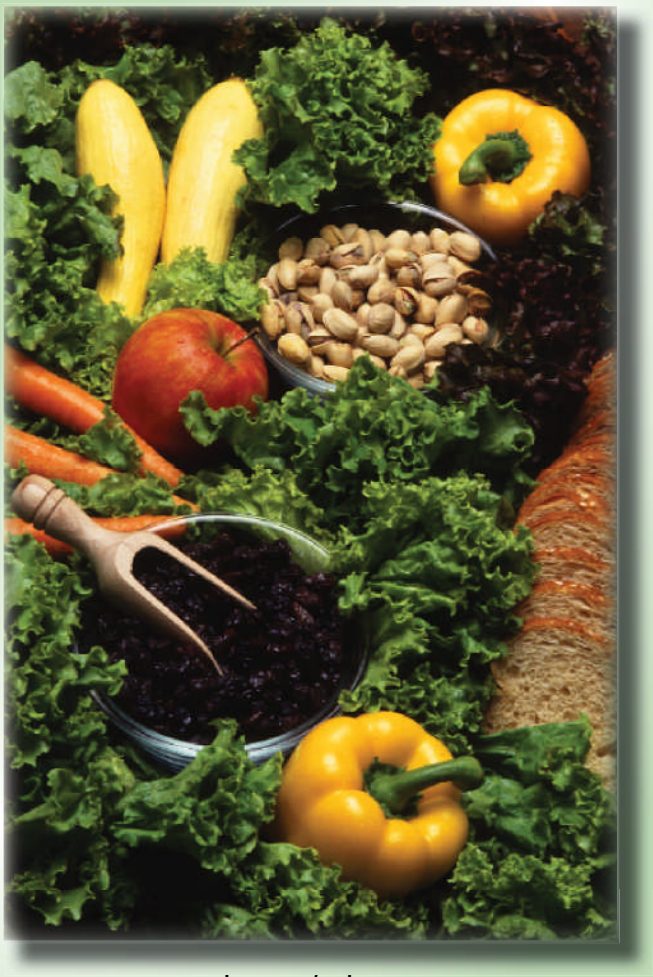
Pesticide Data Program

Annual Summary, Calendar Year 2008

United States Department of Agriculture

Agricultural Marketing Service

Science and Technology Programs



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

December 2009

United States Department of Agriculture

Marketing and Regulatory Programs

Agricultural Marketing Service

1400 Independence Ave. Washington, DC 20250

December 2009

To the Reader:

I am pleased to present the Pesticide Data Program's (PDP) 18th Annual Summary, which includes data from calendar year 2008. 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 and nut products, milk and dairy products, beef, pork, poultry, catfish, corn syrup products, honey, pear juice concentrate, barley, oats, rice, bottled water, groundwater, and treated and untreated drinking water 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 2008: 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 more than half 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 at the end of this report for your comments and suggestions on how we can further improve this summary.

Sincerely,

Rayne Pegg
Administrator

Contents

Figures **Page No.**

Tables

Appendices A-N

Acknowledgements

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, the U.S. Department of Agriculture's (USDA) AMS National Science Laboratory, the Grain Inspection, Packers and Stockyards Administration Laboratory and the U.S. Environmental Protection Agency's Analytical Chemistry Laboratory in providing testing services to the program, and the USDA 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 18th summary presents results for samples collected in 2008.

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 for continuing pesticide re-registration activities in accordance with the 1996 Food Quality Protection Act (FQPA) and ongoing registration review responsibilities. 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 or fewer acres in the United States – 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 also provides data to support technical activities for the Codex Committee on Pesticide Residues.

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 a pesticide is applied to the fullest extent permitted by the pesticide label, which 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 levels. 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 most often consumed by infants and children and incorporates recommendations made by the National Academy of Sciences (NAS) in its 1993 report *Pesticides in the Diets of Infants and Children*.

Participants: In 2008, 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 Federal Grain Inspection Service (FGIS). Three Federal laboratories also provided testing services: USDA's AMS National Science Laboratory (NSL), USDA's Grain Inspection, Packers and Stockyards Administration (GIPSA) Laboratory, and U.S. EPA's Analytical Chemistry Laboratory (ACL). Participating water utilities provided drinking water samples that were tested by the Montana

and New York State laboratories. Groundwater samples from domestic wells were collected by homeowners 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 that ensures the data are reliable for use in exposure assessments and that 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, almond, honey, catfish, and rice 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 farm gate) 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 are based on production.

Results: During 2008, PDP tested 13,380 fresh and processed fruit and vegetables, almonds, honey, catfi sh, corn grain, rice, groundwater, and treated and untreated drinking water for various insecticides, herbicides, fungicides, and growth regulators. Of the 13,380 total samples collected and analyzed, 10,382 were fresh and processed fruit and vegetables, including: apple juice, asparagus, blueberries (fresh/frozen), broccoli, canned kidney beans, celery, grape juice, green beans, green onions, greens (collard/kale), nectarines, peaches, potatoes, spinach, strawberries, summer squash, sweet corn (fresh on-the-cob/frozen), sweet potatoes, and tomatoes. PDP also tested 186 almond, 558 honey, 552 catfish, 650 corn grain, 184 rice, 249 groundwater, and 619 treated and untreated drinking water samples.

For fresh and processed fruit and vegetables, almonds, honey, catfish, and rice, approximately 76.4 percent of all samples tested were from U.S. sources, 19.8 percent were imports, 2.7 percent were of mixed national origin, and 1.1 percent were of unknown origin. Approximately 20 percent of the apple juice samples and 29 percent of the honey samples were of mixed national origin. Corn grain, groundwater, and treated and untreated drinking water were all from U.S. sources.

Of the 11,960 samples of fresh and processed fruit and vegetables, almonds, honey, corn grain, and rice samples analyzed, the overall percentage of total residue detections was 1.6 percent. The percent of total residue detections is obtained by comparing the total number of residues detected and the total number of analyses performed for each commodity. The percentage of total residue detections for fresh fruit and vegetables ranged from 0 to 3.3 percent, with a mean of 1.9 percent. The percentage of total residue detections for processed fruit and vegetables ranged from 0 to 2.2 percent, with a mean of 0.6 percent. The percentage of total residue detections for almonds was 1.4 percent, for honey was 0.4 percent, for corn grain was 0.7 percent, and for rice was 0.7 percent.

For samples containing residues, the vast majority of the detections were well below established tolerances and/or action levels. Before allowing the use of a pesticide on food crops, EPA sets a tolerance, or maximum residue limit, which is the amount of pesticide residue allowed to remain in or on each treated food commodity. Established tolerances are listed in the Code of Federal Regulations, Title 40, Part 180. In setting the tolerance, EPA must make a safety finding that the pesticide can be used with "reasonable certainty of no harm" and that residues at (or below) the tolerance are safe. The reporting of residues present at levels below the established tolerance serves to ensure and verify the safety of the Nation's food supply.

Excluding catfish, groundwater, and treated and untreated drinking water, 30 percent of all samples tested contained no detectable pesticides [parent compound and metabolite(s) combined], 24 percent contained 1 pesticide, and 46 percent

contained more than 1 pesticide. Low levels of environmental contaminants were detected in celery, collard and kale greens, spinach, summer squash, and catfish at concentrations well below levels that trigger regulatory actions. Residues exceeding the tolerance were detected in 60 (0.5 %) of the 11,960 samples tested in 2008 – 58 samples contained one residue exceeding the established tolerances and two samples contained two residues exceeding the established tolerance. Residues with no established tolerance were found in 442 (3.7 %) of the 11,960 samples (413 samples with 1 residue each, 23 samples with 2 residues each, 4 samples with 3 residues each, and 2 samples with 4 residues each). In most cases, these residues were detected at very low levels and some residues may have resulted from spray drift or crop rotations.

For groundwater, 59 of the 135 collection sites (44%) contained low levels of detectable residues, measured in parts per trillion. Forty-four different pesticide residues (including metabolites) were detected in groundwater.

In finished drinking water, PDP detected low levels (measured in parts per trillion) of some pesticides, primarily widely used herbicides and their metabolites. Fifty-nine different residues were detected in the finished drinking water and 63 residues were detected in the untreated intake 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 (MCLs), Health Advisory (HA) levels, or established Freshwater Aquatic Organism (FAO) criteria.

What Consumers Should Know: The purpose of PDP is to provide EPA with information about the level of pesticides being indirectly consumed by the general public through foods. This information is used to assist EPA in establishing and reviewing the effectiveness of existing pesticide residue limits to protect public health. PDP is required by law to focus on products frequently consumed by infants and children.

PDP laboratory operations are designed to detect the smallest possible levels of pesticide residues possible, even when those levels are well below the safety margins established by EPA. It is important to note that the mere presence of a pesticide on food does not indicate the food is unsafe. In 2008, PDP analyzed 11,960 samples of fresh and processed food commodities (excluding catfish, groundwater, and treated and untreated drinking water). Overall, the percentage of residues detected (the number of residues detected divided by the total number of analyses performed for each commodity) was 1.6 percent. More than 99 percent of the samples analyzed did not contain residues above the safety limits (tolerances) established by EPA and 96.3 percent of the samples analyzed did not contain residues for pesticides that had no tolerance established.

Of all samples collected and analyzed in 2008, 67.5 percent were fresh fruits and vegetables, many of which are often eaten in a fresh, raw state. Health experts and the U.S. Food and Drug Administration agree washing fresh fruit and vegetables before eating is a healthful habit. Consumers can reduce pesticide residues if they are present by washing fruit and vegetables with cool or lukewarm tap water.

Data Availability: PDP continually strives to improve methods for collection, testing, and reporting 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 2008, 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
ACL	Analytical Chemistry Laboratory
AL	Action Level
AMS	Agricultural Marketing Service
BQL	Below Quantifiable Level
CDFA	California Department of Food and Agriculture
CFR	Code of Federal Regulations
DPA	Diphenylamine
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
FAPAS	Food Analysis Performance Assessment Scheme
FAS	Foreign Agricultural Service
FDA	Food and Drug Administration
FGIS	Federal Grain Inspection Service
FQPA	Food Quality Protection Act
GC	Gas Chromatography
GIPSA	Grain Inspection, Packers, and Stockyards Administration
GLP	Good Laboratory Practices
HA	Health Advisory
HC1	Formetanate Hydrochloride
HCB	Hexachlorobenzene
LC	Liquid Chromatography
LOD	Limit of Detection
LOQ	Limit of Quantitation

MCL	Maximum Contaminant Level
MPO	Monitoring Programs Office
MRM	Multiresidue Method
MS	Mass Spectrometry
NAS	National Academy of Sciences
NASS	National Agricultural Statistics Service
NPDWR	National Primary Drinking Water Regulation
NSL	National Science Laboratory
OA	Oxanilic Acid
PDP	Pesticide Data Program
ppb	parts per billion
ppm	parts per million
ppt	parts per trillion
PT	Proficiency Testing
QA	Quality Assurance
QAO	Quality Assurance Officer
QAU	Quality Assurance Unit
QuEChERS	Quick, Easy, Cheap, Effective, Rugged and Safe
QC	Quality Control
RDE	Remote Data Entry
SIF	Sample Information Form
SOP	Standard Operating Procedure
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 2008

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

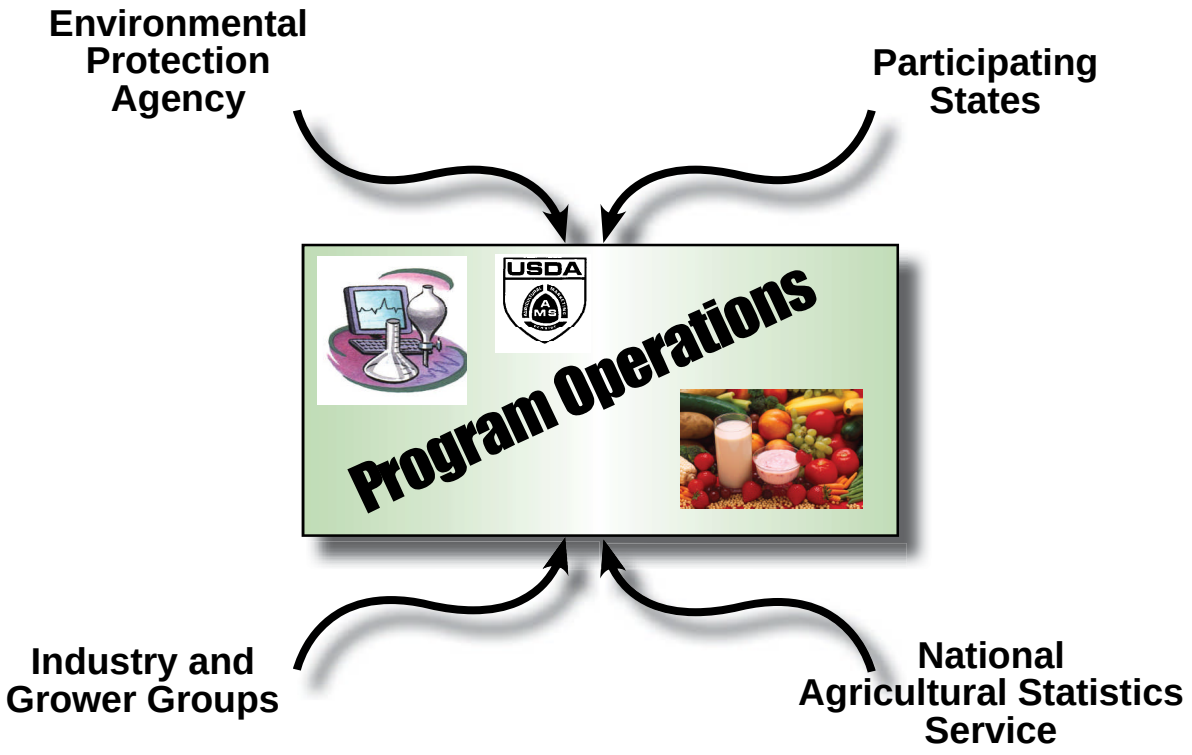
The Pesticide Data Program (PDP), which was initiated in 1991 to collect data on pesticide residues in food, now has an important role in the implementation of the 1996 Food Quality Protection Act (FQPA). The law directs the Secretary of Agriculture to collect pesticide residue data on commodities most 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.

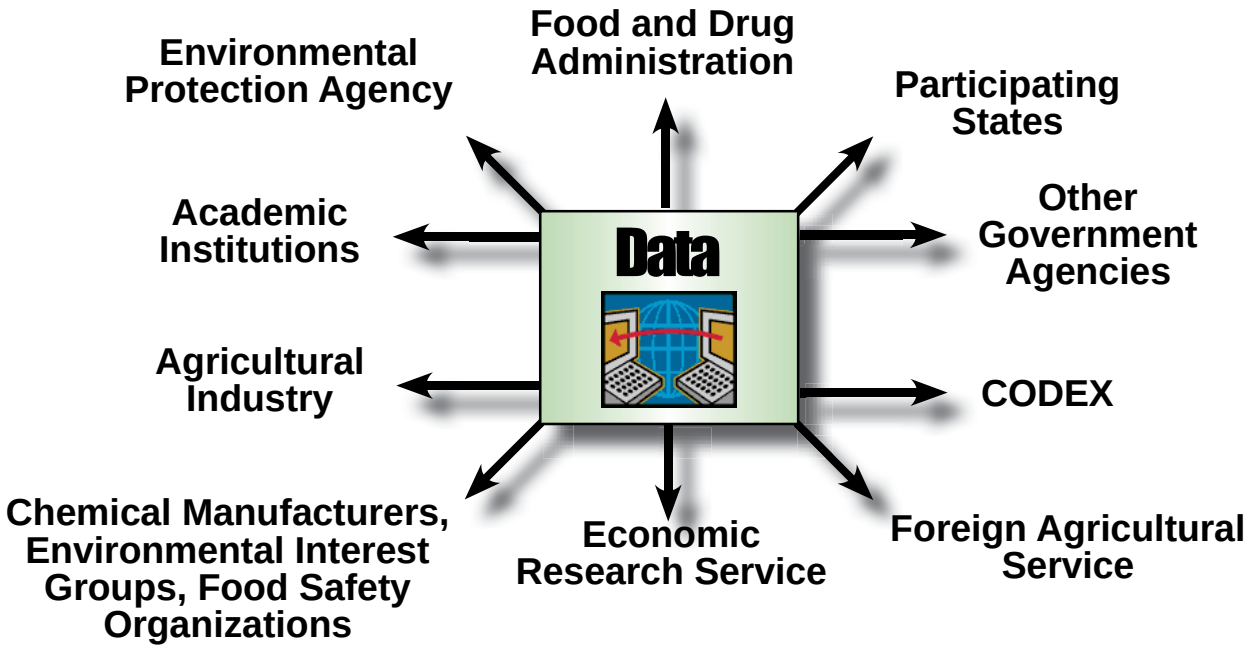
Figure 1(a) illustrates PDP program policy development and planning operations. Primary contributors to these activities include the participating States, EPA, U.S. Department of Agriculture's (USDA's) National Agricultural Statistics Service (NASS), and additional stakeholders including industry and 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. Other Federal, State, and foreign government agencies and industry have used PDP data to promote the export of U.S. commodities to international markets. Additionally, the Codex Alimentarius Committee on Pesticides Residues recognizes PDP methodologies as official and validated methods for the determination of pesticide residues in foods.

In 2008, sampling services were provided by 10 States (California, Colorado, Florida, Maryland, Michigan, New York, Ohio, Texas, Washington, and Wisconsin) and the USDA Federal Grain Inspection Service (FGIS). Sampling services also were provided by participating drinking water facility personnel at 13 individual sites in 11 States [Arizona, Florida, Georgia, Indiana, Maryland (2 sites), Minnesota, Montana, North Dakota, Ohio, Texas, and Virginia (2 sites)]. In addition, a voluntary groundwater survey was continued in 2008 with homeowners at 135 sites in agricultural areas, mostly along the Atlantic Coastal Plains and Florida, collecting potable well samples for analysis. 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); the GIPSA Laboratory; and, the U.S. EPA Analytical Chemistry Laboratory (ACL). 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. They also represent major U.S. producers of fruit and vegetables. AMS works closely with EPA to select commodities and pesticides for testing and in the selection of drinking water sites. The selected commodities represent 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 2009.



