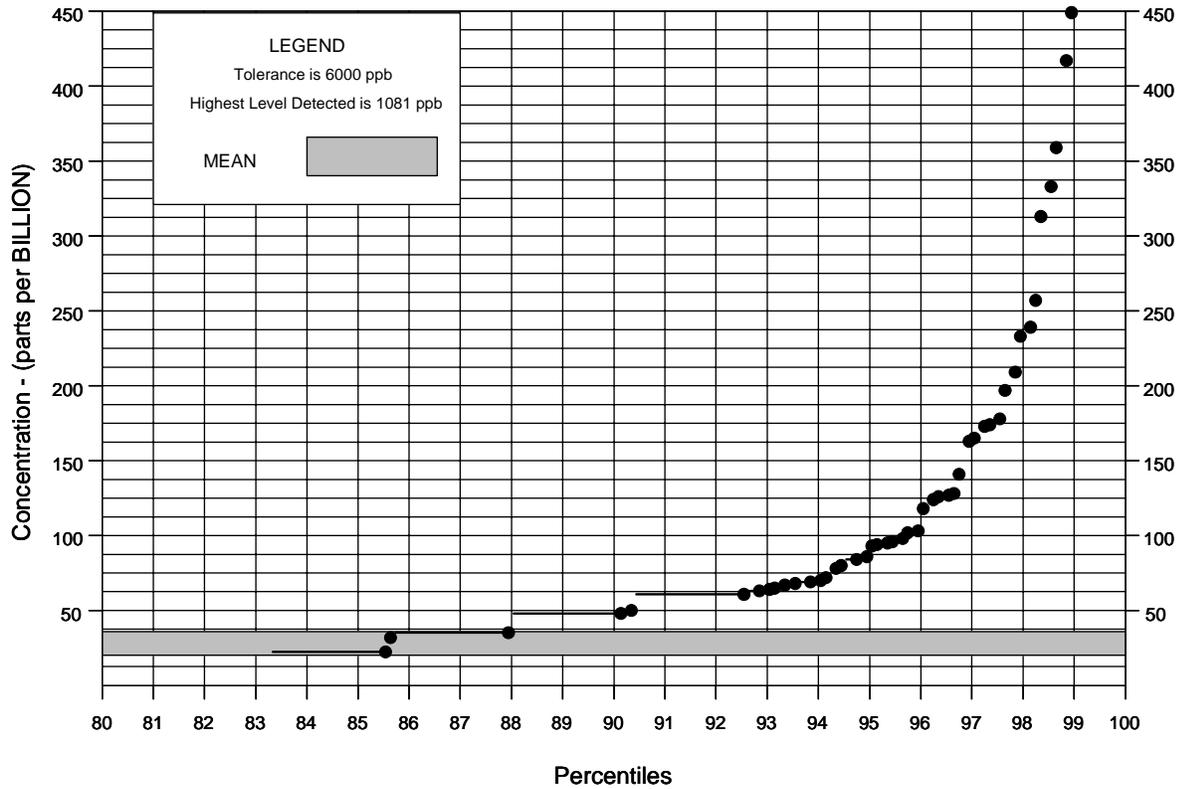
Boscalid / Raisins



Dimethoate / Sweet Peas (Frozen)