(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.*

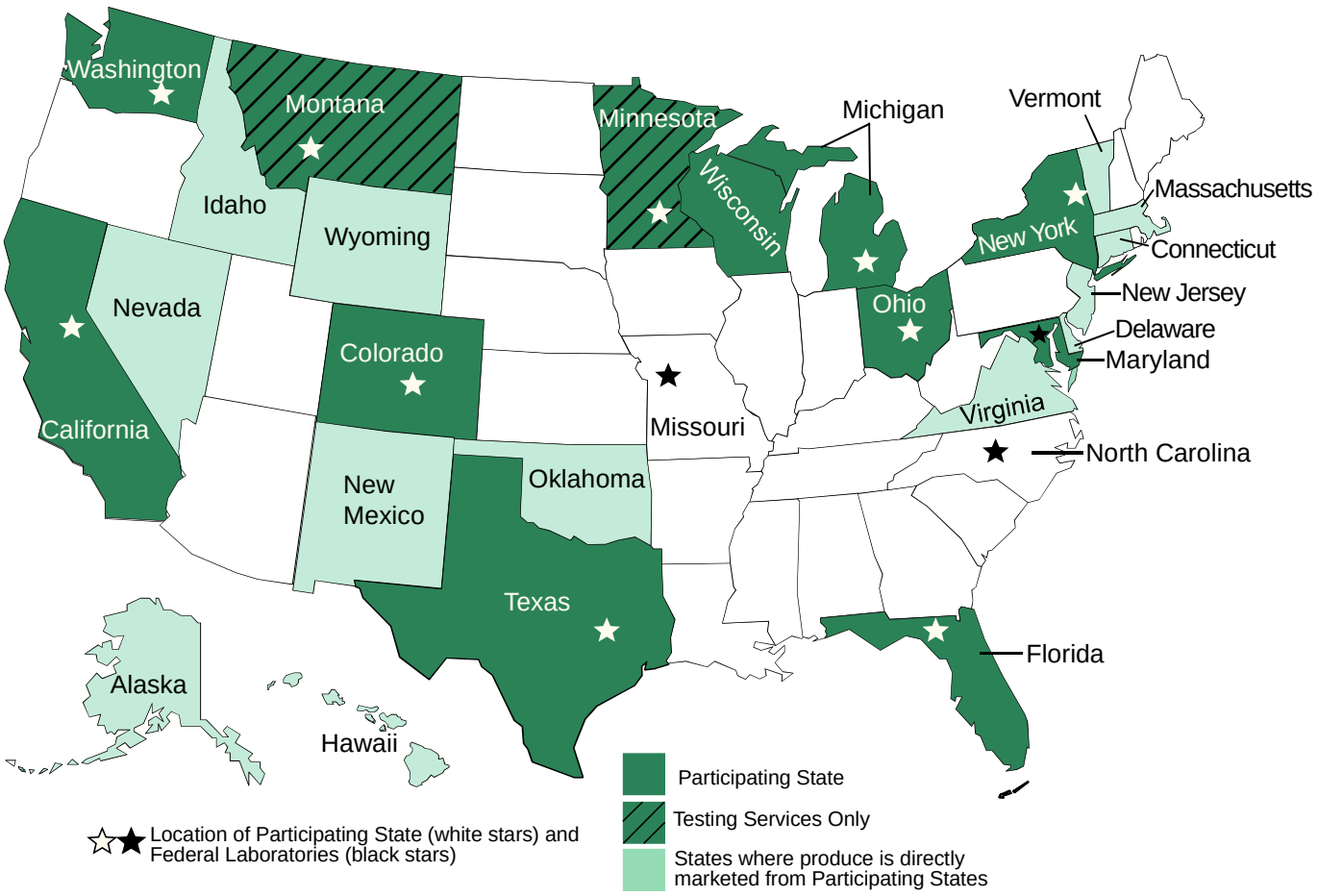


Figure 2. Program Participants. *During 2008, AMS established cooperative agreements with 12 States to sample and/or test PDP commodities. State laboratories are responsible for analyzing fresh and processed fruit and vegetable samples and drinking water samples. The Federal laboratory in Gastonia, North Carolina, analyzes meat, poultry, honey, and dairy products; the Federal laboratory in Kansas City, Missouri, analyzes whole and processed grain products; and the Federal laboratory in Fort Meade, Maryland, performs specialty analyses for selected crops. States that do not participate in PDP's sampling program but are in the direct distribution networks of the participating States also are shown.*

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 2008, approximately 600 sites granted access and provided information, including site volume data, to sample collectors. 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 Federal Grain Inspection Service (FGIS) inspectors. Treated and untreated drinking water samples are collected on-site by trained personnel at selected water treatment facilities across the country. Groundwater samples are collected from private potable wells by homeowners and State health department technicians. Sites are selected based on geographic locale and proximity to agricultural areas.

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 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), almonds (Appendix C), honey (Appendix D), catfish (Appendix E), corn grain (Appendix F), rice (Appendix G), potable groundwater (Appendix H), and municipal drinking water (Appendix I).

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 that ensure samples are randomly selected from the national food distribution system and reflect what is typically available to the consumer.

In 2008, fruit, vegetables, almonds, honey, catfish, and rice were 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 possible contamination by the consumer is eliminated and allows capture of sample information from product boxes. In 2008, 12.9 percent of fruit, vegetable, almond, honey, catfish, and rice samples were collected at proxy sites. The commodities most often collected at these facilities were apple juice, grape juice, honey, and catfish.

Corn grain samples were collected from trucks, hopper cars, and barges by trained USDA FGIS inspectors. Treated and untreated drinking water samples were collected on-site by trained personnel at selected water treatment facilities across the country. Potable groundwater samples were collected from private domestic wells by the well owners. Participation in this program is voluntary, with site selections based on agricultural chemical usage in the watershed and geographic location.

At all sampling locations, information is usually available about the identity and origin of the sample. Sample information is captured at the time of 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 PDP sampling is representative of the U.S. food supply. PDP sampling operations are adjusted according to product availability. The number of fruit, vegetable, almond, honey, catfish, and rice samples collected in each participating State is determined by State population. The number and location of collected corn grain 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, rather PDP collects samples in areas where it is known that targeted pesticides are heavily used. The number and location of groundwater samples are determined based on geographic region, location in an agricultural area, and the willingness of the well owners to participate in the program. The quarterly collection schedule for all 2008 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 as a technical reference in conducting program sampling reviews to ensure program goals and objectives are met. SOPs for PDP sampling are available on the Internet at www.ams.usda.gov/pdp. On a quarterly basis, sample collectors are provided with commodity Fact Sheets and Quick Reference Guides that list specific collection details for individual commodities that have been added to the program.

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Almonds					Mar-08
Apple Juice					Jun-08
Asparagus					Jun-10
Beans, Canned					Sep-10
Blueberries *					Dec-08
Broccoli					Sep-08
Catfish					Mar-09
Celery					Dec-08
Corn Grain **					Sep-08
Grape Juice					Dec-08
Green Beans					Dec-08
Greens, Collard					Sep-08
Greens, Kale					Sep-08
Green Onions					Sep-09
Honey					Sep-08
Nectarines					Dec-08
Peaches					Sep-08
Potatoes					Dec-10
Rice					Sep-09
Spinach					Dec-09
Strawberries					Dec-09
Summer Squash					Sep-08
Sweet Corn					Sep-10
Sweet Potatoes					Sep-10
Tomatoes					Dec-08
Water, Finished					Ongoing
Water, Ground					Ongoing
Water, Untreated					Ongoing

* Blueberries were fresh, however, approximately 2 percent were collected as frozen when fresh were not available.

** Corn grain was collected in the 2007 Crop Year (September 2007-June 2008).

Table 1. PDP Commodity Collection Schedule for 2008. *Samples are most often 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 (May 1991 through December 2009).*

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. To preserve sample integrity, most samples are shipped the same day as collection by overnight delivery. Non-refrigerated processed commodities (almonds, bottled juices, canned beans, honey, and rice) are often shipped by ground transportation to reduce shipping costs. Corn grain samples are collected in pesticide-free polyethylene bags and shipped in canvas pouches or boxes to the laboratory where the samples are refrigerated pending analysis. Raw intake and treated drinking water samples from

water treatment plants and groundwater samples collected by well owners are collected in specially prepared bottles containing dechlorinating agents to halt 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 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 electronically mailed the same day as sample collection or, at the latest, by the next 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.

Participating State agencies compile and maintain lists of sampling sites. In 2008, approximately 600 sites granted access and provided information, including site volume data, to sample collectors. The States, in turn, 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 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 among 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, vegetable, and other specialty 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; Washington, 4; and Wisconsin, 2. The 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 collection 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 by month for blueberries, green beans, and tomatoes. Fresh and processed fruit and vegetable, almond, catfish, honey, and rice samples originated from 43 States and 22 foreign countries (refer to Appendix J). Corn grain, groundwater, and drinking water samples are excluded from Appendix J because they rely on differential sampling frames.

♦ Fresh and Processed Commodities

Of all samples collected and analyzed in 2008, 78 percent (10,382 of 13,380) were fruit and

State	AS	BB	BR	CB	CE	GB	GK	GL	GO	NE	PC	PO	SP	SS	ST	SW	TO	Total Fresh
California	84	163	126	42	167	168	68	58	42	158	141	168	169	122	167	42	168	2,053
Colorado	12	24	18	6	24	24	6	12	6	17	18	24	24	18	24	6	24	287
Florida	42	83	63	21	84	84	36	27	21	77	68	84	84	63	84	21	84	1,026
Maryland	24	48	35	5	48	47	14	22	12	43	39	48	50	36	48	12	48	579
Michigan	36	71	54	12	72	72	34	20	18	76	63	72	72	54	72	18	72	888
New York	54	108	80	22	108	107	61	20	27	118	98	108	108	81	108	27	108	1,343
Ohio	36	72	54	12	72	71	28	26	18	40	47	72	72	54	72	18	72	836
Texas	48	94	71	22	95	96	31	41	24	97	90	96	96	72	95	24	95	1,187
Washington	24	47	36	8	48	48	29	7	12	31	38	48	48	36	48	11	46	565
Wisconsin	12	16	17	2	23	24	11	7	6	15	14	24	24	18	23	5	23	264
TOTAL	372	726	554	152	741	741	318	240	186	672	616	744	747	554	741	184	740	9,028

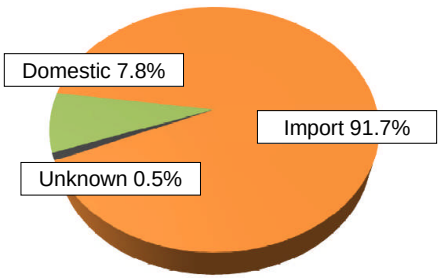
State	AJ	BZ	CS	GJ	KB	Total Processed	Total Fresh & Proccessed F&V	Nuts AL	Honey HY	Fish FC	Grain RI
California	84	5	0	167	42	298	2,351	42	126	125	42
Colorado	12	0	0	24	6	42	329	6	18	18	6
Florida	42	1	0	84	21	148	1,174	21	63	63	21
Maryland	24	0	7	47	12	90	669	12	36	35	12
Michigan	36	1	6	72	18	133	1,021	18	54	54	18
New York	54	0	5	108	27	194	1,537	27	81	81	27
Ohio	36	0	6	72	18	132	968	18	54	54	18
Texas	48	2	2	98	24	174	1,361	24	72	72	72
Washington	24	1	3	48	12	88	653	12	36	35	12
Wisconsin	12	8	4	25	6	55	319	6	18	15	6
TOTAL	372	18	33	745	186	1,354	10,382	186	558	552	184

Commodity Legend		
AJ = Apple Juice	FC = Catfish	PC = Peaches
AL = Almonds	GB = Green Beans	PO = Potatoes
AS = Asparagus	GJ = Grape Juice	RI = Rice
BB = Blueberries	GK = Greens, Kale	SP = Spinach
BR = Broccoli	GL = Greens, Collard	SS = Summer Squash
BZ = Blueberries, Frozen	GO = Green Onions	ST = Strawberries
CB = Sweet Corn, Fresh	HY = Honey	SW = Sweet Potatoes
CE = Celery	KB = Kidney Beans, Canned	TO = Tomatoes
CS = Sweet Corn, Frozen	NE = Nectarines	

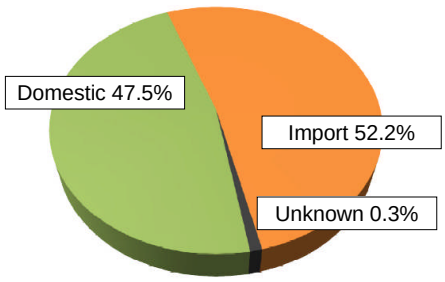
Table 2. Distribution of Samples Collected and Analyzed by Each Participating State. *This table includes those commodities collected at terminal markets and distribution centers. The distribution of corn grain, groundwater and drinking water can be found in Figures 5, 6, and 7 respectively.*

A. Fresh Fruit and Vegetable Samples

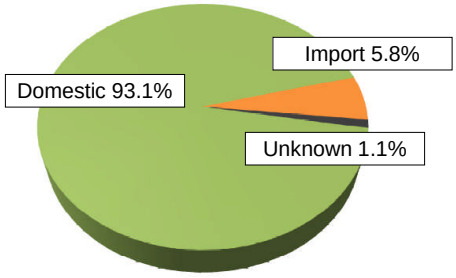
Asparagus (372 Samples)



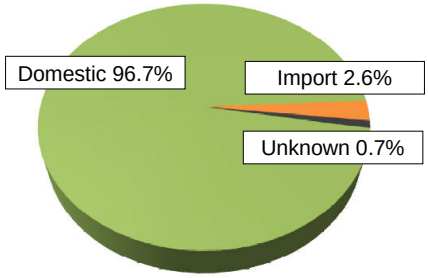
Blueberries (726 Samples)



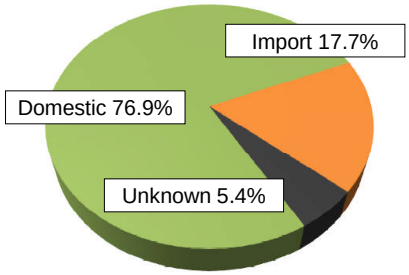
Broccoli (554 Samples)



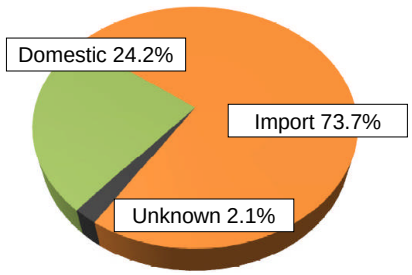
Celery (741 Samples)



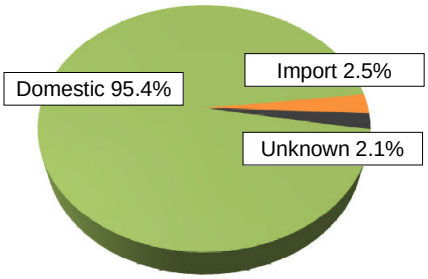
Green Beans (741 Samples)



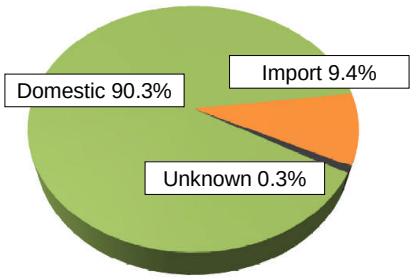
Green Onions (186 Samples)



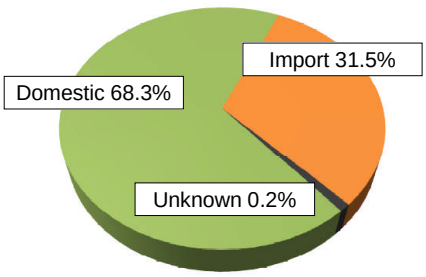
Greens, Collard (240 Samples)



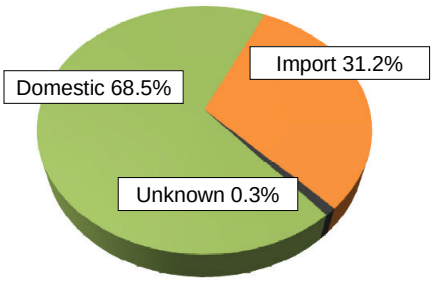
Greens, Kale (318 Samples)



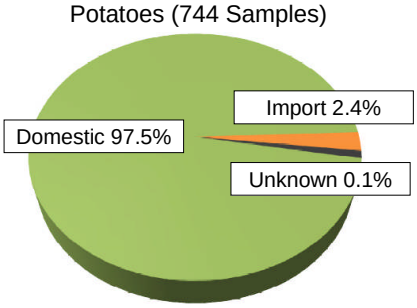
Nectarines (672 Samples)



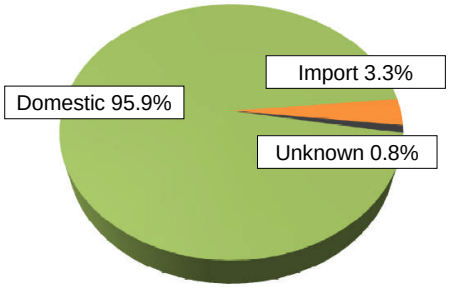
Peaches (616 Samples)

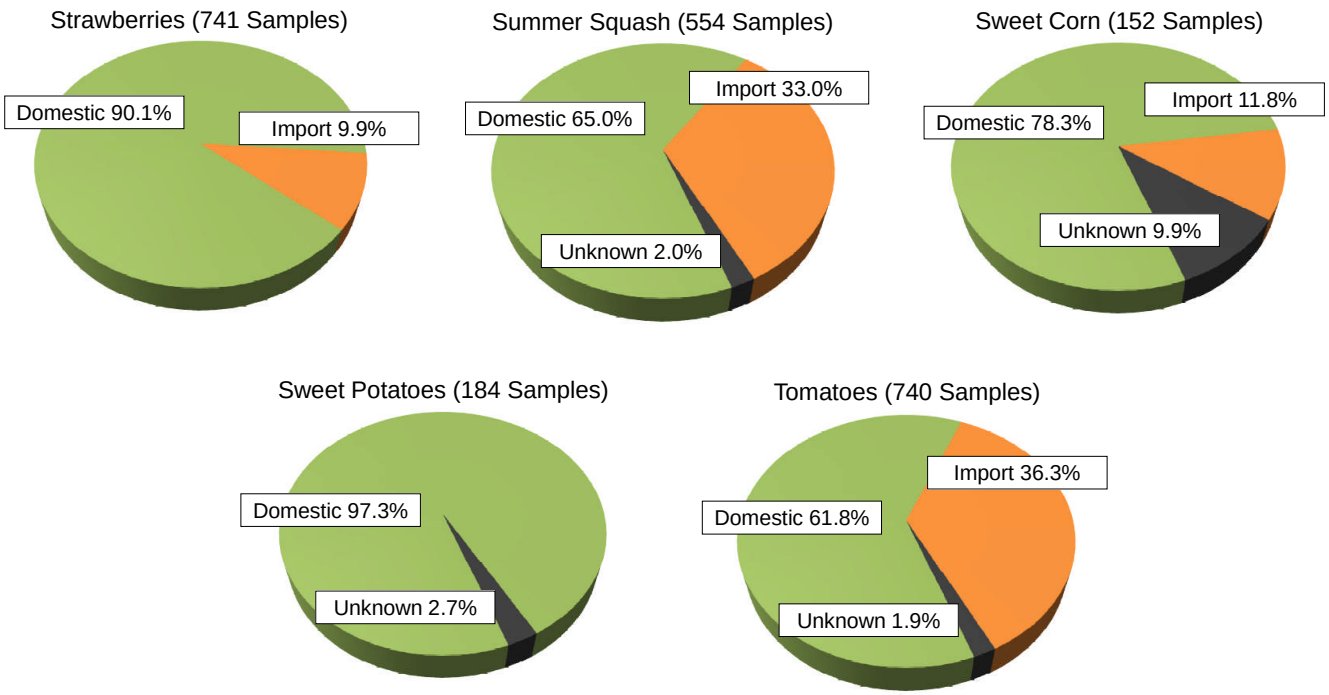


Potatoes (744 Samples)



Spinach (747 Samples)





B. Processed Fruit and Vegetable Commodities

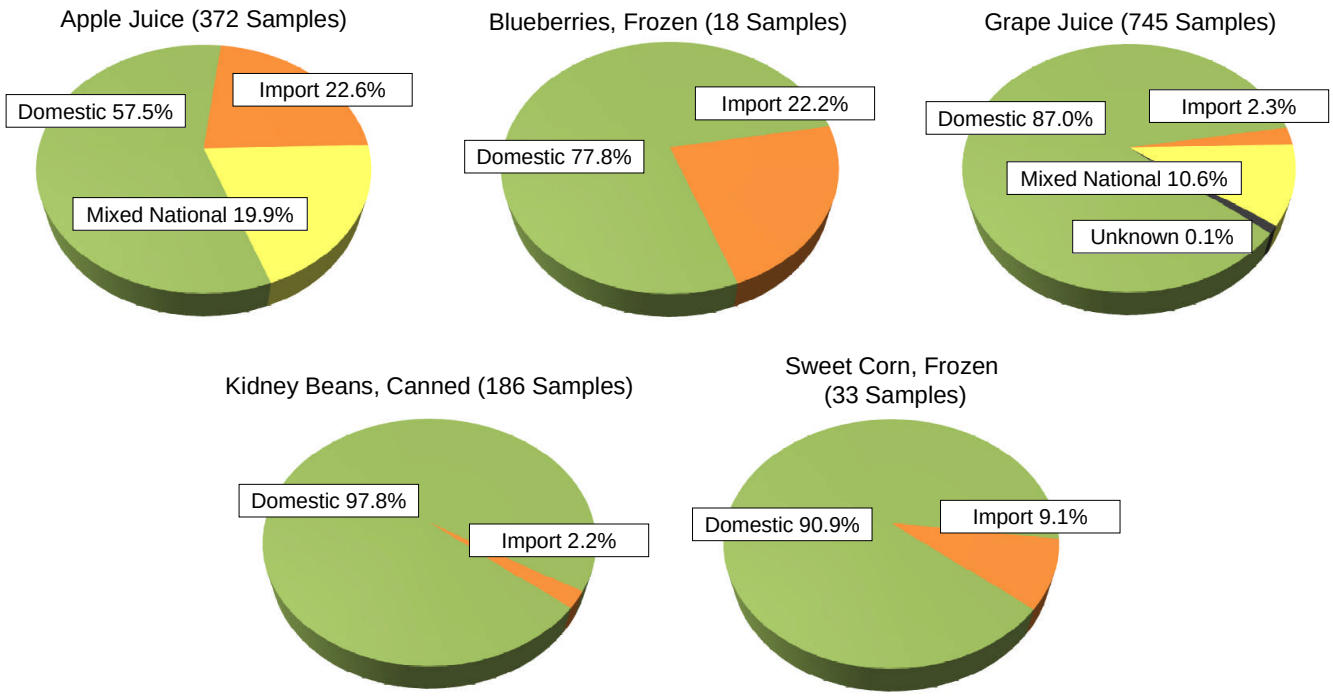


Figure 3. Commodity Origin. *This figure depicts the proportion of commodity origin (domestic vs. import vs. unknown origin) for each fresh and processed fruit and vegetable product tested in 2008.*