Chlorpyrifos methyl / Wheat



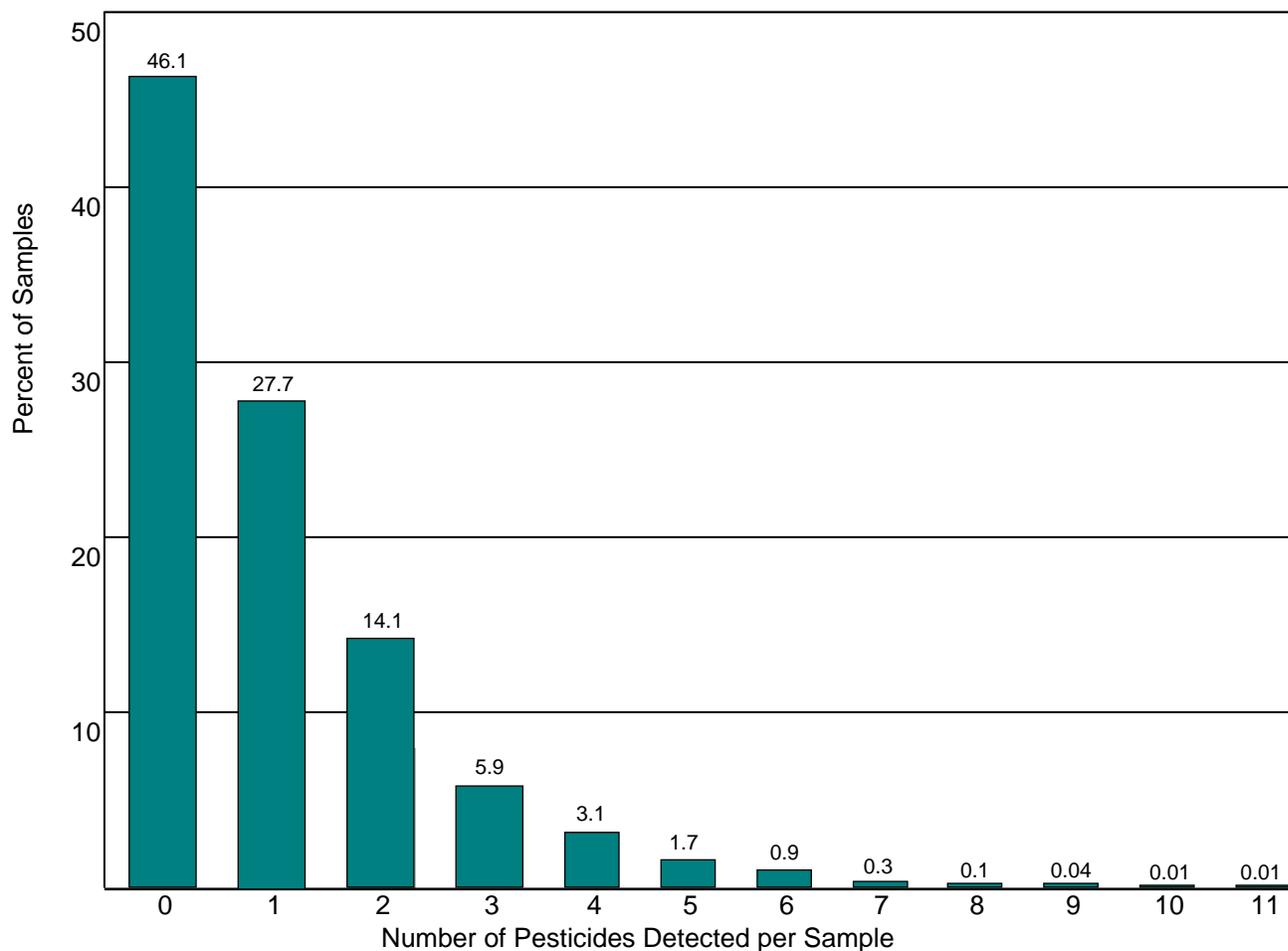
Appendix L

Number of Pesticides Detected per Sample

Appendix L shows the percentage of samples versus the number of pesticides detected per sample, excluding drinking water samples. The graph and data on page 1 show the overall number of samples and percentages (of total number of samples analyzed) for each detection group across all commodities. The table on page 2 shows the number of pesticides detected by individual commodity. For the 12,921 samples analyzed, 46.1 percent of the samples had no detectable pesticides, 27.7 percent had 1 pesticide, and 26.2 percent of the samples had more than 1 pesticide.

This appendix reports the number of distinct pesticides rather than residues, as was reported in summaries prior to 2003. A parent compound and its metabolites are reported as a single pesticide. For example, a single application of the pesticide endosulfan may result in residues of the parent compound endosulfan I, its endosulfan II isomer, and its endosulfan sulfate metabolite. Thus, three residue detections could result from the use of a single pesticide. In the 2002 and previous summaries, the corresponding appendix would have counted these results as three distinct residues, while this appendix counts the findings as just one distinct pesticide.

APPENDIX L. SAMPLES vs. NUMBER OF PESTICIDES¹ DETECTED PER SAMPLE²



	Number of Pesticides Detected per Sample											
	0	1	2	3	4	5	6	7	8	9	10	11
Number of Samples	5,958	3,581	1,819	767	400	217	119	41	12	5	1	1
Percent of Total Samples	46.1	27.7	14.1	5.9	3.1	1.7	0.9	0.3	0.1	0.04	0.01	0.01

TOTAL NUMBER OF SAMPLES = 12,921

Multiple pesticide detections may result from: application of more than one pesticide, spray drift, crop rotation, cross-contamination, and/or indicate the presence of environmental contaminants.

NOTES

¹ Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues," as was reported in summaries prior to 2003. For example, a sample with positive detections for Endosulfan I, II, and sulfate would have been counted as three residues detected in the 2002 Appendix L. That same sample would be counted as just one pesticide detected in this appendix.

² Excludes treated/untreated drinking water samples.

APPENDIX L. SAMPLES vs. NUMBER OF PESTICIDES DETECTED PER SAMPLE

Commodity (# of samples)	Number of Pesticides ¹ Detected per Sample ²											
	0	1	2	3	4	5	6	7	8	9	10	11
Fresh Fruit and Vegetables:												
	Percent											
Bananas (742)	24.1	45.4	27.8	2.6	--	--	--	--	0.1	--	--	--
Broccoli (185)	11.9	32.4	38.9	12.4	3.2	1.1	--	--	--	--	--	--
Carrots (744)	16.3	28.4	23.1	16.5	9.7	3.6	2.3	--	0.1	--	--	--
Cauliflower (558)	19.7	71.5	7.2	1.4	0.2	--	--	--	--	--	--	--
Cranberries (316)	30.7	44.3	10.4	8.2	5.4	0.6	0.3	--	--	--	--	--
Eggplant (740)	74.2	21.9	3.2	0.7	--	--	--	--	--	--	--	--
Grapefruit (743)	53.6	26.2	18.7	1.5	--	--	--	--	--	--	--	--
Greens, Collard (86)	26.7	31.4	12.8	8.1	10.5	7.0	2.3	--	1.2	--	--	--
Greens, Kale (98)	29.6	17.3	13.3	13.3	7.1	7.1	3.1	3.1	2.0	3.1	1.0	--
Peaches (90)	1.1	5.6	12.2	16.7	17.8	18.9	14.4	12.2	1.1	--	--	--
Plums (515)	30.7	33.8	26.6	7.6	1.4	--	--	--	--	--	--	--
Spinach (511)	6.3	11.9	18.0	22.9	18.6	12.7	6.1	2.5	0.8	0.2	--	--
Summer Squash (186)	5.4	50.0	31.2	11.8	1.1	0.5	--	--	--	--	--	--
Watermelon (550)	75.3	17.1	6.0	1.1	0.4	--	0.2	--	--	--	--	--
Winter Squash (369)	54.2	29.3	11.9	4.1	0.5	--	--	--	--	--	--	--
Processed Fruit and Vegetables:												
Apple Sauce (744)	7.1	15.1	24.1	22.0	16.9	8.7	5.0	0.8	0.1	0.1	--	--
Orange Juice (557)	46.7	39.0	12.0	1.8	0.5	--	--	--	--	--	--	--
Plums, Dried (224)	89.7	8.5	1.3	--	0.4	--	--	--	--	--	--	--
Potatoes, Frozen (744)	12.2	43.4	32.0	10.9	1.5	--	--	--	--	--	--	--
Raisins (372)	37.4	27.2	13.2	4.3	4.8	6.7	3.8	2.2	0.3	--	--	0.3
Sweet Peas, Frozen (744)	84.7	12.6	2.2	0.5	--	--	--	--	--	--	--	--
Percent of Total Samples	37.9	30.0	16.7	7.4	4.0	2.2	1.2	0.4	0.1	0.05	0.01	0.01
Actual Number of Samples	3,717	2,949	1,637	724	395	217	119	41	12	5	1	1
TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 9,818												
Processed Nut Product:												
Peanut Butter (739)	69.8	28.0	2.2	--	--	--	--	--	--	--	--	--
Actual Number of Samples	516	207	16	--	--	--	--	--	--	--	--	--
Grain Product:												
Wheat (687)	30.9	45.4	19.8	3.3	0.6	--	--	--	--	--	--	--
Actual Number of Samples	212	312	136	23	4	--	--	--	--	--	--	--
Meat Tissues:												
Poultry, Breast (655)	93.9	4.9	1.1	0.2	--	--	--	--	--	--	--	--
Poultry, Thigh (655)	91.8	5.6	2.0	0.6	--	--	--	--	--	--	--	--
Percent of Total Samples	92.8	5.3	1.5	0.4	--	--	--	--	--	--	--	--
Actual Number of Samples	1,216	69	20	5	--	--	--	--	--	--	--	--
Water Product:												
Bottled Water (367)	80.9	12.0	2.7	4.1	0.3	--	--	--	--	--	--	--
Actual Number of Samples	297	44	10	15	1	--	--	--	--	--	--	--

NOTES

¹ Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues."