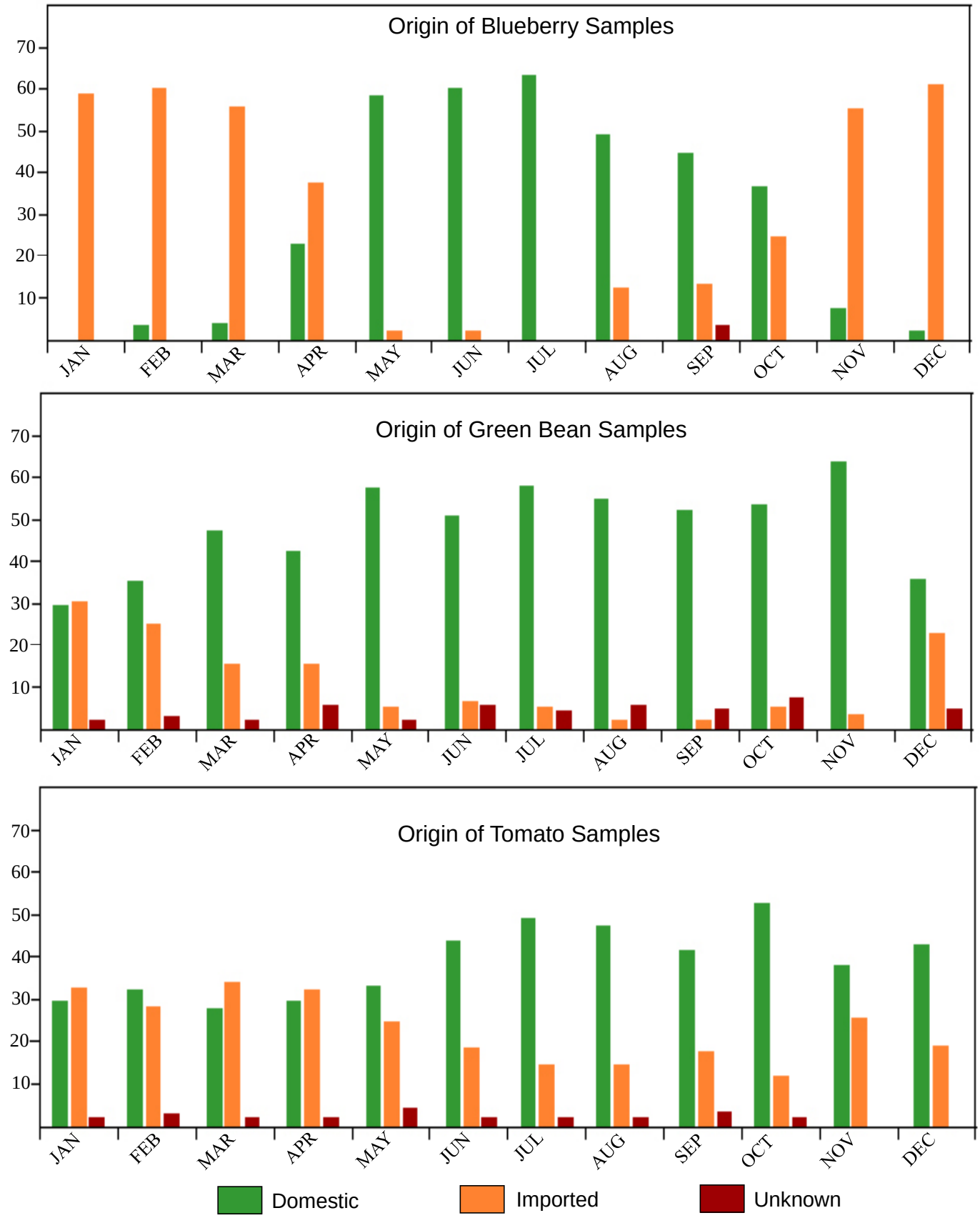


Figure 4. Origin of Selected Fresh Commodities: Blueberries, Green Beans and Tomatoes. *Differences in origin (domestic vs. import) are illustrated by month. The targeted number of samples is 62 per month for each commodity.*

vegetables, including fresh and processed products. The fresh commodities collected for PDP were asparagus, blueberries, broccoli, celery, green beans, green onions, greens (collard greens and kale), nectarines, peaches, potatoes, spinach, strawberries, summer squash, sweet corn on-the-cob, sweet potatoes, and tomatoes. The processed commodities included apple juice, frozen blueberries, canned kidney beans, grape juice, and frozen sweet corn. All fresh fruit and vegetable samples weighed either 3 or 5 pounds. Three pounds were collected for such low-weight commodities as greens and strawberries and 5 pounds were collected for larger, high-weight commodities such as nectarines and tomatoes. For commodities that can be quite large (such as summer squash), a minimum of two units were collected to maintain sample representativeness. For processed samples, apple and grape juice volumes were one quart; frozen blueberries weighed one pound; canned kidney bean samples weighed 28 ounces; and frozen sweet corn niblets weighed 3 pounds.

♦ Almonds

Between January and March 2008, 186 almond samples were collected for PDP by trained State sample collectors and analyzed for pesticide residues. One-pound samples were collected from routine PDP sampling sites that included major chain-store distribution centers and terminal markets. When they were not available at these sites, almonds were collected from proxy sites (retail stores). Approximately 47 percent of the almond samples were obtained from proxy sites. Only whole, raw, shelled, natural almonds were collected; blanched, roasted, salted, smoked, flavored, ground, or slivered almonds were not sampled. Analysis was performed by the AMS NSL located in Gastonia, NC. Distribution of residues in almonds may be found in Appendix C.

♦ Honey

PDP State samplers collected 558 honey samples between January and September 2008. Twelve- to 32-ounce containers of 100 percent pure Grade A honey were collected from routine PDP sampling sites that included chain-store distribution centers and terminal markets. Approximately 44 percent of the samples were collected at proxy (retail) sites. In addition to the commonly available clover honey, other blossom-flavored honey (such as orange blossom and wildflower), creamed honey, and honey with honeycombs in the jar were randomly collected when available. Imitation honey (made from rice or corn syrup), solid comb honey, honey with added flavors, and B or C grade honey were not included in the collection scheme. Distribution of residues in honey may be found in Appendix D.

♦ Catfish

In April 2008, EPA requested collection of catfish data to examine levels of pesticides present in catfish, whether from environmental contaminants or from pesticides used in aquaculture. Current, comprehensive data on pesticide residues on fish available to the U.S. consumer is largely unavailable. Sampling was designed to capture domestic and imported products, including farm-raised catfish. Approximately 75 of all domestic farm-raised fish is catfish. The primary domestic production States in 2008 are, in order of production, Mississippi, Alabama, Arkansas, and Texas. The primary import countries are China and Vietnam. PDP sampled catfish available at designated sampling locations regardless of country of origin, in order to capture results for catfish consumed by the American public.

PDP collected and analyzed 552 catfish samples in 2008. Each sample consisted of 1 pound of fresh or frozen raw catfish. Proxy/retail sites provided 66.7 percent of catfish samples, while distribution centers provided 30.1 percent of samples, terminal markets 1.9 percent, and wholesale or specialty fish markets 1.3 percent. Whole catfish samples were not collected; rather, only fillets, nuggets, strips, or steaks were obtained for testing. Both bones-in and no bones were acceptable sample types. To ensure catfish samples arrived at the laboratory in acceptable condition, samples were first frozen overnight and then shipped the following day by overnight air with ample frozen cold packs and insulating materials surrounding all sample units. Analysis was performed by the NSL, Gastonia, NC.

Although naming conventions vary across States and regions of the United States and among

countries, PDP sample collectors relied solely on the label for identification of catfish (fillets, nuggets, strips, steaks) regardless of the family, genus, or species names that may or may not have been listed on the product. Farm-raised or wild, and domestic or imported catfish were collected on a random, as-available basis. The majority of samples were farm-raised and of domestic origin. Approximately 85 percent of the samples were farm-raised, less than 1 percent was wild-caught, and the remainder of the samples had no available source information. Seventy-nine percent of the samples originated in the United States, 19 percent were imported, and 2 percent were of unknown origin. These collection percentages are consistent with the U.S. Department of Commerce and NASS data on domestic production figures for 2008. Distribution of residues in catfish may be found in Appendix E.

♦ Corn Grain

Trained USDA FGIS inspectors collected 650 corn samples for PDP for the 2007 crop year (harvested between September 2007 and April 2008 and collected between September 2007 and June 2008). Sample collection rates, on a statewide basis, were calculated on the basis of crop production totals averaged over a 3-year period. Samples were drawn from trucks

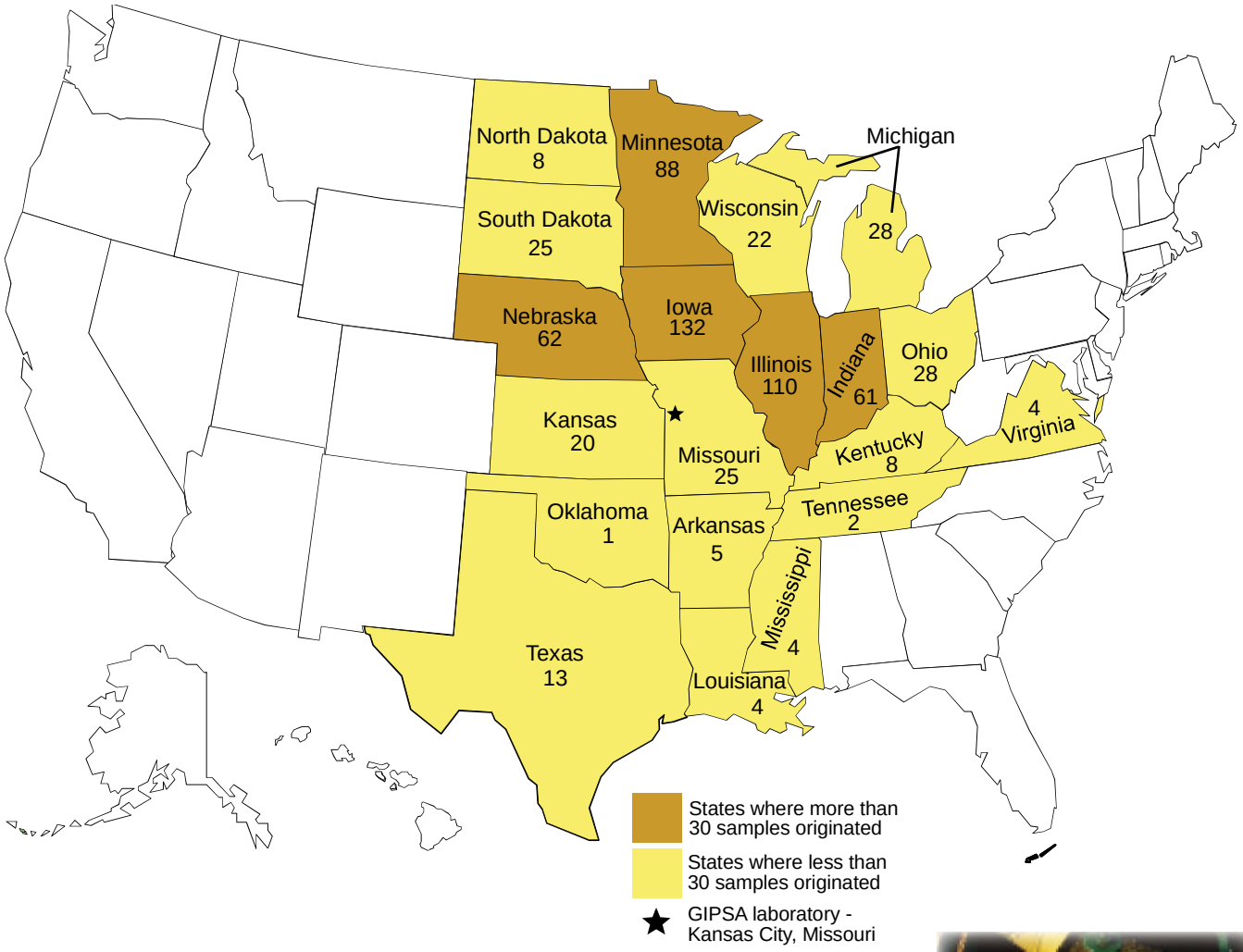


Figure 5. Number of Samples Collected and Grower States for Corn Grain. *A total of 650 corn grain samples were collected between September 2007 and June 2008. The samples originated from 20 States and were collected in proportion to their production volumes. Residue testing for all samples was performed by GIPSA, located in Kansas City, MO.*

(24% of samples), hopper cars (70% of samples), and barges (6% of samples). Corn grain slated for export was excluded from the sampling scheme. PDP chain-of-custody procedures are similar to those used for fruit and vegetable samples. Sample information for corn 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 USDA GIPSA Technical Services Division Laboratory located in Kansas City, Missouri. Corn samples were collected from 130 cities in 20 States. There were no imported corn samples; all were of domestic origin. The origin and number of samples collected from each State are displayed in Figure 5. Distribution of residues in corn grain may be found in Appendix F.

♦ Rice

In 2008, PDP collected 184 samples of milled rice. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets. Three-pound rice samples included short, medium, and long grain white rice; brown rice; basmati rice; jasmine rice; and texmati rice. Further processed rice types, such as Minute Rice® and Uncle Ben's Rice® were not included in the sampling scheme. Analysis was performed by the USDA Grain, Inspection, Packers and Stockyards Administration (GIPSA) Laboratory in Kansas City, MO. Results for rice are shown in Appendix G.

♦ Drinking Water

Potable Groundwater from Domestic Wells: In 2008, 249 samples from 135 groundwater wells used for potable water supplies located in agricultural regions in 12 States were collected. Each well was sampled twice, in both spring and fall, by the well owner, or in Florida, by State health department technicians. Sampling was performed at the kitchen faucet following morning showers to ensure that all water from the pressure tank and any storage tanks was used and that the water was fresh from the well and not stagnant. It is assumed that most households do not spray household pesticides around the kitchen faucet; therefore, the chance of contamination is minimal. All groundwater samples were sent to the Minnesota Department of Agriculture laboratory for analysis.

Based on a request from EPA, PDP targeted sites for this study in the Atlantic Coastal Plain region and Florida. An additional site in California was also sampled. Well depths ranged from 35 to 600 feet below land surface. Figure 6 shows the distribution of groundwater collection sites for the 2008 PDP testing program.

Municipal Drinking Water: In the municipal water sampling project, 619 drinking water samples were collected for pesticide residue analysis from 13 sites in 11 States. The sites are community water systems that draw water from surface water sources. Samples were collected bimonthly by trained water treatment facility personnel and sent to State laboratories in 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 Arizona (1), Florida (1), Georgia (1), Indiana (1), Maryland (2), Minnesota (1), Montana (1), North Dakota (1), Ohio (1), Texas (1), and Virginia (2). 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.

III. Laboratory Operations

♦ Overview

Thirteen laboratories (10 State and 3 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 continually 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 Commodities

PDP participating laboratories analyzing fruit and vegetables monitored 314 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) asparagus spears are washed, with woody stems removed; (2) blueberries, potatoes, and sweet potatoes are washed; (3) broccoli is visually examined, any

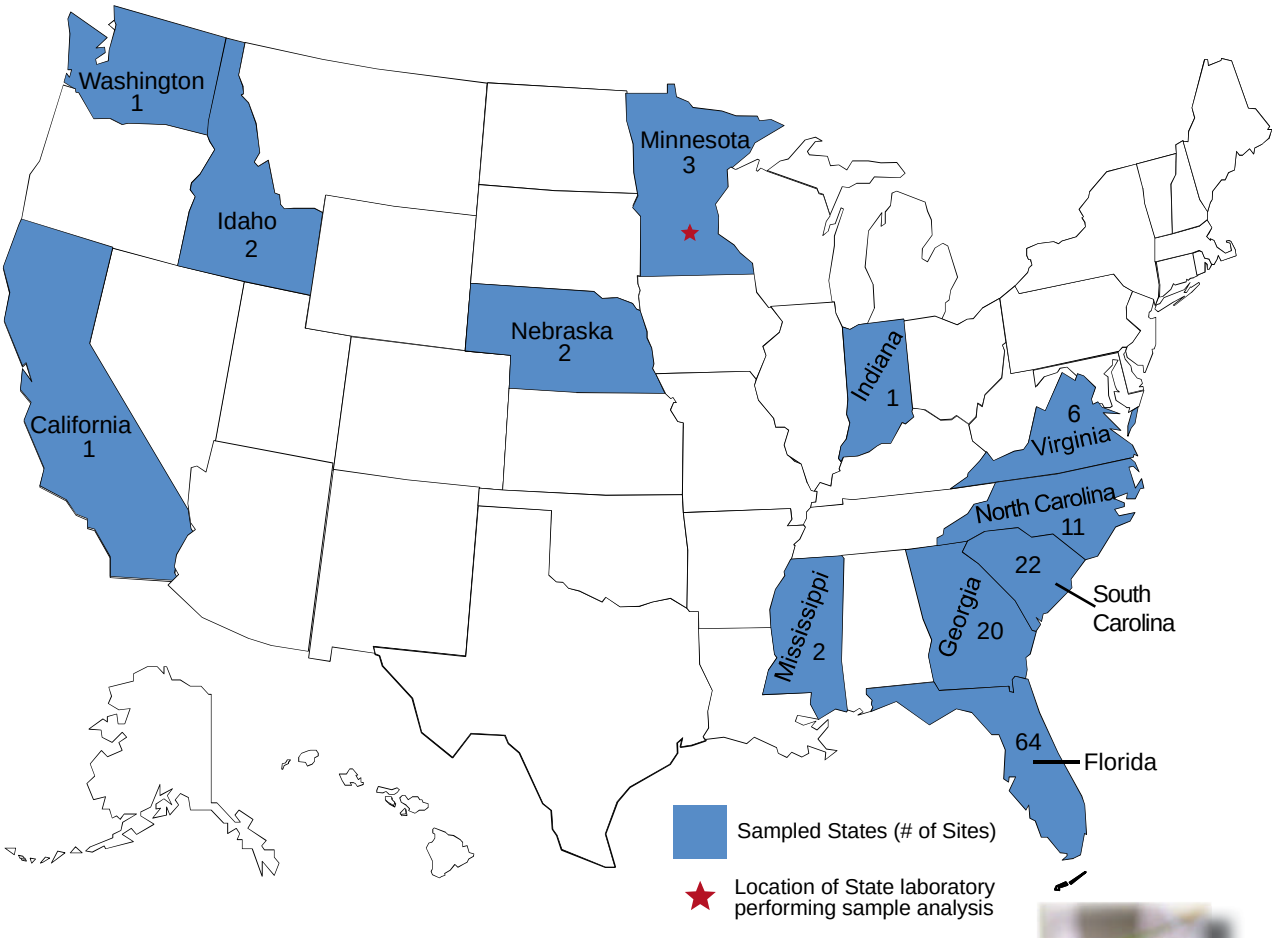


Figure 6. Location of Groundwater Collection Sites in 2008. *A total of 249 groundwater samples were collected from 135 private wells in 12 States.*