² Excludes the 737 drinking water samples.

Appendix M

Fruit and Vegetable Samples Reported to the U.S. Food and Drug Administration as Exceeding the Tolerance or Without Established Tolerance (per Code of Federal Regulations, Title 40, Part 180)

Appendix M shows residues reported to FDA as exceeding the tolerance or residues for which no established tolerance was listed under the Code of Federal Regulations (CFR), Title 40, Part 180. In 2006, a total of 412 samples with 442 residues were reported to the FDA as Presumptive Tolerance Violations.

A total of 30 fruit and vegetable samples and 1 wheat sample were found to have residues at levels exceeding the established tolerance. Fruit and vegetable samples containing a residue exceeding an established tolerance included 1 cranberry sample, 3 eggplant samples, 1 collard green sample, 1 kale sample, 2 plum samples, 7 spinach samples, 13 watermelon samples, and 1 winter squash sample. Of those 31 samples, 12 were reported as imported produce.

In addition, 387 samples were found to have residues for which no tolerance was established, including 304 fruit and vegetable samples, 13 poultry breast samples, 14 poultry thigh samples, and 56 wheat samples.

- 367 samples contained 1 residue for which no tolerance was established.
- 17 samples contained 2 residues for which no tolerance was established.
- 2 samples contained 3 residues for which no tolerance was established.
- 1 sample contained 4 residues for which no tolerance was established.

Six of the 387 samples also contained 1 residue each that exceeded an established tolerance.

The columns under the Sample Origin heading provide the number of samples that were of domestic, import, or unknown origin for each pesticide/commodity pair listed.

Appendix M also notes if metabolites (or isomers) were detected as part of the same sample. In instances where both parent and metabolite (or isomer) were detected, PDP accounted for both as part of the same tolerance expression.

**APPENDIX M. SAMPLES REPORTED TO FDA AS EXCEEDING THE TOLERANCE
OR WITHOUT ESTABLISHED TOLERANCE
(per Code of Federal Regulations, Title 40, Part 180)**

Residues Exceeding Established Tolerance

Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Sample Origin
1 Cranberries / Spinosad	0.003	0.025	0.01	U.S.
2 Eggplant / Acephate	0.005	0.70	0.02	U.S.
3 Eggplant / Acephate	0.005	0.18	0.02	U.S.
4 Eggplant / Acephate	0.005	0.050	0.02	U.S.
5 Greens, Collard / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.14	0.01	U.S.
6 Greens, Kale / Cyhalothrin, Lambda	0.006	0.050	0.01	U.S.
7 Greens, Kale / Cyhalothrin, Lambda	0.006	0.027	0.01	U.S.
8 Plums / Chlorpyrifos	0.003	0.18	0.05	Import
9 Plums / Chlorpyrifos	0.008	0.068	0.05	Import
10 Spinach / Acephate	0.002	0.081	0.02	U.S.
11 Spinach / Acetamiprid	0.0006	0.55	0.20	U.S.
12 Spinach / Acetamiprid	0.001	0.24	0.20	U.S.
13 Spinach / Acetamiprid	0.0006	0.24	0.20	U.S.
14 Spinach / Acetamiprid	0.0006	0.24	0.20	U.S.
15 Spinach / Cyhalothrin, Lambda	0.006	0.14	0.01	U.S.
16 Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.006	0.12	0.01	U.S.
17 Watermelon / Acephate	0.002	0.31	0.02	Import
18 Watermelon / Acephate	0.005	0.27	0.02	U.S.
19 Watermelon / Acephate	0.002	0.24	0.02	Import
20 Watermelon / Acephate	0.005	0.20	0.02	Import
21 Watermelon / Acephate	0.005	0.19	0.02	Import
22 Watermelon / Acephate	0.002	0.16	0.02	Import
23 Watermelon / Acephate	0.005	0.14	0.02	Import
24 Watermelon / Acephate	0.005	0.13	0.02	Import
25 Watermelon / Acephate	0.005	0.092	0.02	U.S.
26 Watermelon / Acephate	0.002	0.081	0.02	Import
27 Watermelon / Acephate	0.002	0.069	0.02	Import
28 Watermelon / Acephate	0.005	0.069	0.02	U.S.
29 Watermelon / Acephate	0.005	0.032	0.02	U.S.
30 Wheat / Carbofuran	34 (ppb)	169 (ppb)	100 (ppb)	U.S.
31 Winter Squash / Acephate	0.005	0.041	0.02	Import

**Distribution of Residues with No Tolerance Listed in 40 CFR, Part 180,
by Commodity/Pesticide**

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin		
						U.S.	Import	Unk.
1 Applesauce								
Diflubenzuron	528	24	4.5	0.011 ^	0.007 ^	24	0	0
Pirimiphos methyl	528	1	0.2	0.004 ^	0.002 ^	1	0	0
2 Bananas								
Diphenylamine (DPA)	526	1	0.2	0.10 ^	0.015 ^	0	1	0
Fenthion	526	1	0.2	0.012 ^	0.008 ^	0	1	0
Fonofos	742	1	0.1	0.008 ^	0.002 - 0.005	0	1	0
o-Phenylphenol ¹	742	31	4.2	0.034 - 0.068	0.015 - 0.033	0	31	0
Parathion methyl	262	1	0.4	0.007 ^	0.004 ^	0	1	0
Pyridaben	1	1	100	0.025 ^	0.015 ^	0	1	0
3 Broccoli								
Dicloran	185	5	2.7	0.003 ^	0.002 ^	5	0	0
Thiabendazole	185	3	1.6	0.0002 ^	0.0001 ^	2	0	1
4 Carrots								
Pentachlorobenzene (PCB) ²	1	1	100	0.003 ^	0.002 ^	1	0	0
Quintozene (PCNB) ²	2	2	100	0.012 - 0.079	0.003 ^	2	0	0
5 Cauliflower								
Buprofezin	558	1	0.2	0.0002 ^	0.0001 - 0.0002	0	1	0
Iprodione	558	2	0.4	0.014 ^	0.008 ^	0	2	0
Thiabendazole	558	3	0.5	0.0002 - 0.001	0.0001 - 0.0002	2	1	0
6 Eggplant								
Chlorothalonil	740	3	0.4	0.012 - 0.045	0.007 ^	2	0	1
7 Greens, Collard								
Chlorothalonil	1	1	100	0.013 ^	0.008 ^	1	0	0
Dinotefuran	69	5	7.2	0.017 - 0.29	0.010 ^	5	0	0
Thiamethoxam	69	4	5.8	0.021 - 0.026	0.010 ^	4	0	0
8 Greens, Kale								
3-Hydroxycarbofuran	61	1	1.6	0.018 ^	0.010 ^	1	0	0
Chlorothalonil	1	1	100	0.45 ^	0.008 ^	1	0	0
Clothianidin	61	1	1.6	0.011 ^	0.010 ^	1	0	0
Dicloran	53	2	3.8	0.010 - 0.020	0.006 - 0.013	2	0	0
Dinotefuran	61	1	1.6	0.45 ^	0.010 ^	1	0	0
Indoxacarb	98	4	4.1	0.008 - 0.073	0.005 - 0.010	4	0	0
o-Phenylphenol ¹	98	4	4.1	0.035 - 0.038	0.015 - 0.033	4	0	0
Permethrin cis ³	37	1	2.7	0.067 ^	0.012 ^	1	0	0
Permethrin Total	61	1	1.6	0.25 ^	0.10 - 0.13	1	0	0
Permethrin trans ³	37	1	2.7	0.062 ^	0.012 ^	1	0	0
Thiamethoxam	61	2	3.3	0.050 - 0.058	0.010 ^	2	0	0
Trifloxystrobin	61	1	1.6	0.006 ^	0.005 ^	0	1	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin		
						U.S.	Import	Unk.
9 Peaches								
Imazalil	30	1	3.3	0.050 ^	0.030 ^	0	1	0
Propargite	75	14	18.7	0.033 - 0.53	0.020 ^	14	0	0
Thiabendazole	31	3	9.7	0.002 - 0.13	0.001 - 0.030	0	3	0
10 Potatoes, Frozen								
Ethion	1	1	100	0.008 ^	0.005 ^	0	1	0
o-Phenylphenol ¹	744	32	4.3	0.017 - 0.084	0.010 - 0.033	28	3	1
11 Poultry, Breast (in parts per billion)								
				(ppb)	(ppb)			
MGK-264	655	13	2	5.0 - 81	3.0 ^	13	0	0
12 Poultry, Thigh (in parts per billion)								
				(ppb)	(ppb)			
MGK-264	655	14	2.1	5.0 - 221	3.0 ^	14	0	0
13 Spinach								
3-Hydroxycarbofuran	366	2	0.5	0.001 - 0.004	0.0006 ^	2	0	0
Chlorothalonil	3	3	100	0.013 - 0.13	0.008 ^	3	0	0