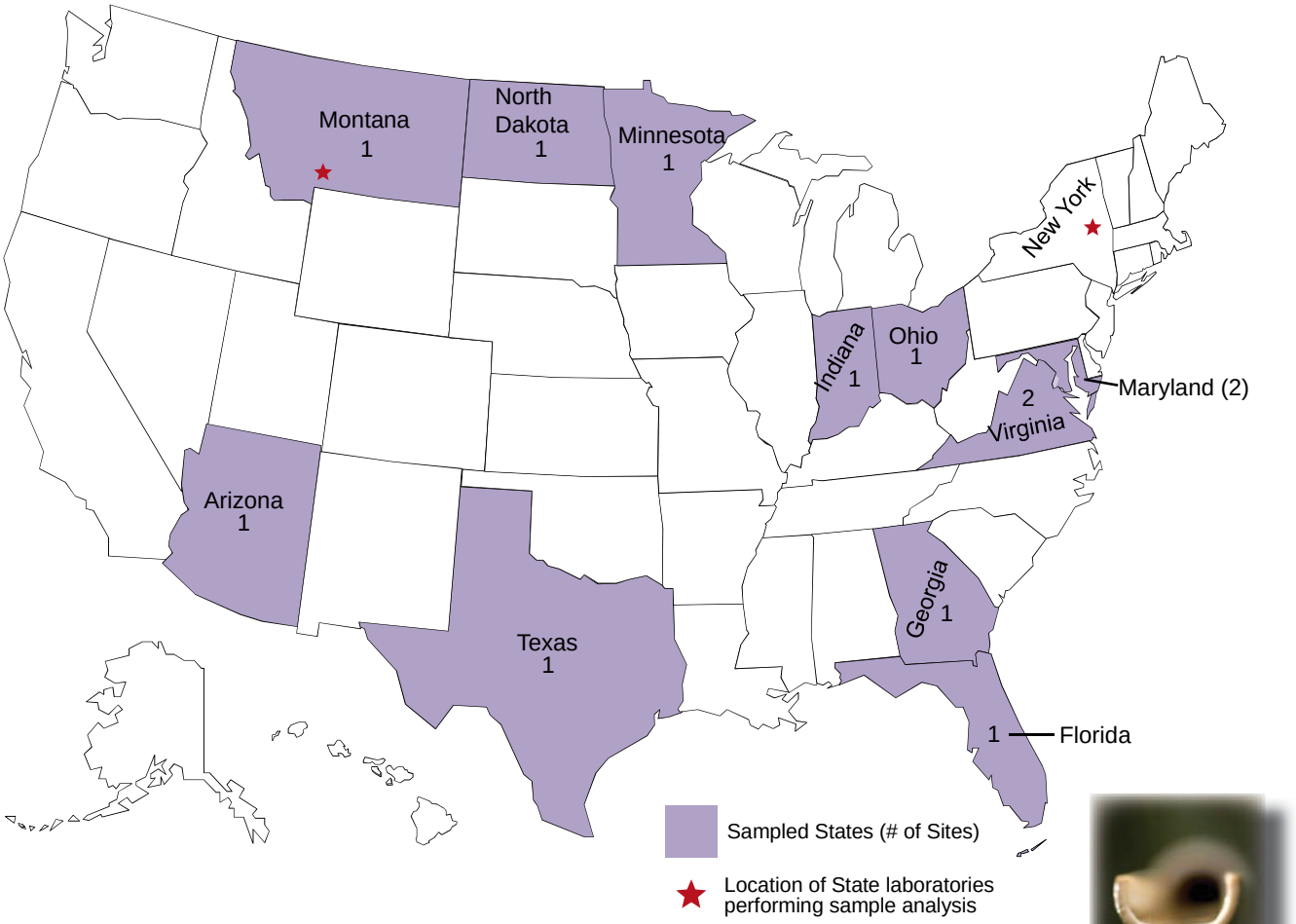


Figure 7. Location of Drinking Water Collection Sites at Community Water Systems in 2008. *A total of 13 water treatment facilities in the U.S. were sampled in paired units (coordinated treated and untreated samples). Sites represent areas of varied geographical settings but are located in watersheds where pesticides were known to have been heavily applied.*

damaged portion or wilted florets removed, any inedible portion of stem removed, and washed; (4) celery stalks are separated from inedible portions and washed; (5) green beans and summer squash are washed and end pieces are removed; (6) green onions are washed with roots/inedible material removed from the bulb end and tops trimmed if damaged or wilted; (7) greens and spinach, except bagged spinach, are visually examined, damaged/ wilted and/or wrapper leaves discarded, and the fresh leaves are washed; (8) bagged spinach is not washed prior to homogenization; (9) nectarines and peaches are washed, the stems and leaves removed, and pitted; (10) strawberries are washed with stems and leaves removed; (11) fresh sweet corn on the cob is husked, washed, and kernels are removed from the cob; and (12) tomatoes are washed with the stem area minimally removed.

Processed samples are prepared as follows: (1) fresh and reconstituted apple and grape juice samples are mixed until homogeneous; and (2) frozen blueberries, canned beans, and frozen sweet corn niblets are homogenized with their entire contents, including any liquid present. Samples of almonds, corn grain, and rice were homogenized as received by the laboratory. Samples of honey were considered homogeneous and required no further processing prior to analysis. Frozen catfish samples were homogenized with dry ice. Laboratories are permitted to refrigerate, up to 72 hours, incoming fresh fruit and vegetable samples of the same commodity 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 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 and Texas laboratories used modifications of the MRM developed by the California Department of Food and Agriculture (CDFA). The Michigan laboratory used a modified version of the "Quick, Easy, Cheap, Effective, Rugged and Safe" (QuEChERS) method. The Washington laboratory used the CDFA method for most of the year before validating the QuEChERS method, which uses less acetonitrile, a move prompted by the worldwide acetonitrile shortage. The Florida laboratory used an acetonitrile extraction followed by an aminopropyl SPE cleanup procedure for most of the year, before switching to and validating the QuEChERS method. 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 I] and Luke II [FDA Laboratory Information Bulletin 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.

♦ Almonds

The AMS NSL in Gastonia, NC, tested almond samples for 72 parent pesticides, metabolites, degradates, and/or isomers. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if spoiled or damaged. The samples were stored at room temperature until they were homogenized. The almond samples were homogenized by grinding 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 almond sample followed by organic solvent extraction and sample cleanup using ultra-low refrigeration (-70°C), centrifugation, and dispersive SPE. For each almond 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. Samples were analyzed using GC-MS and LC-MS/MS.

♦ Honey

The AMS NSL in Gastonia, NC, tested honey samples for 164 parent pesticides, metabolites, degradates, and/or isomers. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if spoiled or leaking. If not extracted immediately after arrival, samples were stored at room temperature until extracted. The honey samples were homogeneous and required no further processing. Two 10-gram aliquots of each honey sample were weighed, followed by the addition of 10 mL of water, and extracted using a slight modification of the

QuEChERS method. One aliquot was extracted with acetonitrile for the LC analysis and the second with ethyl acetate for the GC analysis. For each honey sample not used for the initial testing, a portion was retained frozen in the event that replication of analysis or verification testing was required. Samples were analyzed using GC-MS and LC-MS/MS.

♦ **Catfish**

The AMS NSL tested catfish samples for 220 parent pesticides, metabolites, degradates, and/or isomers. 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 catfish samples were homogenized by grinding 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 sample followed by organic solvent extraction and sample cleanup using ultra-low refrigeration (-70°C), centrifugation, and dispersive SPE. 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. Samples were analyzed using GC-MS and LC-MS/MS.

♦ **Corn Grain**

The USDA GIPSA laboratory in Kansas City, MO, analyzed corn grain samples for 106 parent pesticides, metabolites, degradates, and/or isomers. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if spoiled or otherwise inedible. Corn grain samples were refrigerated at 4°C or lower until time of grinding, after which the samples are stored at -80°C until extraction. 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 corn grain samples was accomplished using an acetonitrile-based solvent extraction and SPE cleanup coupled with GC-MS and LC-MS/MS detection.

♦ **Rice**

The USDA GIPSA laboratory in Kansas City, MO, analyzed rice samples for 81 parent pesticides, metabolites, degradates, and/or isomers. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if spoiled, or otherwise inedible. Rice samples were refrigerated at 4°C or lower until time of grinding, after which the samples are stored at -80°C until extraction. 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 rice samples was accomplished using an acetonitrile-based solvent extraction and SPE cleanup coupled with GC-MS and LC-MS/MS detection.

♦ **Potable Groundwater from Domestic Wells**

The Minnesota laboratory analyzed groundwater for 94 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 24 hours of collection, no leakage). Samples were refrigerated until time of analysis. One liter of the sample was extracted for compounds amenable to GC-MS analysis and one liter was extracted for chloroacetanilide compounds to be analyzed via LC-MS/MS. A third bottle was held in reserve in case of breakage or laboratory accident.

♦ **Municipal Drinking Water**

The Montana and New York laboratories analyzed drinking water for 217 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.

♦ Formetanate Hydrochloride

In 2008, PDP conducted a special survey of formetanate hydrochloride (HCl) on nectarines and peaches. Homogenates of 667 nectarine and 595 peach samples were shipped by the California, Ohio, and Washington laboratories to the U.S. EPA ACL in Fort Meade, MD, for analysis. The ACL used a modification of the QuEChERS method coupled with LC/MS-MS analysis to determine formetanate hydrochloride. Additionally, the New York laboratory analyzed 186 samples of green onions for formetanate hydrochloride using a method based on the Agriculture and Agri-Food Canada SPE method with some modifications based on the Luke procedure and LC/MS-MS detection.

♦ 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 initially based on EPA Good Laboratory Practices (GLPs). The PDP SOPs provide uniform administrative and sampling procedures, as well as laboratory operations and data analyses guidelines. The program SOPs are revised annually to accommodate changes in the program and are aligned with International Organization for Standardization (ISO) requirements. PDP State food laboratories are accredited to ISO 17025.

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 Quality Assurance Unit (QAU) at each participating facility. The QAU operates independently from the laboratory staff and is responsible for reviewing all data generated for PDP and 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 methods used (extraction and instrumental). 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, and clean-up. 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, almonds, honey, catfish, corn grain, and rice, 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 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, imidazolinones, macrocyclic lactones, neonicotinyls, phenoxy acid herbicides, pyrethroids, strobilurins, sulfonyl urea herbicides, triazines, uracils), with physical and chemical characteristics representative of their corresponding pesticide class. Marker pesticides may be 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 at least quarterly for each analyte/crop combination it reports. Some laboratories choose to rotate spikes of all compounds on a set-to-set basis so that the amount of spike recovery data obtained actually exceeds the minimal requirements previously stated. During 2008, PDP laboratories quantitated a total of 73,047 matrix spikes, with an overall mean recovery of 93 percent and an overall percent coefficient of variation (% C.V.) of 29 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 2008, PDP laboratories quantitated a total of 51,735 process controls on 13,381 samples, with an overall mean recovery of 95 percent and an overall C.V. of 20 percent. Of these process controls, 470 (0.9%) were reruns due to initial failure to meet PDP recovery criteria. The 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, almonds, honey, catfish, corn grain, and rice, multiresidue test samples containing pesticides of known quantities are periodically issued and analyzed under the same conditions as routine samples. Fortification levels are generally 1 to 10 times the LOQ. For each multiresidue round, one compound per set is typically repeated within the round to provide an indicator of repeatability. The resulting data are used to determine performance equivalency among the testing laboratories and to evaluate individual laboratory performance. During 2008, PDP laboratories received:

- six multiresidue fruit and vegetable PT rounds (broccoli, celery, green beans, spinach, strawberries, summer squash), each consisting of three test samples. These 18 samples were fortified with 11 to 12 compounds per round. Reported results for fruit and vegetable samples yielded an overall mean recovery of 88 percent and an overall C.V. of 33 percent.

- one catfish set consisting of 2 samples that were fortified with a total of 16 compounds, and

- one honey set consisting of 3 samples that were fortified with a total of 12 compounds.

Laboratories testing commodities for specialty analytes, including formetanate and phenoxy acid herbicides, were each issued a PT round during 2008:

- one nectarine set for formetanate analysis consisting of three samples, each spiked only with its specified target analyte, formetanate, and

- one potato set for phenoxy acid herbicide analysis consisting of two samples fortified with a total of eight phenoxy acid herbicides with two compounds repeated within the round.

Additionally, during 2008, PDP laboratories participated in the following PT testing programs:

- the international AOAC® PT program, with 1 round for summer squash, fortified with 10 pesticides, and 1 round for tomatoes, fortified with 9 compounds, and

- Food Analysis Performance Assessment scheme (FAPAS) PT program, with one round for apples, spiked with five compounds.

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 2008, with nine compounds fortified in each round. Custom-designed test solutions, based on testing profiles and detection limits, 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 the specified solution, which was diluted according to program protocols. This solution was then used to fortify replicate samples collected from PDP sampling sites whose samples historically contained multiple pesticides but not those included in the spike solution. The spiked samples then were presented to the staff members of each respective laboratory for analysis.

On-site Reviews: MPO staff performs 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, VA, 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 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.

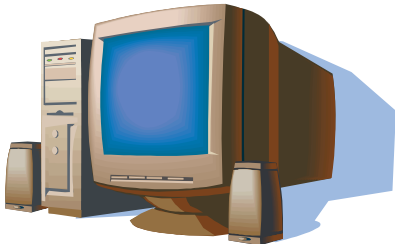
SAMPLE COLLECTION

- Collection in 10 States
- Samples taken close to consumer
- Standardized Sample Information Forms
- Data entry on heldheld/laptop computers

LABORATORY ANALYSIS

- 10 State labs + 2 USDA labs + 1 EPA lab
- 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)

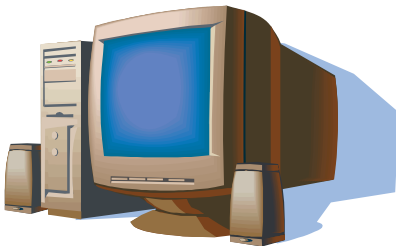


- Web-based data entry software
- Import data from other systems
- Access controlled by user login
- Extensive data cross-checks

INTERNET

INTERNET

DATA REVIEW AT HQ

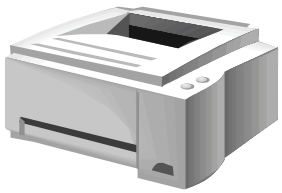


- Chemists review data on-screen
- Upload data to central database

YEAR-END REVIEW

- Data reconciliation

DATA REPORTING



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

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

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 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 maintained using Microsoft® Access and SQL Server database tools. Access to the central PDP database is limited to MPO personnel only and is controlled through password protection and user access rights.

♦ Data Reporting

The MPO 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 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 using common database management software packages.

V. Sample Results and Discussion

♦ Sample Results

In 2008, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, almonds, honey, catfi sh, corn grain, rice, groundwater, and treated and untreated drinking water. Of the 13,380 samples collected and analyzed, 10,382 were fresh and processed fruit and vegetable commodities, 186 were almond samples, 558 were honey samples, 552 were catfi sh samples, 650 were corn grain samples, 184 were rice samples, 249 were groundwater samples, and 619 were drinking water samples.

For fresh and processed fruit and vegetables, almonds, honey, catfish, and rice, approximately 76.4 percent of all samples were produced in the United States, 19.8 percent were imports, 2.7 percent of mixed origin, and 1.1 percent of unknown origin. Appendix J shows the distribution of sample origin by State or country. Of the domestic samples, approximately 44 percent (4,030 of 9,061) were grown, packed, and/or distributed in or from California. Approximately 20 percent (74 of 372) of the apple juice samples and 29 percent of the honey samples (161 of 558) were of mixed national origin. Corn grain, groundwater, and drinking water are excluded from Appendix J because they are targeted samples that rely on differential sampling frames and are not collected from routine PDP sample collection locations (i.e., terminal markets and large chain store distribution centers throughout the country). Corn grain samples are collected from grain trucks, hopper cars, and barges transporting domestically produced grain. Groundwater samples are collected from private domestic wells and treated and untreated drinking water samples are collected by water treatment facilities. Appendix K includes a comparison of residues for selected commodities with a significant import component.

Table 3 gives an overview of the number of samples analyzed and a summary of results for fresh and processed fruit and vegetables, corn grain, rice, honey, and almonds. The percent of total residue detections and percent of non-detectable residues are obtained by comparing the total number of residues detected and the total number of non-detects to the total number of analyses performed per commodity, respectively. The average number of analyses performed per sample is also shown. The percentage of total residue detections for fresh fruit and vegetables ranged from 0 to 3.3 percent, with a mean of 1.9 percent. The percentage of total residue detections for processed fruit and vegetables ranged from 0 to 2.2 percent, with a mean of 0.6 percent. The percentage of total residue detections for almonds was 1.4 percent, honey 0.4 percent,

	Number of Samples Analyzed	Average Number of Analyses Performed on Each Sample	Number of Analyses Performed	Number of Residue Detections	Percent of Residue Detections	Number of Non-Detections	Number of Different Pesticides Detected
Fresh Fruit and Vegetables							
Asparagus	372	109	40,368	39	0.1	40,329	9
Blueberries	726	166	120,797	1,736	1.4	119,061	46
Broccoli	554	162	89,821	797	0.9	89,024	32
Celery	741	160	118,480	3,821	3.2	114,659	54
Green Beans	741	118	87,780	1,392	1.6	86,388	42
Green Onions	186	179	33,212	272	0.8	32,940	23
Greens, Collard	240	86	20,709	540	2.6	20,169	41
Greens, Kale	318	87	27,635	622	2.3	27,013	51
Nectarines	672	81	54,427	1,603	2.9	52,824	30
Peaches	616	130	80,184	2,155	2.7	78,029	52
Potatoes	744	150	111,540	1,410	1.3	110,130	28
Spinach	747	140	104,523	1,850	1.8	102,673	40
Strawberries	741	153	113,071	3,703	3.3	109,368	46
Summer Squash	554	89	49,430	1,050	2.1	48,380	36
Sweet Corn, Fresh	152	135	20,513	1	< 0.1	20,512	1
Sweet Potatoes	184	147	27,134	92	0.3	27,042	10
Tomatoes	740	99	73,260	903	1.2	72,357	34
TOTAL FRESH	9,028		1,172,884	21,986		1,150,898	
Processed Fruit and Vegetables							
Apple Juice	372	106	39,408	162	0.4	39,246	11
Blueberries, Frozen	18	166	2,989	65	2.2	2,924	20
Grape Juice	745	154	114,451	848	0.7	113,603	12
Kidney Beans, Canned	186	168	31,281	0	0	31,281	0
Sweet Corn, Frozen	33	126	4,160	0	0	4,160	0
TOTAL PROCESSED	1,354		192,289	1,075		191,214	
Fruit and Vegetable Totals							
Number of Samples Analyzed = 10,382				Percent of Total Residue Detections = 1.7%			
Average Number of Analyses Performed on Each Sample = 131				Total Number of Non-Detects = 1,342,112			
Total Number of Analyses Performed = 1,365,173				Total Number of Residue Detections = 23,061			
Total Number of Different Pesticides Detected = 116							
Nut Product							
Almonds	186	72	13,392	187	1.4	13,205	9
Grain Product							
Corn Grain	650	97	63,167	422	0.7	62,745	13
Rice	184	80	14,651	106	0.7	14,545	12
Honey							
Honey	558	164	91,512	376	0.4	91,136	12
All Commodities (excludes 250 groundwater, 619 drinking water, and 552 catfish samples)							
Number of Samples Analyzed = 11,960				Percent of Total Residue Detections = 1.6%			
Average Number of Analyses Performed on Each Sample = 129				Total Number of Non-Detects = 1,523,743			
Total Number of Analyses Performed = 1,547,895				Total Number of Residue Detections = 24,152			
Total Number of Different Pesticides Detected = 126							

Table 3. Number of Samples Analyzed and Summary of Results Per Commodity. *Percent of residue detections and percent of non-detects are obtained by comparing the total number of residues detected and the total number of non-detects to the total number of analyses performed per commodity, respectively. The average number of analyses performed per sample is also shown.*

corn grain 0.7 percent, and rice 0.7 percent. Of the 11,960 samples analyzed, the overall percentage of total residue detections was 1.6 percent. Excluded from Table 3 are catfish, groundwater, and treated and untreated drinking water, which are presented separately in Appendix E (catfish), Appendix H (groundwater), and Appendix I (drinking water). Catfish and water are not included in the statistics for overall sample results because residue levels, if found, are mainly the result of environmental contamination or transfer, rather than from registered agricultural uses on the commodity.