DCPA	367	33	9	0.001 - 0.043	0.0007 - 0.003	30	3	0
Diazinon oxygen analog	511	1	0.2	0.005 ^	0.003 ^	1	0	0
Dicloran	366	12	3.3	0.003 - 0.010	0.002 ^	12	0	0
Dimethomorph	366	8	2.2	0.003 - 0.010	0.002 ^	8	0	0
Etoxazole	366	2	0.5	0.0002 ^	0.0001 ^	2	0	0
Iprodione	368	5	1.4	0.014 - 0.074	0.008 - 0.015	5	0	0
Linuron	366	10	2.7	0.005 - 0.031	0.003 ^	8	2	0
Metribuzin	366	4	1.1	0.022 - 0.084	0.013 ^	4	0	0
Pentachloroaniline (PCA)	366	3	0.8	0.002 ^	0.001 ^	3	0	0
Piperonyl butoxide	367	3	0.8	0.008 - 0.040	0.005 - 0.010	3	0	0
Pirimiphos methyl	366	4	1.1	0.004 - 0.018	0.002 ^	3	1	0
Pyrimethanil	366	3	0.8	0.0005 - 0.005	0.0003 ^	3	0	0
Thiabendazole	375	14	3.7	0.0008 - 0.007	0.0005 - 0.001	14	0	0
Thiacloprid	366	1	0.3	0.0007 ^	0.0004 ^	0	1	0
14 Summer Squash								
Clothianidin	54	3	5.6	0.003 ^	0.002 ^	0	3	0
o-Phenylphenol ¹	54	11	20.4	0.036 - 0.052	0.033 ^	4	7	0
15 Sweet Peas, Frozen								
DCPA	529	2	0.4	0.004 - 0.005	0.002 - 0.003	2	0	0
o-Phenylphenol ¹	524	17	3.2	0.039 - 0.19	0.015 - 0.033	17	0	0
Thiabendazole	486	2	0.4	0.002 ^	0.001 - 0.050	2	0	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin		
						U.S.	Import	Unk.
16 Watermelon								
Allethrin	189	4	2.1	0.017 - 0.029	0.015 ^	0	4	0
Clothianidin	370	3	0.8	0.003 - 0.040	0.002 - 0.010	0	3	0
Hexaconazole	190	1	0.5	0.033 ^	0.010 - 0.020	1	0	0
Imazalil	189	1	0.5	0.016 ^	0.010 ^	0	1	0
Thiabendazole	190	2	1.1	0.005 - 0.017	0.001 - 0.010	0	2	0
17 Wheat (in parts per billion)								
				(ppb)	(ppb)			
Methoprene	667	18	2.7	22 - 362	13 ^	18	0	0
Methoxychlor p,p'	687	29	4.2	8.0 ^	5.0 ^	29	0	0
Pirimiphos methyl	687	11	1.6	5.0 - 12	3.0 ^	11	0	0
18 Winter Squash								
Hexaconazole	2	2	100	0.033 - 0.35	0.020 ^	0	2	0
Metribuzin	262	1	0.4	0.11 ^	0.016 - 0.030	0	1	0
o-Phenylphenol ¹	369	3	0.8	0.034 - 0.037	0.008 - 0.033	1	2	0
Piperonyl butoxide	369	4	1.1	0.014 ^	0.008 - 0.010	3	1	0

NOTES

- ¹ o-Phenylphenol is a disinfectant approved for use in food handling establishments, including production facilities for commodities identified above.
- ² Pentachlorobenzene (PCB) metabolite was detected within the same sample as Quintozene (PCNB).
- ³ Permethrin cis and trans isomers were detected within the same sample.

Note:

For those pesticide/commodity pairs where the minimum detected value is less than the limit of quantitation (three times the limit of detection), the reported values are estimates. In a few cases, this may apply to the maximum detected value.

PESTICIDE DATA PROGRAM

Annual Summary Calendar Year 2006

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