Appendix B tabulates the distribution of residues in fruit and vegetables for the complete 2008 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; range of analytical LODs; and EPA tolerance levels or FDA action levels. Appendices C, D, E, F, G, H, and I provide the distribution of residues for almonds, honey, catfish, corn grain, rice, groundwater, and treated and untreated drinking water, respectively. The individual sample data can be downloaded from the PDP Website at http://www.ams.usda.gov/pdp 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 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, 98.4 percent of the analyses performed across all fresh and processed fruit and vegetable commodities, corn grain, rice, honey, and almonds were reported as non-detects (i.e., results were below the established LOD). For samples containing residues, the vast majority of the detections were well below established tolerances.

♦ 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 of the PDP fruit and vegetable commodities in 2008. The data generated by PDP reflect pesticide residues in foods, both domestic and imported products, available to the U.S. consumer. Many commodities are almost entirely of domestic origin, such as spinach (96%) with only minor import and unknown components (3% and less than 1%, respectively). However, some fresh commodities, such as blueberries, green beans, and tomatoes, are from domestic growers part of the year and imported during the remaining months, as illustrated in Figure 4.

Comparisons of selected residues detected in imported versus domestic blueberries, peaches, and tomatoes can be found in Appendix K. 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 show that the residue profiles for domestic and imported crops are significantly different.

The blueberry data in Appendix K illustrate, in 2007-2008 combined, boscalid, fenbuconazole, phosmet, and pyraclostrobin were detected more frequently in domestic samples than in imported samples. For example, boscalid was detected in 49.9 percent of the U.S. samples, 28.1 percent in the samples from Argentina, and 3.4 percent in the samples from Chile. Carbendazim and iprodione were detected more frequently in the samples from Argentina (39.4% and 42.7%, respectively) and Chile (29.4% and 33.7%, respectively) than in the domestic samples (11.7% and 4.1%, respectively).

For peaches, iprodione and the organophosphates azinphos methyl and chlorpyrifos were detected more often in the imported peach samples than in the domestic peach samples. Iprodione was detected in 99.2 percent of the Chilean peaches compared to 1.3 percent of the domestic samples. Azinphos methyl was detected in 84.0 percent of the Chilean samples compared to 1.8 percent of the domestic samples. Chlorpyrifos was detected in

49.1 percent of the Chilean samples compared to 2.7 percent of the domestic samples. Conversely, boscalid, fludioxonil, and methoxyfenozide (reduced risk pesticides registered as organophosphate alternatives), phosmet (an organophosphate with lower toxicity), and propiconazole were detected more often in the domestic peach samples than the imported peach samples. Boscalid was detected in 20.4 percent of the domestic peach samples and 0.5 percent of the Chilean peach samples. Fludioxonil was detected in 68.1 percent of the domestic samples and in 0.5 percent of the Chilean peach samples. Methoxyfenozide was detected in 24.6 percent of the domestic peach samples and in 2.9 percent of the Chilean peach samples. Phosmet and propiconazole were detected in 49.4 percent and 16.3 percent (respectively) of the domestic samples compared to 0.5 percent and 0.9 percent (respectively) of the imported samples.

For tomatoes, chlorothalonil was detected slightly more often on domestic tomatoes (16.9%) than on tomatoes originating from Mexico (9.8%). Azoxystrobin, endosulfan I, and endosulfan II were detected slightly more frequently in tomatoes from Mexico (23.7%, 14.4% and 21.1%, respectively) than in tomatoes of U.S. origin (8.0%, 9.3% and 17.1%, respectively). Endosulfan sulfate was detected with relatively equal frequency in both the domestic (16.2%) and imported tomatoes from Mexico (14.8%).

These differences in residue profiles may be attributed to recent U.S. registration decisions. The 1996 FQPA required EPA to reassess the safety of existing tolerances and tolerance exemptions by August 3, 2006, while simultaneously making determinations about the reregistration of existing pesticides and reviewing the registrations of pesticide end-use products. This tolerance reassessment effort has led, among other things, to EPA decisions to revoke or modify thousands of existing tolerances, and to require the establishment of many new tolerances, improving food safety and human health protection in the United States. Many of these new tolerances are for safer replacement pesticides. Overall, residues detected in domestic samples reflected the transition towards use of replacement pesticides, whereas imports had residues of pesticides phased out of the U.S. market.

♦ National Estimates

National estimates for selected pesticide/commodity pairs with detections in at least 5 percent of samples tested are shown in Appendix L. 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 all commodities were weighted to reflect monthly variations in marketing

♦ 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., azoxystrobin, imazalil, o-phenylphenol, and thiabendazole) and sprouting inhibitors (e.g., chlorpropham). Some detections reported in Appendix B most likely reflect postharvest applications to the raw agricultural commodity.

♦ Special Projects

Formetanate Hydrochloride: PDP conducted a special survey to determine the relative frequency and concentration of formetanate hydrochloride (HCl) on nectarines and peaches. Homogenates of 667 nectarine and 595 peach samples were shipped by the California, Ohio, and Washington laboratories to the U.S. EPA ACL in Fort Meade, MD, for analysis. Appendix B shows that 355 samples (53.2%) of nectarines and 115 samples (19.3%) of peaches exhibited detectable residues of formetanate HCl.

Honey: The USDA, AMS, NSL conducted testing for pesticide residues on 558 samples of honey. The randomly collected samples included fluid (viscous) honey, creamed honey, and jars containing liquid honey with honeycomb. Overall, there were a total of 376 residue detections in honey, representing 12 different pesticides. The data for honey in Appendix D indicate that coumaphos was detected most frequently in 180 samples (32.3%). 2,4-dimethylphenyl formamide (2,4-DMPF), a metabolite of amitraz was detected in 73 samples (13.1%). Fluvalinate was detected in 69 samples (12.4%). Dicofol p,p' was detected in 32 samples (5.7%). Less than 5 percent of the honey samples contained low levels of each of the following residues: azoxystrobin, carbendazim, chlorpyrifos, dicloran, methoxyfenozide, permethrin, piperonyl butoxide, and vinclozolin.

Catfish: The USDA, AMS, NSL, conducted testing for pesticide residues on 552 catfish samples. Overall, 44 different residues were detected in the catfish samples. The DDT metabolites DDE, p,p' (84.6%) and DDD p,p' (42.6%) were the most frequently detected residues. Other residues detected in more than 5% of the samples include: diphenylamine (24.1%), DDD o,p' (17.2%), toxaphene (9.4%), diuron (8.0%), chlorpyrifos (6.9%), and endosulfan sulfate (6.5%).

Diphenylamine (DPA) is an environmental pollutant. DPA and derivatives are most commonly used as stabilizers in nitrocellulose-containing explosives and propellants, in the perfume industry, and as antioxidants in the rubber and elastomer industry. DPA is also widely used to prevent post-harvest deterioration of apple and pear crops. DPA is a parent compound of many derivatives, which are used for the production of dyes, pharmaceuticals, photography chemicals, and further small-scale applications. Diphenylamines are still produced worldwide by the chemical industries and have been found in soil and groundwater. Therefore, any findings in catfish may arise from a number of attributable sources.

Diuron is used as an algaecide to control the growth of blue-green algae, which can cause an off-flavor in catfish. Residues may also be the result of allowed food handling establishment uses. Finally, a number of low-level residue findings were reported for residues for which no tolerance is established in fish or catfish. Appendix E provides details on the distribution of residues for catfish.

Corn Grain: The USDA GIPSA laboratory conducted testing on 650 corn grain samples. Appendix F shows that there were 15 different residues detected in the corn grain samples. The most frequently detected residue was malathion, which was detected in 219 samples (33.7%). Chlorpyrifos was detected in 116 samples (17.8%). Other compounds detected in more than 1 percent of the samples include: permethrin (5.7%), pirimiphos methyl (3.1%), and piperonyl butoxide (2.7%). Ametryn; cyfluthrin; DDD p,p'; DDE p,p'; ethoprop; heptachlor epoxide; malathion oxygen analog; metalaxyl; methoxychlor p,p', and metolachlor were detected in less than one percent of the corn grain samples.

Rice: The USDA GIPSA laboratory conducted testing on 184 rice samples. Appendix G shows there were 13 different residues detected in the rice samples. The most frequently detected residue was piperonyl butoxide which was detected in 57 samples (31.0%). MGK-264 was detected in 27 samples (14.7%). Other compounds detected in one or more percent of the samples include: malathion (4.3%), resmethrin (2.2%), carbaryl (1.1%), and DDD p,p' (1.0%). Azoxystrobin; DDT p,p'; fludioxonil; hydroprene; lindane; myclobutanil; and parathion methyl were detected in less than one percent of the rice samples.

♦ Potable Groundwater from Domestic Wells

Approximately 15 percent of the U.S. population obtains its domestic water from private wells. Many of these wells are located in agricultural areas and may be susceptible to pesticides, so in dietary risk assessments, it is necessary to monitor these shallow groundwater wells to account for exposure through water consumption.

Pesticide mobility varies widely. Many pesticides bind tightly to soils and therefore are unlikely to be found in groundwater. Water-soluble pesti-

cides can dissolve in water and move through the soil to reach the water table. Unlike surface water, movement of pesticides in soils and rock is much slower than the movement of surface water (several centimeters per year for movement in soils/rock compared to many meters per year for movement in surface water; hence changes in pesticide concentrations are much less variable and samples need not be taken as frequently. For this groundwater study, samples were taken twice a year (spring and fall) rather than bimonthly as with the surface water samples.

When pesticides are detected in groundwater, the source is not always the immediate surface above but can be where the water is entering, or recharging, the aquifer. Thus, if pesticides are being used in the recharge zone, they may be transported through the aquifer to the well. Some correlation can be made between depth and the number of residues detected; however, depth is not the sole factor in pesticide movement in an aquifer.

In 2008, PDP scheduled sampling of 135 potable groundwater wells in both the spring and fall. A total of 249 samples were collected. Figure 6 shows the distribution of groundwater collection sites for the 2008 PDP testing program. Of the 135 collection sites, 59 wells (44%) contained detectable residues. Thirty-seven different pesticide residues (including metabolites) were detected. Concentrations varied from at or near the detection limit up to 7.72 parts per billion. Residue profiles are shown in Appendix H.

♦ Municipal Drinking Water

In 2001, PDP began testing municipal waters drawing from surface water sources because surface water is more vulnerable to pesticides than municipal waters that draw from groundwater sources. Most municipal systems drawing from groundwater draw from fairly deep (>200 foot) aquifers that are not affected by pesticides.

Figure 7 shows the distribution of drinking water sites for the 2008 PDP testing program. Untreated and finished drinking water samples were collected from community water systems in Arizona, Florida, Georgia, Indiana, Maryland (2 sites), Minnesota, Montana, North Dakota, Ohio, Texas, and Virginia. 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 619 water samples from community water systems using MRMs to test for 217 pesticides and metabolites. Treatment plants participating in the 2008 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. Fifty-nine different residues were detected in the finished drinking water and 63 residues were detected in the untreated intake 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 Maximum Contaminant Level (MCL) or Health Advisory (HA) levels.

Appendix I 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 2008, 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 I shows the concentration of detected

residues in treated and untreated water. In most cases, there were more detections in the untreated water than in the treated water. In a few cases, residues detected in the treated water were not found in the untreated water. The data acquired to date indicate 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.

♦ Environmental Contaminants

Environmental contaminants are pesticides whose uses have been canceled in the United States, but their residues persist in the environment, particularly in soil, where they may be taken up by plants. PDP tracks environmental contaminants to monitor their presence in the environment and provides these data to Codex Alimentarius. These data are also used to facilitate international trade.

DDT, DDD, and DDE: PDP screened samples for various metabolites of DDT including: DDT o,p'; DDT p,p'; DDD o,p'; DDD p,p', DDE o,p'; and DDE p,p'. Use of DDT has been prohibited in the United States since 1972; however, due to its persistence in the environment, residues of the DDT p,p', DDD p,p', and DDE p,p' metabolites were detected in some commodities tested. Of these, the DDE p,p' metabolite was the most frequently detected. DDE p,p' was detected mainly in catfish (84.6%), spinach (34.7%), collard greens (28.7%), kale greens (28.0%), and celery (13.9%). In all cases, residues detected were much lower than the FDA action levels. None of the water samples (treated or untreated) had residues of DDT or its metabolites. Details of residue results for DDT, DDD, and DDE may be found in Appendices B, C, D, E, F, G, and I.

Other Extraneous Pesticides: PDP screened samples for other extraneous residues (environmental contaminants) including: aldrin; dieldrin; heptachlor and its epoxide metabolite; chlordane (cis/trans) and its metabolite oxychlordane, and hexachlorobenzene (HCB). HCB was used as a seed protectant until 1965 but, due to its persistence, remains in soil and grasses. In 1974, all aldrin and dieldrin uses were canceled in the United States and, in 1978, all heptachlor uses were canceled. In 1986, chlordane uses, except termiticide uses, were canceled. Despite these cancellations and because they persist in the environment, residues of HCB, dieldrin, heptachlor epoxide, and chlordane were detected in some of the tested commodities. For example, dieldrin was detected in 12.8 percent of summer squash samples and 9.8 percent of kale greens samples. All other detections of environmental contaminant residues were at a frequency below 5 percent. For all cases, the detected levels were much lower than the FDA action levels. None of the water samples (treated or untreated) had residues of aldrin, dieldrin, heptachlor epoxide, or chlordane and its metabolite oxychlordane. Details of residue results for environmental contaminants may be found in Appendices B, C, D, E, F, G, H, and I.

♦ Multiple Pesticide Residue Detections

By virtue of the MRMs employed, PDP provides novel data that can be used by EPA to evaluate exposure to multiple residues from the same commodity. The data are crucial for assessments that consider cumulative exposure to pesticides determined to have common mechanisms of toxicity. The distribution of multiple pesticides occurring in samples tested during 2008 is presented in Appendix M.

These data indicate that approximately 30 percent of all samples tested, excluding catfish, groundwater, and treated and untreated drinking water, contained no detectable pesticides, 24 percent contained 1 pesticide, and 46 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 M of this Summary.

Two celery samples had detections of 13 pesticides each. 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 or 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 may or may 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. The FQPA of 1996 contains an amendment to the Federal Insecticide, Fungicide and Rodenticide Act that requires the EPA to review each pesticide registration every 15 years. Timely pesticide data provided by PDP enables the EPA to refine risk estimates used in the pesticide reregistration process.

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. Unlike enforcement programs, PDP emphasizes determination of residues at the lowest detectable levels rather than quick turn-around times. When PDP identifies samples with residues exceeding the tolerance or with residues for which there is no established tolerance, these detections are reported to FDA regional and headquarters offices. This notification is made in accordance with a Memorandum of Understanding between USDA and FDA for the purpose of pinpointing areas where closer surveillance may be needed. FDA enforcement action has not been a practical response to PDP analysis because of the time required between sample collection and data reporting.

Residues exceeding the established tolerance are noted with an "X" in Appendices B, C, D, E, F, and G. 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. The EPA tolerances cited in this summary and Appendices apply to 2008 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative.

An established tolerance may apply to more than one residue because pesticides may 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 N are combined residues of parent and any isomers and/or metabolites to count the total number of samples with tolerance violations.

For fresh and processed fruit and vegetables, corn grain, honey, and rice, a total of 493 samples with 541 residues were reported to the FDA as Presumptive Tolerance Violations. Residues exceeding the tolerance were detected in 60 (0.5 %) of the 11,960 samples tested. The samples containing residues that exceed established tolerances include: 3 blueberry samples, 2 celery samples, 1 corn grain sample, 2 green bean samples, 11 samples of collard greens, 10 kale samples, 7 potato samples, 16 spinach samples, 2 samples of strawberries, 5 samples of summer squash, and 1 tomato sample. Of those 60 samples, 9 were reported as imported produce and 1 was of unknown origin. Fifty-eight samples contained one residue exceeding the established tolerance and two samples contained two residues exceeding the established tolerances.

Residues with no established tolerance were found in 442 (3.7 %) of the samples, which included 397 fruit and vegetable samples, 2 samples of corn

grain, and 43 honey samples. There were 413 samples with 1 residue each, 23 samples with 2 residues each, 4 samples with 3 residues each, and 2 samples with 4 residues each. Nine samples with residues having no established tolerance each contained 1 residue that exceeded an established tolerance. In most cases, these residues were detected at very low levels and some residues may have resulted from spray drift or crop rotations. The residue levels and commodities are listed in Appendix N.

Appendix A

Commodity History

Appendix A identifies commodities sampled by the Pesticide Data Program (PDP) through December 2009. Updates to this list are posted on the PDP Web site at www.ams.usda.gov/pdp.

COMMODITY HISTORY AS OF DECEMBER 2009

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	Jan-09	Ongoing
Apples (T-1)	Jan-03	Dec-03
Asparagus	Jan-02	Jun-03
Asparagus	Jul-08	Ongoing
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	Dec-08
Broccoli	Oct-92	Dec-94
Broccoli	Jan-01	Dec-02
Broccoli	Oct-06	Sep-08
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	Dec-08
Cherries [3]	May-00	Aug-01
Cherries	May-07	Sep-07
Cilantro	Oct-09	Ongoing
Cranberries	Oct-06	Dec-06
Cucumbers	Jan-99	Dec-00
Cucumbers	Oct-02	Sep-04
Cucumbers	Jan-09	Ongoing
Eggplant	Jan-05	Dec-06
Eggs (TSP)	Jul-03	Dec-03

Commodity	Start Date	End Date
Grapefruit	Aug-91	Dec-93
Grapefruit	Jan-05	Dec-06
Grapes [1]	May-91	Dec-96
Grapes	Jan-00	Dec-01
Grapes (TSP)	Jul-03	Dec-03
Grapes	Jan-04	Dec-05
Grapes	Jan-09	Ongoing
Green Beans	Feb-92	Dec-95
Green Beans	Jan-00	Dec-01
Green Beans	Apr-04	Mar-05
Green Beans	Jan-07	Dec-08
Green Onions (scallions)	Oct-08	Sep-09
Greens (collard & kale)	Oct-06	Sep-08
Lettuce	May-91	Dec-94
Lettuce	Oct-99	Sep-01
Lettuce	Jan-04	Dec-05
Lettuce, Organic	Jan-09	Ongoing
Mushrooms	Oct-01	Sep-03
Nectarines [4]	Jul-00	Sep-01
Nectarines	Jan-07	Dec-08
Onions	Jan-02	Dec-03
Oranges [1]	Aug-91	Dec-96
Oranges	Jan-00	Dec-01
Oranges	Jan-04	Dec-05
Oranges	Jan-09	Ongoing
Peaches	Feb-92	Sep-96
Peaches (S-3)	Jan-00	Sep-00
Peaches [5]	Jan-01	Sep-02
Peaches (T-1)	May-03	Sep-03
Peaches	Oct-06	Sep-08
Pears	Jan-97	Jun-99
Pears (S-1)	Jul-98	Jun-99
Pears	Oct-03	Sep-05
Pears	Jan-09	Ongoing
Pineapples	Jul-00	Jun-02
Plums [6]	Jan-05	Dec-06
Potatoes	May-91	Dec-95
Potatoes (S-4)	Dec-96	Dec-97

Commodity	Start Date	End Date
Potatoes	Jul-00	Jun-02
Potatoes	Jan-08	Ongoing
Spinach [1]	Jan-95	Sep-97
Spinach	Jul-02	Dec-03
Spinach [7]	Jan-06	Sep-06
Spinach	Jan-08	Ongoing
Strawberries [2]	Jan-98	Sep-00
Strawberries	Jan-04	Dec-05
Strawberries	Jan-08	Ongoing
Summer Squash	Oct-06	Sep-08
Sweet Corn (on-the-cob)	Oct-08	Ongoing
Sweet Bell Peppers	Jan-99	Dec-00
Sweet Bell Peppers	Oct-02	Sep-04
Sweet Potatoes [1]	Jan-96	Jun-98
Sweet Potatoes	Jan-03	Dec-04
Sweet Potatoes	Oct-08	Ongoing
Tomatoes [1]	Jul-96	Jun-99
Tomatoes	Jan-03	Dec-04
Tomatoes	Jan-07	Dec-08
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 2 years (May-00 - Aug-01) for a total of 6 months.

[4] Sampling adjusted for market availability. Nectarines were sampled for 2 years (Jul-00 - Sep-01) for a total of 6 months.

[5] Sampling adjusted for market availability. Peaches were sampled for 2 years (Jan-01 - Sep-02) for a total of 16 months.

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

[7] Spinach ended earlier than planned due to the unavailibility 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
Apple Juice [1]	Jul-96	Dec-98
Apple Juice	Jan-02	Dec-02
Apple Juice	Jul-07	Jun-08
Applesauce	Jul-02	Dec-02
Applesauce	Jan-06	Dec-06
Asparagus, Canned	Jul-03	Dec-03
Beans, Canned (4 varieties)	Oct-08	Ongoing
Blueberries, Frozen [2]	Jan-07	Dec-08
Corn Syrup [3]	Jan-98	Jun-99
Grape Juice	Jan-98	Dec-99
Grape Juice	Jan-08	Dec-08
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	Sep-08
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
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
Sweet Corn, Canned/Frozen [4]	Oct-01	Sep-03
Sweet Corn, Frozen [2]	Oct-08	Ongoing

Commodity	Start Date	End Date
Tomato Paste, Canned	Jan-01	Jun-01
Tomato Paste, Canned	Jan-09	Ongoing
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
Almonds	Jul-07	Mar-08
Barley	Oct-01	Sep-03
Corn	Oct-06	Sep-08
Oats	Jul-99	Apr-00
Rice	Oct-00	Sep-02
Rice[1]	Oct-08	Sep-09
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

Nuts and Nut Products

Commodity	Start Date	End Date
Almonds	Jul-07	Mar-08
Peanut Butter	Jan-00	Dec-00
Peanut Butter	Jan-06	Dec-06
Peanut Butter (TSP)	Jul-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 [2]	Jan-96	Oct-98
Milk (TSP)	Jul-03	Dec-03
Milk	Jan-04	Dec-05

Meat / Poultry / Fish 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
Beef[3]	Cows, Heifers, Steers	Dec-08	Ongoing
Pork	Gilt, Barrow	Jan-05	Jun-05
Fish	Catfish	Apr-08	Ongoing

Other

Commodity	Start Date	End Date
Honey	Oct-07	Sep-08

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	Jan-04	Ongoing
Arizona, Florida, Georgia, Indiana, Maryland, Minnesota, Montana, North Dakota, Ohio, Texas, Virginia		
Bottled Water		
10 Participating States	Jan-05	Dec-06
Groundwater		
136 Private Wells in 12 States	Jan-07	Ongoing

[1] Includes hiatus May-July 2009

[2] Excludes sampling hiatus September - November 1996

[3] Survey ends 7 months early due to budgetary constraints

(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), and U.S. Environmental Protection Agency (EPA) tolerances for each pair. The EPA tolerances cited in this summary and Appendices apply to 2008 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2008, 10,382 fruit and vegetable samples were analyzed, of which 9,028 were fresh product and 1,354 were processed product.

The Pesticide Data Program reports tolerance violations to the U.S. 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, 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. Under the Food Quality Protection Act, responsibility for establishing tolerances in lieu of ALs has been transferred to EPA. In the interim, ALs are used.

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

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
2,4,5-T (herbicide)						
Potatoes	744	0			0.030 ^	NT
Spinach	744	0			0.030 ^	NT
TOTAL	**1,488**	**0**				
2,4-D (herbicide)						
Grape Juice	245	0			0.054 ^	0.1
Potatoes	744	22	3	0.020 - 0.20	0.020 ^	0.4
Spinach	744	0			0.020 ^	0.4
Strawberries	504	0			0.054 ^	0.1
TOTAL	**2,237**	**22**				
2,4-DB (herbicide)						
Potatoes	744	0			0.030 ^	NT
Spinach	722	0			0.030 ^	NT
TOTAL	**1,466**	**0**				
Acephate (insecticide)						
Apple Juice	372	0			0.002 - 0.010	0.02
Asparagus	372	0			0.002 - 0.084	3.0
Blueberries	726	1	0.1	0.003 ^	0.002 ^	0.02
Blueberries, Frozen	18	0			0.002 ^	0.02
Celery	741	259	35	0.003 - 0.77	0.002 - 0.007	10
Grape Juice	745	0			0.002 - 0.054	0.02
Green Beans	741	210	28.3	0.003 - 2.0	0.002 - 0.005	3.0
Green Onions	186	0			0.005 ^	0.02
Greens, Collard (X-1)	240	1	0.4	0.66 ^	0.002 - 0.030	0.02
Greens, Kale	318	0			0.002 - 0.030	0.02
Kidney Beans, Canned	54	0			0.002 ^	3.0
Nectarines	672	2	0.3	0.015 ^	0.009 ^	0.02
Peaches	616	0			0.002 ^	0.02
Potatoes	524	0			0.002 ^	0.02
Spinach (X-1)	744	9	1.2	0.003 - 0.10	0.002 - 0.005	0.02
Strawberries	215	1	0.5	0.003 ^	0.002 ^	0.02
Summer Squash (X-2)	554	7	1.3	0.008 - 0.20	0.002 - 0.005	0.02
Sweet Corn, Fresh	47	0			0.002 ^	0.02
Sweet Corn, Frozen	7	0			0.002 ^	0.02
Sweet Potatoes	54	0			0.002 ^	0.02
Tomatoes	740	1	0.1	0.015 ^	0.009 ^	0.02
TOTAL	**8,686**	**491**				
Acetamiprid (insecticide)						
Apple Juice	108	36	33.3	0.002 - 0.019	0.001 ^	1.0
Asparagus	108	0			0.001 ^	0.60
Blueberries	726	27	3.7	0.001 - 0.041	0.0006 - 0.001	1.6
Blueberries, Frozen	18	0			0.0006 - 0.001	1.6
Broccoli	554	6	1.1	0.001 - 0.008	0.0006 ^	1.20
Celery	741	164	22.1	0.001 - 0.068	0.0006 - 0.001	3.00
Grape Juice	745	3	0.4	0.002 ^	0.001 - 0.010	0.20
Green Beans	741	3	0.4	0.002 - 0.014	0.001 - 0.010	0.60
Green Onions	186	0			0.001 ^	4.5
Greens, Collard (X-1)	240	8	3.3	0.007 - 1.4	0.001 - 0.010	1.20
Greens, Kale	318	27	8.5	0.002 - 0.90	0.001 - 0.010	1.20
Kidney Beans, Canned	186	0			0.001 - 0.003	0.40
Peaches	377	6	1.6	0.004 - 0.056	0.001 - 0.003	1.20
Potatoes	722	0			0.001 - 0.003	0.01
Spinach	744	31	4.2	0.002 - 0.60	0.001 - 0.010	3.00
Strawberries	741	79	10.7	0.002 - 0.25	0.001 - 0.010	0.60
Summer Squash	158	1	0.6	0.002 ^	0.001 ^	0.5
Sweet Corn, Fresh	47	0			0.001 ^	NT

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
Sweet Corn, Frozen	7	0			0.001 ^	NT
Sweet Potatoes	54	0			0.001 ^	0.01
Tomatoes	740	25	3.4	0.012 - 0.099	0.007 ^	0.20
TOTAL	**8,261**	**416**				
Acetochlor (herbicide)						
Sweet Corn, Fresh	105	0			0.020 ^	0.05
Sweet Corn, Frozen	26	0			0.020 ^	0.05
TOTAL	**131**	**0**				
Acibenzolar S methyl (plant activator)						
Blueberries	515	0			0.007 ^	NT
Blueberries, Frozen	13	0			0.007 ^	NT
Broccoli	523	0			0.007 ^	1.0
Celery	526	0			0.045 ^	0.25
Green Onions	186	0			0.007 ^	0.05
Tomatoes	740	0			0.021 ^	1.0
TOTAL	**2,503**	**0**				
Alachlor (herbicide)						
Sweet Corn, Fresh	105	0			0.020 ^	0.05
Sweet Corn, Frozen	26	0			0.020 ^	0.05
TOTAL	**131**	**0**				
Aldicarb (insecticide)						
Apple Juice	108	0			0.007 ^	NT
Asparagus	108	0			0.007 ^	NT
Blueberries	726	0			0.002 - 0.007	NT
Blueberries, Frozen	18	0			0.002 - 0.007	NT
Broccoli	554	0			0.002 ^	NT
Celery	741	0			0.002 - 0.007	NT
Grape Juice	722	0			0.007 - 0.049	NT
Green Beans	741	0			0.007 - 0.010	NT
Green Onions	108	0			0.003 - 0.006	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.007	NT
Peaches	377	0			0.003 - 0.007	NT
Potatoes	744	0			0.001 - 0.007	1
Spinach	743	0			0.007 - 0.010	NT
Strawberries	741	0			0.007 - 0.049	NT
Summer Squash	158	0			0.007 ^	NT
Sweet Corn, Fresh	47	0			0.007 ^	NT
Sweet Corn, Frozen	7	0			0.007 ^	NT
Sweet Potatoes	184	0			0.007 - 0.010	0.1
TOTAL	**7,409**	**0**				
Aldicarb sulfone (metabolite of Aldicarb)						
Apple Juice	108	0			0.009 ^	NT
Asparagus	108	0			0.009 ^	NT
Blueberries	726	0			0.003 - 0.020	NT
Blueberries, Frozen	18	0			0.003 - 0.020	NT
Broccoli	538	0			0.003 ^	NT
Celery	741	0			0.003 - 0.009	NT
Grape Juice	745	0			0.009 - 0.010	NT
Green Beans	215	0			0.009 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.009	NT
Peaches	377	0			0.003 - 0.009	NT
Potatoes	744	14	1.9	0.002 - 0.062	0.001 - 0.009	1
Spinach	216	0			0.009 ^	NT
Strawberries	676	0			0.009 - 0.010	NT
Summer Squash (V-1)	158	1	0.6	0.033 ^	0.009 ^	NT

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
Sweet Corn, Fresh	47	0			0.009 ^	NT
Sweet Corn, Frozen	7	0			0.009 ^	NT
Sweet Potatoes	184	1	0.5	0.027 ^	0.009 - 0.010	0.1
TOTAL	**5,980**	**16**				
Aldicarb sulfoxide (metabolite of Aldicarb)						
Apple Juice	108	0			0.005 ^	NT
Asparagus	108	0			0.005 ^	NT
Blueberries	726	0			0.002 - 0.012	NT
Blueberries, Frozen	18	0			0.002 - 0.012	NT
Celery	741	0			0.002 - 0.005	NT
Grape Juice	701	0			0.005 - 0.16	NT
Green Beans	215	0			0.005 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.005	NT
Peaches	377	0			0.003 - 0.005	NT
Potatoes	744	30	4	0.002 - 0.34	0.001 - 0.005	1
Spinach	216	0			0.005 ^	NT
Strawberries	653	0			0.005 - 0.16	NT
Summer Squash	158	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	184	1	0.5	0.041 ^	0.005 - 0.010	0.1
TOTAL	**5,375**	**31**				
Aldrin (insecticide) (parent of Dieldrin)						
Apple Juice	372	0			0.002 - 0.003	0.03 AL
Asparagus	350	0			0.003 - 0.040	0.03 AL
Blueberries	726	0			0.003 - 0.007	0.05 AL
Blueberries, Frozen	18	0			0.003 - 0.007	0.05 AL
Broccoli	554	0			0.007 ^	0.03 AL
Celery	741	0			0.003 - 0.007	0.03 AL
Grape Juice	745	0			0.003 - 0.020	0.05 AL
Green Beans	215	0			0.003 ^	0.05 AL
Green Onions	186	0			0.007 ^	0.1 AL
Greens, Collard	80	0			0.003 ^	0.05 AL
Greens, Kale	82	0			0.003 ^	0.05 AL
Kidney Beans, Canned	186	0			0.003 ^	0.05 AL
Nectarines	672	0			0.006 ^	0.03 AL
Peaches	616	0			0.003 ^	0.03 AL
Potatoes	744	0			0.003 ^	0.1 AL
Spinach	216	0			0.003 ^	0.05 AL
Strawberries	741	0			0.003 - 0.020	0.05 AL
Summer Squash	554	0			0.002 - 0.003	0.1 AL
Sweet Corn, Fresh	152	0			0.003 - 0.040	0.02 AL
Sweet Corn, Frozen	33	0			0.003 - 0.040	0.02 AL
Sweet Potatoes	162	0			0.003 ^	0.1 AL
Tomatoes	740	0			0.004 ^	0.05 AL
TOTAL	**8,885**	**0**				
Allethrin (insecticide)						
Apple Juice	372	0			0.006 - 0.030	NT
Asparagus	372	0			0.015 - 0.030	NT
Blueberries	211	0			0.006 - 0.015	NT
Blueberries, Frozen	5	0			0.006 - 0.015	NT
Celery	195	0			0.010 ^	NT
Grape Juice	745	0			0.006 - 0.015	NT
Green Beans	215	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.015 - 0.020	NT
Peaches	616	0			0.010 ^	NT
Potatoes	436	0			0.006 - 0.020	NT
Spinach	216	0			0.006 - 0.015	NT
Strawberries	741	0			0.006 - 0.015	NT

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
Summer Squash	158	0			0.010 ^	NT
Sweet Corn, Fresh	152	0			0.015 - 0.030	NT
Sweet Corn, Frozen	33	0			0.015 - 0.030	NT
Sweet Potatoes	54	0			0.015 ^	NT
Tomatoes (V-1)	740	1	0.1	0.089 ^	0.023 ^	NT
TOTAL	**5,447**	**1**				
Ametryn (herbicide)						
Green Beans	526	0			0.010 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.010 ^	NT
Spinach	528	0			0.010 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.010	0.25
Sweet Corn, Frozen	33	0			0.002 - 0.010	0.25
Sweet Potatoes	184	0			0.010 ^	NT
TOTAL	**1,873**	**0**				
Atrazine (herbicide)						
Blueberries	485	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	507	0			0.002 ^	NT
Green Onions (V-1)	170	1	0.6	0.003 ^	0.002 ^	NT
Sweet Corn, Fresh	105	0			0.016 ^	0.20
Sweet Corn, Frozen	26	0			0.016 ^	0.20
TOTAL	**1,306**	**1**				
Azinphos (insecticide)						
Asparagus	108	0			0.005 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Potatoes	108	0			0.005 ^	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**486**	**0**				
Azinphos methyl (insecticide)						
Apple Juice	372	9	2.4	0.005 - 0.034	0.003 - 0.024	1.5
Asparagus	372	0			0.003 - 0.020	2.0
Blueberries	726	38	5.2	0.005 - 0.32	0.003 - 0.012	5.0
Blueberries, Frozen	18	2	11.1	0.014 - 0.020	0.003 - 0.012	5.0
Broccoli	554	0			0.012 ^	2.0
Celery	741	0			0.003 - 0.012	2.0
Grape Juice	745	0			0.003 ^	4.0
Green Beans	720	0			0.003 - 0.011	2.0
Green Onions	186	0			0.012 ^	2.0
Greens, Collard	160	0			0.011 ^	NT
Greens, Kale	235	0			0.011 ^	NT
Kidney Beans, Canned	186	0			0.003 ^	2.0
Nectarines	672	152	22.6	0.005 - 0.14	0.003 ^	2.0
Peaches	616	158	25.6	0.005 - 0.29	0.003 ^	2.0
Potatoes	744	2	0.3	0.002 - 0.003	0.001 - 0.003	0.2
Spinach	744	0			0.003 - 0.011	2.0
Strawberries	741	2	0.3	0.012 - 0.024	0.003 ^	2.0
Summer Squash	158	0			0.003 ^	NT
Sweet Corn, Fresh	152	0			0.003 - 0.040	NT
Sweet Corn, Frozen	33	0			0.003 - 0.040	NT
Sweet Potatoes	54	0			0.003 ^	NT
Tomatoes	740	0			0.003 ^	2.0
TOTAL	**9,669**	**363**				

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
Azinphos methyl oxygen analog (metabolite of Azinphos methyl)						
Asparagus	264	0			0.010 ^	2.0
Kidney Beans, Canned	132	0			0.010 ^	2.0
Peaches	197	0			0.011 ^	2.0
Potatoes	308	0			0.010 - 0.011	0.2
Sweet Corn, Fresh	105	0			0.010 ^	NT
Sweet Corn, Frozen	26	0			0.010 ^	NT
TOTAL	**1,032**	**0**				
Azoxystrobin (fungicide)						
Apple Juice	108	0			0.0005 ^	NT
Asparagus	372	0			0.0005 - 0.030	0.04
Blueberries	726	47	6.5	0.0008 - 0.54	0.0005 - 0.003	3.0
Blueberries, Frozen	18	3	16.7	0.002 - 0.025	0.0005 - 0.001	3.0
Broccoli	554	27	4.9	0.002 - 0.14	0.0009 - 0.006	30
Celery	741	145	19.6	0.0008 - 0.74	0.0005 - 0.003	30.0
Grape Juice	745	188	25.2	0.0004 - 0.003	0.0004 - 0.001	1.0
Green Beans	741	195	26.3	0.0008 - 0.32	0.0005 - 0.002	3.0
Green Onions	186	59	31.7	0.002 - 2.0	0.001 ^	7.5
Greens, Collard	240	61	25.4	0.0008 - 2.5	0.0005 - 0.002	25
Greens, Kale	318	48	15.1	0.0008 - 4.0	0.0005 - 0.002	25
Kidney Beans, Canned	186	0			0.001 - 0.003	0.5
Nectarines	672	3	0.4	0.003 - 0.013	0.002 ^	1.5
Peaches	616	7	1.1	0.003 - 0.061	0.0005 - 0.003	1.5
Potatoes (X-7)	744	131	17.6	0.0008 - 0.44	0.0005 - 0.003	0.03
Spinach	744	28	3.8	0.0008 - 4.0	0.0005 - 0.002	30.0
Strawberries	741	97	13.1	0.0005 - 0.48	0.0004 - 0.001	10
Summer Squash	554	9	1.6	0.0008 - 0.010	0.0005 - 0.030	0.30
Sweet Corn, Fresh	152	0			0.001 - 0.030	0.05
Sweet Corn, Frozen	33	0			0.001 - 0.030	0.05
Sweet Potatoes	184	0			0.001 - 0.002	0.03
Tomatoes	740	103	13.9	0.003 - 0.026	0.002 ^	0.20
TOTAL	**10,115**	**1,151**				
Bendiocarb (insecticide)						
Apple Juice	372	0			0.002 - 0.020	NT
Asparagus	108	0			0.002 ^	NT
Blueberries	726	0			0.002 - 0.040	NT
Blueberries, Frozen	18	0			0.002 - 0.040	NT
Celery	215	0			0.002 ^	NT
Grape Juice	745	0			0.002 - 0.008	NT
Green Beans	741	0			0.002 - 0.005	NT
Green Onions	186	0			0.040 ^	NT
Greens, Collard	240	0			0.002 - 0.005	NT
Greens, Kale	318	0			0.002 - 0.005	NT
Kidney Beans, Canned	186	0			0.002 - 0.003	NT
Nectarines	672	0			0.010 ^	NT
Peaches	616	0			0.001 - 0.003	NT
Potatoes	744	0			0.001 - 0.003	NT
Spinach	744	0			0.002 - 0.005	NT
Strawberries	741	0			0.002 - 0.008	NT
Summer Squash	554	0			0.002 - 0.015	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	184	0			0.002 - 0.005	NT
Tomatoes	740	0			0.010 ^	NT
TOTAL	**8,904**	**0**				
Benomyl (fungicide)						
Sweet Corn, Fresh	105	0			0.016 ^	0.2
Sweet Corn, Frozen	26	0			0.016 ^	0.2
TOTAL	**131**	**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
Benoxacor (herbicide safener)						
Apple Juice	108	0			0.004 ^	NT
Asparagus	108	0			0.004 ^	0.01
Blueberries	211	0			0.004 ^	NT
Blueberries, Frozen	5	0			0.004 ^	NT
Celery	215	0			0.015 ^	0.01
Grape Juice	745	0			0.004 - 0.007	NT
Green Beans	215	0			0.004 ^	0.01
Green Onions	186	0			0.002 ^	0.01
Kidney Beans, Canned	186	0			0.004 - 0.010	0.01
Nectarines	672	0			0.019 ^	0.01
Peaches	616	0			0.003 - 0.010	0.01
Potatoes	744	0			0.003 - 0.010	0.01
Spinach	216	0			0.004 ^	0.01
Strawberries	719	0			0.004 - 0.007	NT
Summer Squash	158	0			0.004 ^	NT
Sweet Corn, Fresh	152	0			0.004 - 0.020	0.01
Sweet Corn, Frozen	33	0			0.004 - 0.020	0.01
Sweet Potatoes	54	0			0.004 ^	NT
Tomatoes	740	0			0.011 ^	0.01
TOTAL	**6,083**	**0**				
Benthiavalicarb isopropyl (fungicide)						
Grape Juice	531	0			0.002 ^	0.25
Strawberries	526	0			0.002 ^	NT
TOTAL	**1,057**	**0**				
BHC alpha (insecticide)						
Apple Juice	372	0			0.002 ^	0.05 AL
Asparagus	350	0			0.002 - 0.080	0.05 AL
Blueberries	726	0			0.002 - 0.007	0.05 AL
Blueberries, Frozen	18	0			0.002 - 0.007	0.05 AL
Broccoli	538	0			0.007 ^	0.05 AL
Celery	741	0			0.002 - 0.007	0.05 AL
Grape Juice	745	0			0.002 - 0.025	0.05 AL
Green Beans	215	0			0.002 ^	0.05 AL
Green Onions	186	0			0.007 ^	0.05 AL
Greens, Collard	80	0			0.002 ^	0.05 AL
Greens, Kale	82	0			0.002 ^	0.05 AL
Kidney Beans, Canned	186	0			0.002 - 0.012	0.05 AL
Nectarines	672	0			0.004 ^	0.05 AL
Peaches	616	0			0.002 - 0.006	0.05 AL
Potatoes	744	0			0.002 - 0.012	0.05 AL
Spinach	216	0			0.002 ^	0.05 AL
Strawberries	719	0			0.002 - 0.025	0.05 AL
Summer Squash	554	0			0.002 ^	0.05 AL
Sweet Corn, Fresh	152	0			0.002 - 0.080	0.05 AL
Sweet Corn, Frozen	33	0			0.002 - 0.080	0.05 AL
Sweet Potatoes	184	0			0.002 - 0.003	0.05 AL
Tomatoes	740	0			0.003 ^	0.05 AL
TOTAL	**8,869**	**0**				
BHC beta (isomer of BHC alpha)						
Nectarines	672	0			0.003 ^	0.05 AL
Sweet Potatoes	130	0			0.003 ^	0.05 AL
Tomatoes	740	0			0.003 ^	0.05 AL
TOTAL	**1,542**	**0**				
Bifenazate (acaricide)						
Apple Juice	108	0			0.020 ^	0.75
Asparagus	108	0			0.020 ^	6.0
Blueberries	211	0			0.020 - 0.060	NT
Blueberries, Frozen	5	0			0.020 - 0.060	NT

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
Celery	215	0			0.020 ^	NT
Grape Juice	214	0			0.020 ^	0.75
Green Beans	215	0			0.020 ^	6.0
Kidney Beans, Canned	54	0			0.020 ^	0.70
Peaches	616	7	1.1	0.033 - 0.11	0.020 - 0.030	2.5
Potatoes	216	0			0.020 ^	0.05
Spinach	216	0			0.020 ^	NT
Strawberries	697	55	7.9	0.030 - 0.55	0.020 - 0.067	1.5
Summer Squash	158	0			0.020 ^	0.75
Sweet Corn, Fresh	47	0			0.020 ^	NT
Sweet Corn, Frozen	7	0			0.020 ^	NT
Sweet Potatoes	54	0			0.020 ^	0.01
TOTAL	**3,141**	**62**				
Bifenthrin (insecticide)						
Apple Juice	372	0			0.002 - 0.008	0.05
Asparagus	372	0			0.006 - 0.020	0.6
Blueberries	726	37	5.1	0.003 - 0.012	0.002 - 0.006	1.8
Blueberries, Frozen	18	1	5.6	0.010 ^	0.002 - 0.006	1.8
Broccoli	554	5	0.9	0.005 - 0.020	0.003 ^	0.6
Celery	721	0			0.003 - 0.010	3.0
Grape Juice	745	2	0.3	0.003 ^	0.002 - 0.006	0.2
Green Beans	741	30	4	0.017 - 0.13	0.010 - 0.038	0.6
Green Onions	186	1	0.5	0.013 ^	0.003 ^	0.05
Greens, Collard	80	0			0.010 ^	3.5
Greens, Kale	82	0			0.010 ^	3.5
Kidney Beans, Canned	186	0			0.006 - 0.008	0.6
Nectarines	672	0			0.037 ^	0.05
Peaches	616	0			0.010 ^	0.05
Potatoes	744	0			0.002 - 0.010	0.05
Spinach (X-1)	743	19	2.6	0.003 - 0.59	0.002 - 0.038	0.2
Strawberries	741	183	24.7	0.003 - 0.32	0.002 - 0.006	3.0
Summer Squash	554	15	2.7	0.007 - 0.026	0.004 - 0.010	0.4
Sweet Corn, Fresh	152	0			0.006 - 0.020	0.05
Sweet Corn, Frozen	33	0			0.006 - 0.020	0.05
Sweet Potatoes	184	0			0.006 - 0.038	0.05
Tomatoes	740	10	1.4	0.038 - 0.088	0.023 ^	0.15
TOTAL	**9,962**	**303**				
Bitertanol (fungicide)						
Green Beans	526	0			0.010 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Spinach	528	0			0.010 ^	NT
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**1,580**	**0**				
Boscalid (fungicide)						
Apple Juice	372	0			0.003 - 0.030	3.0
Asparagus	108	0			0.003 ^	1.6
Blueberries	726	254	35	0.004 - 1.1	0.003 - 0.006	13.0
Blueberries, Frozen	18	11	61.1	0.010 - 0.76	0.003 - 0.006	13.0
Broccoli	554	1	0.2	0.010 ^	0.006 ^	3.0
Celery	741	47	6.3	0.004 - 0.34	0.003 - 0.006	45
Grape Juice	745	5	0.7	0.004 ^	0.003 - 0.020	3.5
Green Beans	741	19	2.6	0.004 - 0.46	0.003 - 0.010	1.6
Green Onions	186	0			0.006 ^	3.0
Greens, Collard	240	26	10.8	0.004 - 0.55	0.003 - 0.010	18.0
Greens, Kale	318	24	7.5	0.004 - 4.2	0.003 - 0.010	18.0
Kidney Beans, Canned	186	0			0.003 ^	0.6
Nectarines	672	0			0.025 ^	1.7
Peaches	616	77	12.5	0.002 - 0.48	0.001 - 0.003	1.7
Potatoes	744	73	9.8	0.002 - 0.020	0.001 - 0.003	0.05

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
Spinach	744	73	9.8	0.004 - 0.049	0.003 - 0.010	60
Strawberries	741	357	48.2	0.004 - 0.82	0.003 - 0.020	4.5
Summer Squash	554	8	1.4	0.004 - 0.013	0.003 - 0.030	1.6
Sweet Corn, Fresh	47	0			0.003 ^	0.20
Sweet Corn, Frozen	7	0			0.003 ^	0.20
Sweet Potatoes	184	0			0.003 - 0.010	0.05
Tomatoes	740	17	2.3	0.060 - 0.44	0.036 ^	1.2
TOTAL	**9,984**	**992**				
Bromacil (herbicide)						
Kidney Beans, Canned	186	0			0.003 - 0.015	NT
Peaches	197	0			0.003 ^	NT
Potatoes (V-1)	308	1	0.3	0.004 ^	0.003 ^	NT
Sweet Corn, Fresh	47	0			0.015 ^	NT
Sweet Corn, Frozen	7	0			0.015 ^	NT
Sweet Potatoes	54	0			0.015 - 0.050	NT
TOTAL	**799**	**1**				
Buprofezin (insecticide)						
Apple Juice	372	0			0.015 - 0.040	4.0
Asparagus	108	0			0.015 ^	0.02
Blueberries	726	3	0.4	0.0002 ^	0.0001 - 0.015	2.5
Blueberries, Frozen	18	0			0.0001 - 0.015	2.5
Broccoli (V-1)	554	1	0.2	0.0002 ^	0.0001 ^	NT
Celery	741	0			0.0001 - 0.015	3.5
Grape Juice	745	0			0.0006 - 0.015	2.5
Green Beans	741	0			0.015 ^	0.02
Green Onions	186	0			0.001 ^	NT
Kidney Beans, Canned	186	0			0.015 ^	0.02
Peaches	616	0			0.015 ^	9.0
Potatoes	328	0			0.015 ^	NT
Spinach	744	0			0.015 ^	3.5
Strawberries	741	0			0.0006 - 0.015	2.5
Summer Squash	554	0			0.015 - 0.040	0.5
Sweet Corn, Fresh	47	0			0.015 ^	NT
Sweet Corn, Frozen	7	0			0.015 ^	NT
Sweet Potatoes	184	0			0.010 - 0.015	NT
Tomatoes	740	1	0.1	0.060 ^	0.036 ^	0.4
TOTAL	**8,338**	**5**				
Butylate (herbicide)						
Sweet Corn, Fresh	105	0			0.030 ^	0.1
Sweet Corn, Frozen	26	0			0.030 ^	0.1
TOTAL	**131**	**0**				
Captan (fungicide) (parent of THPI)						
Apple Juice	372	0			0.010 - 0.012	25
Asparagus	108	0			0.012 ^	0.05
Blueberries	211	37	17.5	0.020 - 0.60	0.012 ^	20.0
Blueberries, Frozen	5	2	40	0.066 - 0.81	0.012 ^	20.0
Celery	195	0			0.012 ^	0.05
Grape Juice	745	0			0.011 - 0.012	25.0
Green Beans	215	0			0.012 ^	0.05
Greens, Collard	80	0			0.012 ^	0.05
Greens, Kale	82	0			0.012 ^	0.05
Kidney Beans, Canned	186	0			0.011 - 0.012	0.05
Nectarines	672	6	0.9	0.027 - 0.54	0.016 ^	25.0
Peaches	616	48	7.8	0.020 - 0.69	0.012 ^	15
Potatoes	524	0			0.011 - 0.012	0.05
Spinach	198	0			0.012 ^	0.05
Strawberries	741	408	55.1	0.011 - 5.1	0.011 - 0.012	20.0
Summer Squash	554	5	0.9	0.017 ^	0.010 - 0.012	0.05
Sweet Corn, Fresh	47	0			0.012 ^	0.05

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
Sweet Corn, Frozen	7	0			0.012 ^	0.05
Sweet Potatoes	54	0			0.012 ^	0.05
Tomatoes	740	0			0.015 ^	0.05
TOTAL	**6,352**	**506**				
Carbaryl (insecticide)						
Apple Juice	372	13	3.5	0.003 - 0.061	0.002 - 0.020	10
Asparagus	372	0			0.002 - 0.010	15
Blueberries	726	46	6.3	0.0005 - 1.7	0.0003 - 0.002	10
Blueberries, Frozen	18	1	5.6	0.003 ^	0.0003 - 0.002	10
Broccoli	554	0			0.001 ^	10
Celery	741	19	2.6	0.0005 - 0.54	0.0003 - 0.002	10
Grape Juice	745	392	52.6	0.003 - 0.058	0.002 - 0.003	10
Green Beans	741	5	0.7	0.003 - 0.32	0.002 - 0.010	10
Green Onions	186	0			0.003 ^	NT
Greens, Collard	240	3	1.2	0.003 - 0.22	0.002 - 0.010	12
Greens, Kale	318	3	0.9	0.036 - 1.1	0.002 - 0.010	12
Kidney Beans, Canned	186	0			0.002 - 0.003	10
Nectarines	672	21	3.1	0.010 - 0.56	0.006 ^	10
Peaches	616	60	9.7	0.002 - 1.9	0.001 - 0.003	10
Potatoes	744	0			0.001 - 0.003	2.0
Spinach	744	0			0.002 - 0.010	22
Strawberries	741	7	0.9	0.010 - 0.66	0.002 - 0.003	10
Summer Squash	554	0			0.002 - 0.006	10
Sweet Corn, Fresh	152	0			0.002 - 0.010	0.1
Sweet Corn, Frozen	33	0			0.002 - 0.010	0.1
Sweet Potatoes	184	0			0.002 - 0.010	0.2
Tomatoes	740	0			0.006 ^	10
TOTAL	**10,379**	**570**				
Carbendazim - MBC (fungicide) (metabolite of Benomyl)						
Blueberries	515	70	13.6	0.0005 - 1.5	0.0003 - 0.001	7.0
Blueberries, Frozen	13	0			0.0003 - 0.001	7.0
Broccoli	554	2	0.4	0.0005 ^	0.0003 ^	0.2
Celery	526	2	0.4	0.0005 - 0.001	0.0003 - 0.001	3.0
Grape Juice	443	0			0.015 ^	10.0
Green Beans	526	83	15.8	0.010 - 0.70	0.010 ^	2.0
Green Onions	186	1	0.5	0.046 ^	0.001 ^	3.0
Greens, Collard	160	0			0.010 ^	0.2
Greens, Kale	236	0			0.010 ^	0.2
Spinach	528	3	0.6	0.013 - 0.062	0.010 ^	0.2
Strawberries	417	98	23.5	0.016 - 0.34	0.015 ^	5.0
Sweet Potatoes	130	0			0.010 ^	0.2
TOTAL	**4,234**	**259**				
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)						
Apple Juice	108	0			0.002 ^	NT
Asparagus (V-1)	372	1	0.3	0.075 ^	0.002 - 0.010	NT
Blueberries	726	0			0.0003 - 0.002	NT
Blueberries, Frozen	18	0			0.0003 - 0.002	NT
Broccoli	554	0			0.0003 ^	NT
Celery	741	0			0.0003 - 0.002	NT
Grape Juice	745	0			0.002 - 0.006	0.4
Green Beans (V-1)	741	1	0.1	0.021 ^	0.002 - 0.010	NT
Green Onions (V-1)	186	1	0.5	0.014 ^	0.001 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.003	NT
Peaches	377	0			0.002 - 0.003	NT
Potatoes	744	1	0.1	0.002 ^	0.001 - 0.003	2
Spinach	744	0			0.002 - 0.010	NT
Strawberries	741	0			0.002 - 0.006	0.5
Summer Squash	554	0			0.002 - 0.006	0.6

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
Sweet Corn, Fresh	152	0			0.002 - 0.010	1.0
Sweet Corn, Frozen	33	0			0.002 - 0.010	1.0
Sweet Potatoes	184	0			0.002 - 0.010	NT
TOTAL	**8,302**	**4**				
Carbophenothion (insecticide)						
Asparagus	108	0			0.005 ^	NT
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.008 ^	NT
Celery	526	0			0.002 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Potatoes	108	0			0.005 ^	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**2,280**	**0**				
Carbophenothion methyl (insecticide)						
Kidney Beans, Canned	54	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**162**	**0**				
Carboxin (fungicide)						
Kidney Beans, Canned	54	0			0.008 ^	0.2
Sweet Corn, Fresh	152	0			0.008 - 0.080	0.2
Sweet Corn, Frozen	33	0			0.008 - 0.080	0.2
Sweet Potatoes	54	0			0.008 - 0.009	NT
TOTAL	**293**	**0**				
Carfentrazone (herbicide)						
Apple Juice	372	0			0.002 - 0.020	0.10
Asparagus	108	0			0.002 ^	0.10
Blueberries	726	0			0.001 - 0.004	0.10
Blueberries, Frozen	18	0			0.001 - 0.004	0.10
Broccoli	554	0			0.004 - 0.008	0.10
Celery	741	0			0.001 - 0.004	0.10
Grape Juice	722	0			0.002 ^	0.10
Green Beans	741	0			0.002 - 0.008	0.10
Green Onions	186	0			0.004 ^	0.10
Greens, Collard	240	0			0.002 - 0.008	0.10
Greens, Kale	318	0			0.002 - 0.008	0.10
Kidney Beans, Canned	186	0			0.002 - 0.005	0.10
Nectarines	672	0			0.034 ^	0.10
Peaches	377	0			0.002 - 0.005	0.10
Potatoes	524	0			0.002 - 0.005	0.10
Spinach	726	0			0.002 - 0.008	0.10
Strawberries	741	0			0.002 ^	0.10
Summer Squash	554	0			0.002 - 0.020	0.10
Sweet Corn, Fresh	152	0			0.002 - 0.020	0.10
Sweet Corn, Frozen	33	0			0.002 - 0.020	0.10
Sweet Potatoes	184	0			0.002 - 0.008	0.10
Tomatoes	740	0			0.034 ^	0.10
TOTAL	**9,615**	**0**				
Chlorantraniliprole (insecticide)						
Celery	29	29	100	0.003 - 0.023	0.002 ^	13
Green Onions	186	0			0.002 ^	NT
TOTAL	**215**	**29**				

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
Chlordane cis (insecticide) (isomer of Chlordane)						
Apple Juice	372	0			0.002 ^	0.1 AL
Asparagus	350	0			0.002 - 0.060	0.1 AL
Blueberries	726	0			0.0007 - 0.002	0.1 AL
Blueberries, Frozen	18	0			0.0007 - 0.002	0.1 AL
Broccoli	554	0			0.0007 ^	0.1 AL
Celery	741	0			0.0007 - 0.002	0.1 AL
Grape Juice	745	0			0.002 - 0.010	0.1 AL
Green Beans	215	0			0.002 ^	0.1 AL
Green Onions	186	0			0.001 ^	0.1 AL
Greens, Collard	80	0			0.002 ^	0.1 AL
Greens, Kale	82	1	1.2	0.003 ^	0.002 ^	0.1 AL
Kidney Beans, Canned	186	0			0.002 - 0.004	0.1 AL
Nectarines	672	0			0.003 ^	0.1 AL
Peaches	616	0			0.002 ^	0.1 AL
Potatoes	744	1	0.1	0.003 ^	0.002 - 0.004	0.1 AL
Spinach	216	0			0.002 ^	0.1 AL
Strawberries	741	0			0.002 - 0.010	0.1 AL
Summer Squash	554	15	2.7	0.003 - 0.022	0.002 ^	0.1 AL
Sweet Corn, Fresh	152	0			0.002 - 0.060	0.1 AL
Sweet Corn, Frozen	33	0			0.002 - 0.060	0.1 AL
Sweet Potatoes	162	0			0.002 - 0.005	0.1 AL
Tomatoes	740	0			0.003 ^	0.1 AL
TOTAL	**8,885**	**17**				
Chlordane trans (insecticide) (isomer of Chlordane)						
Apple Juice	372	0			0.002 ^	0.1 AL
Asparagus	350	0			0.002 - 0.060	0.1 AL
Blueberries	726	0			0.0007 - 0.002	0.1 AL
Blueberries, Frozen	18	0			0.0007 - 0.002	0.1 AL
Broccoli	554	0			0.0007 ^	0.1 AL
Celery	741	2	0.3	0.003 ^	0.0007 - 0.002	0.1 AL
Grape Juice	745	0			0.002 - 0.010	0.1 AL
Green Beans	215	0			0.002 ^	0.1 AL
Green Onions	186	0			0.001 ^	0.1 AL
Greens, Collard	80	0			0.002 ^	0.1 AL
Greens, Kale	82	0			0.002 ^	0.1 AL
Kidney Beans, Canned	186	0			0.002 - 0.004	0.1 AL
Nectarines	672	0			0.003 ^	0.1 AL
Peaches	616	0			0.002 ^	0.1 AL
Potatoes	744	0			0.002 - 0.004	0.1 AL
Spinach	216	0			0.002 ^	0.1 AL
Strawberries	741	0			0.002 - 0.010	0.1 AL
Summer Squash	554	10	1.8	0.003 - 0.020	0.002 ^	0.1 AL
Sweet Corn, Fresh	152	0			0.002 - 0.060	0.1 AL
Sweet Corn, Frozen	33	0			0.002 - 0.060	0.1 AL
Sweet Potatoes	184	0			0.002 - 0.005	0.1 AL
Tomatoes	740	0			0.003 ^	0.1 AL
TOTAL	**8,907**	**12**				
Chlorethoxyfos (insecticide)						
Asparagus	108	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	108	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.040	0.01
Sweet Corn, Frozen	33	0			0.002 - 0.040	0.01
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**617**	**0**				
Chlorfenapyr (insecticide)						
Asparagus	264	0			0.050 ^	0.01
Green Onions	186	0			0.002 ^	0.01

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
Kidney Beans, Canned	132	0			0.006 ^	0.01
Potatoes	220	0			0.006 ^	0.01
Sweet Corn, Fresh	105	0			0.050 ^	0.01
Sweet Corn, Frozen	26	0			0.050 ^	0.01
Tomatoes	740	0			0.027 ^	1.0
TOTAL	**1,673**	**0**				
Chlorfenvinphos (insecticide)						
Asparagus	108	0			0.005 ^	NT
Blueberries	515	0			0.004 ^	NT
Blueberries, Frozen	13	0			0.004 ^	NT
Broccoli	554	0			0.004 ^	NT
Celery	526	0			0.004 ^	NT
Green Onions	186	0			0.004 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Potatoes	108	0			0.005 ^	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**2,280**	**0**				
Chlorothalonil (fungicide)						
Apple Juice	108	0			0.008 ^	NT
Asparagus	372	0			0.008 - 0.18	0.1
Blueberries	211	5	2.4	0.013 ^	0.008 ^	1.0
Blueberries, Frozen	5	1	20	0.013 ^	0.008 ^	1.0
Celery	215	64	29.8	0.013 - 0.90	0.008 ^	15
Grape Juice	214	0			0.008 ^	NT
Green Beans	721	80	11.1	0.009 - 2.6	0.008 - 0.15	5
Greens, Collard (V-3)	3	3	100	0.037 - 0.55	0.008 ^	NT
Greens, Kale (V-1)	1	1	100	0.027 ^	0.008 ^	NT
Kidney Beans, Canned	120	0			0.008 - 0.019	5
Nectarines	672	0			0.011 ^	0.5
Peaches	616	1	0.2	0.013 ^	0.008 ^	0.5
Potatoes	744	0			0.008 - 0.019	0.1
Spinach (V-5)	700	5	0.7	0.019 - 0.24	0.008 - 0.038	NT
Strawberries	215	0			0.008 ^	NT
Summer Squash	554	27	4.9	0.013 - 0.21	0.008 - 0.010	5
Sweet Corn, Fresh	47	0			0.008 ^	1
Sweet Corn, Frozen	7	0			0.008 ^	1
Sweet Potatoes	184	0			0.003 - 0.008	NT
Tomatoes	740	93	12.6	0.007 - 0.33	0.004 ^	5
TOTAL	**6,449**	**280**				
Chlorpropham (herbicide, growth regulator)						
Apple Juice	108	0			0.010 ^	NT
Asparagus	108	0			0.010 ^	NT
Blueberries	726	0			0.006 - 0.010	NT
Blueberries, Frozen	18	0			0.006 - 0.010	NT
Broccoli (V-2)	292	2	0.7	0.010 - 0.030	0.006 - 0.020	NT
Celery (V-1)	741	1	0.1	0.010 ^	0.006 - 0.010	NT
Grape Juice	214	0			0.010 ^	NT
Green Beans	741	0			0.010 - 0.038	NT
Green Onions	186	0			0.006 ^	NT
Greens, Collard	160	0			0.038 ^	NT
Greens, Kale (V-3)	238	3	1.3	0.017 - 0.25	0.010 - 0.038	NT
Kidney Beans, Canned	186	0			0.010 ^	NT
Peaches (V-1)	180	1	0.6	0.017 ^	0.010 ^	NT
Potatoes	744	563	75.7	0.017 - 11	0.010 ^	30
Spinach	744	0			0.010 - 0.038	NT
Strawberries	215	0			0.010 - 0.030	NT
Summer Squash	158	0			0.010 ^	NT

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
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes (V-1)	184	1	0.5	0.017 ^	0.010 - 0.038	NT
TOTAL	**5,997**	**571**				
Chlorpyrifos (insecticide)						
Apple Juice	372	0			0.002 - 0.008	1.5
Asparagus	372	11	3	0.003 - 0.48	0.002 - 0.020	5.0
Blueberries	726	12	1.7	0.002 - 0.038	0.001 - 0.002	2
Blueberries, Frozen	18	1	5.6	0.002 ^	0.001 - 0.002	2
Broccoli	554	45	8.1	0.002 - 0.038	0.001 ^	1
Celery	741	24	3.2	0.002 - 0.012	0.001 - 0.002	0.1
Grape Juice	745	0			0.002 - 0.005	0.5
Green Beans	741	6	0.8	0.003 - 0.051	0.002 - 0.004	0.1
Green Onions	186	2	1.1	0.002 - 0.14	0.001 ^	0.5
Greens, Collard	240	8	3.3	0.006 - 0.24	0.004 ^	2.0
Greens, Kale	318	5	1.6	0.006 - 1.1	0.004 ^	2.0
Kidney Beans, Canned	164	0			0.002 - 0.025	0.1
Nectarines	672	67	10	0.008 - 0.039	0.005 ^	0.1
Peaches	616	106	17.2	0.003 - 0.11	0.002 - 0.025	0.1
Potatoes	744	0			0.002 - 0.025	0.1
Spinach (X-1)	744	24	3.2	0.003 - 0.72	0.002 - 0.004	0.1
Strawberries	741	7	0.9	0.003 - 0.014	0.002 - 0.005	0.2
Summer Squash	554	3	0.5	0.003 - 0.017	0.002 - 0.004	0.1
Sweet Corn, Fresh	152	0			0.002 - 0.020	0.05
Sweet Corn, Frozen	33	0			0.002 - 0.020	0.05
Sweet Potatoes	162	3	1.9	0.003 ^	0.002 - 0.003	0.05
Tomatoes	740	10	1.4	0.008 - 0.052	0.005 ^	0.5
TOTAL	**10,335**	**334**				
Chlorpyrifos oxygen analog (metabolite of Chlorpyrifos)						
Apple Juice	108	0			0.002 ^	1.5
Asparagus	354	0			0.003 - 0.010	5.0
Blueberries	211	0			0.002 - 0.003	2
Blueberries, Frozen	5	0			0.002 ^	2
Celery	197	0			0.002 - 0.003	0.1
Grape Juice	745	0			0.002 - 0.035	0.5
Green Beans	215	0			0.002 ^	0.1
Kidney Beans, Canned	186	0			0.003 - 0.070	0.1
Peaches	180	0			0.002 ^	0.1
Potatoes	370	0			0.002 - 0.070	0.1
Spinach	198	0			0.002 - 0.014	0.1
Strawberries	719	0			0.002 - 0.035	0.2
Summer Squash	158	0			0.002 ^	0.1
Sweet Corn, Fresh	152	0			0.002 - 0.010	0.05
Sweet Corn, Frozen	33	0			0.002 - 0.010	0.05
Sweet Potatoes	54	0			0.003 ^	0.05
TOTAL	**3,885**	**0**				
Clethodim (herbicide)						
Green Onions	186	0			0.002 ^	2.0
Tomatoes	740	0			0.031 ^	1.0
TOTAL	**926**	**0**				
Clofentezine (insecticide)						
Apple Juice	108	0			0.007 ^	0.5
Asparagus	108	0			0.007 ^	NT
Blueberries	211	0			0.007 ^	NT
Blueberries, Frozen	5	0			0.007 ^	NT
Grape Juice	214	0			0.007 ^	1.0
Kidney Beans, Canned	54	0			0.007 ^	NT
Peaches	180	5	2.8	0.012 - 0.10	0.007 ^	1.0
Potatoes	108	0			0.007 ^	NT

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
Spinach	108	0			0.007 ^	NT
Strawberries	215	0			0.007 - 0.048	NT
Sweet Corn, Fresh	47	0			0.007 ^	NT
Sweet Corn, Frozen	7	0			0.007 ^	NT
Sweet Potatoes	54	0			0.007 ^	NT
TOTAL	**1,419**	**5**				
Clomazone (herbicide)						
Apple Juice	108	0			0.008 ^	NT
Asparagus	108	0			0.008 ^	0.05
Blueberries	726	0			0.002 - 0.008	NT
Blueberries, Frozen	18	0			0.002 - 0.008	NT
Broccoli	554	0			0.002 ^	NT
Celery	741	0			0.002 - 0.008	NT
Grape Juice	214	0			0.008 ^	NT
Green Beans	741	0			0.008 - 0.015	0.05
Green Onions	186	0			0.008 ^	NT
Kidney Beans, Canned	186	0			0.005 - 0.008	0.05
Peaches	377	0			0.005 - 0.008	NT
Potatoes	416	0			0.005 - 0.008	NT
Spinach	744	0			0.008 - 0.015	NT
Strawberries	215	0			0.008 ^	NT
Summer Squash	554	0			0.008 - 0.020	0.1
Sweet Corn, Fresh	47	0			0.008 ^	NT
Sweet Corn, Frozen	7	0			0.008 ^	NT
Sweet Potatoes	184	0			0.008 - 0.015	0.05
TOTAL	**6,126**	**0**				
Clopyralid (herbicide)						
Nectarines	672	0			0.015 ^	0.5
Potatoes	744	0			0.020 ^	NT
Spinach	744	0			0.020 ^	5.0
Strawberries	417	0			0.40 ^	1.0
TOTAL	**2,577**	**0**				
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)						
Apple Juice	372	0			0.002 - 0.020	1.0
Asparagus	108	0			0.002 ^	NT
Blueberries	211	0			0.002 ^	0.20
Blueberries, Frozen	5	0			0.002 ^	0.20
Celery	215	0			0.002 ^	4.0
Grape Juice	745	0			0.002 - 0.031	0.60
Green Beans	741	0			0.002 - 0.010	0.02
Greens, Collard	160	0			0.010 ^	3.0
Greens, Kale	239	3	1.3	0.003 ^	0.002 - 0.010	3.0
Kidney Beans, Canned	186	0			0.002 - 0.010	0.02
Nectarines	672	0			0.009 ^	0.5
Peaches	616	3	0.5	0.005 - 0.034	0.002 - 0.010	0.5
Potatoes	722	38	5.3	0.003 - 0.027	0.002 - 0.010	0.25
Spinach	744	13	1.7	0.003 - 0.020	0.002 - 0.010	4.0
Strawberries	741	3	0.4	0.003 ^	0.002 - 0.031	0.3
Summer Squash	158	1	0.6	0.003 ^	0.002 ^	0.2
Sweet Corn, Fresh	152	0			0.002 - 0.020	0.02
Sweet Corn, Frozen	33	0			0.002 - 0.020	0.02
Sweet Potatoes	184	0			0.002 - 0.010	0.02
Tomatoes	740	4	0.5	0.015 ^	0.009 ^	0.25
TOTAL	**7,744**	**65**				
Coumaphos (insecticide)						
Asparagus	108	0			0.005 ^	NT
Blueberries	515	0			0.006 ^	NT
Blueberries, Frozen	13	0			0.006 ^	NT
Broccoli	554	0			0.006 ^	NT

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
Celery	526	0			0.006 ^	NT
Green Onions	186	0			0.006 ^	NT
Kidney Beans, Canned	186	0			0.005 - 0.010	NT
Peaches	197	0			0.010 ^	NT
Potatoes	416	0			0.005 - 0.010	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	184	0			0.005 - 0.015	NT
TOTAL	**3,047**	**0**				
Coumaphos oxygen analog (metabolite of Coumaphos)						
Blueberries	515	0			0.008 ^	NT
Blueberries, Frozen	13	0			0.008 ^	NT
Broccoli	554	0			0.008 ^	NT
Celery	526	0			0.008 ^	NT
Green Onions	186	0			0.008 ^	NT
Kidney Beans, Canned	132	0			0.002 ^	NT
Peaches	197	0			0.002 ^	NT
Potatoes	308	0			0.002 ^	NT
TOTAL	**2,431**	**0**				
Crotoxyphos (insecticide, acaricide)						
Asparagus	108	0			0.005 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Potatoes	108	0			0.005 ^	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**486**	**0**				
Crufomate (insecticide)						
Asparagus	108	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Potatoes	108	0			0.003 ^	NT
Spinach	108	0			0.003 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**486**	**0**				
Cyazofamid (fungicide)						
Grape Juice	531	0			0.010 ^	1.5
Strawberries	526	0			0.010 ^	NT
Tomatoes	740	1	0.1	0.022 ^	0.004 ^	0.20
TOTAL	**1,797**	**1**				
Cycloate (herbicide)						
Blueberries	487	0			0.0006 ^	NT
Blueberries, Frozen	11	0			0.0006 ^	NT
Broccoli	554	0			0.0006 ^	NT
Celery (V-7)	526	7	1.3	0.001 - 0.021	0.0006 ^	NT
TOTAL	**1,578**	**7**				
Cyfluthrin (insecticide)						
Apple Juice	372	0			0.009 - 0.050	0.5
Asparagus	372	0			0.030 - 0.050	0.05
Blueberries	726	0			0.009 - 0.14	0.05
Blueberries, Frozen	18	0			0.009 - 0.041	0.05
Broccoli	554	0			0.041 - 0.14	2.5
Celery	741	0			0.030 - 0.27	6.0
Grape Juice	745	0			0.009 - 0.050	1.0

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
Green Beans	741	0			0.030 - 0.38	0.05
Green Onions	186	0			0.041 - 0.27	0.05
Greens, Collard	240	13	5.4	0.098 - 0.88	0.030 - 0.075	7.0
Greens, Kale	293	5	1.7	0.085 - 0.30	0.030 - 0.38	7.0
Kidney Beans, Canned	186	0			0.001 - 0.030	0.05
Nectarines	672	1	0.1	0.11 ^	0.068 ^	0.3
Peaches	616	31	5	0.005 - 0.050	0.005 - 0.030	0.3
Potatoes	744	0			0.001 - 0.030	0.01
Spinach	700	40	5.7	0.030 - 1.8	0.018 - 0.075	6.0
Strawberries	741	0			0.009 - 0.050	0.05
Summer Squash	554	0			0.030 - 0.050	0.1
Sweet Corn, Fresh	152	0			0.030 - 0.25	0.05
Sweet Corn, Frozen	33	0			0.030 - 0.25	0.05
Sweet Potatoes	184	0			0.030 - 0.075	0.01
Tomatoes	740	0			0.052 ^	0.5
TOTAL	**10,310**	**90**				
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide) **						
Apple Juice	264	0			0.025 ^	0.30
Asparagus	264	0			0.025 ^	0.20
Blueberries (X-3)	515	5	1	0.010 - 0.040	0.006 ^	0.01
Blueberries, Frozen	13	0			0.006 ^	0.01
Broccoli	554	9	1.6	0.010 - 0.064	0.006 ^	0.4
Celery	526	0			0.006 ^	0.01
Grape Juice	531	0			0.010 ^	0.01
Green Beans	526	1	0.2	0.11 ^	0.050 ^	0.20
Green Onions	186	0			0.006 - 0.020	0.01
Greens, Collard (X-4)	160	4	2.5	0.060 - 0.17	0.050 ^	0.01
Greens, Kale (X-5)	236	5	2.1	0.085 - 0.33	0.050 ^	0.01
Kidney Beans, Canned	132	0			0.001 ^	0.20
Peaches	216	11	5.1	0.005 - 0.068	0.002 ^	0.50
Potatoes	308	0			0.001 - 0.002	0.02
Spinach (X-6)	528	6	1.1	0.090 - 0.25	0.050 ^	0.01
Strawberries	526	1	0.2	0.010 ^	0.010 ^	0.01
Summer Squash	396	0			0.025 ^	0.05
Sweet Corn, Fresh	105	0			0.025 ^	0.05
Sweet Corn, Frozen	26	0			0.025 ^	0.05
Sweet Potatoes	130	0			0.050 ^	0.02
TOTAL	**6,142**	**42**				
Cyhalothrin, Lambda (insecticide) (includes gamma isomer)						
Apple Juice	108	0			0.002 - 0.003	0.30
Asparagus	108	0			0.003 ^	0.20
Blueberries	211	2	0.9	0.003 - 0.006	0.002 - 0.003	0.01
Blueberries, Frozen	5	0			0.002 - 0.003	0.01
Celery	215	0			0.006 ^	0.01
Grape Juice	214	0			0.002 - 0.003	0.01
Green Beans	215	2	0.9	0.010 - 0.031	0.006 ^	0.20
Greens, Collard (X-1)	80	2	2.5	0.010 - 0.022	0.006 ^	0.01
Greens, Kale	82	1	1.2	0.010 ^	0.006 ^	0.01
Kidney Beans, Canned	54	0			0.006 ^	0.20
Nectarines	672	1	0.1	0.065 ^	0.039 ^	0.50
Peaches	400	91	22.8	0.005 - 0.032	0.003 - 0.006	0.50
Potatoes	436	0			0.002 - 0.003	0.02
Spinach (X-5)	216	7	3.2	0.006 - 0.21	0.002 - 0.006	0.01
Strawberries	215	0			0.002 - 0.003	0.01
Summer Squash	158	0			0.006 ^	0.05
Sweet Corn, Fresh	47	0			0.006 ^	0.05
Sweet Corn, Frozen	7	0			0.006 ^	0.05
Sweet Potatoes	54	0			0.006 ^	0.02
Tomatoes	740	0			0.032 ^	0.20
TOTAL	**4,237**	**106**				

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
Cyhalothrin, epimer R157836 (insecticide)						
Apple Juice	108	0			0.002 - 0.003	0.30
Asparagus	108	0			0.003 ^	0.20
Blueberries	211	1	0.5	0.003 ^	0.002 - 0.003	0.01
Blueberries, Frozen	5	0			0.002 - 0.003	0.01
Celery	215	0			0.006 ^	0.01
Grape Juice	214	0			0.002 - 0.003	0.01
Green Beans	215	0			0.006 ^	0.20
Greens, Collard	80	0			0.006 ^	0.01
Greens, Kale	82	0			0.006 ^	0.01
Kidney Beans, Canned	54	0			0.006 ^	0.20
Nectarines	672	1	0.1	0.062 ^	0.037 ^	0.50
Peaches	400	0			0.003 - 0.006	0.50
Potatoes	436	0			0.002 - 0.003	0.02
Spinach (X-1)	216	4	1.9	0.006 - 0.072	0.002 - 0.006	0.01
Strawberries	215	0			0.002 - 0.003	0.01
Summer Squash	158	0			0.006 ^	0.05
Sweet Corn, Fresh	47	0			0.006 ^	0.05
Sweet Corn, Frozen	7	0			0.006 ^	0.05
Sweet Potatoes	54	0			0.006 ^	0.02
Tomatoes	740	0			0.051 ^	0.20
TOTAL	**4,237**	**6**				
Cymoxanil (fungicide)						
Grape Juice	531	0			0.015 ^	0.10
Strawberries	526	0			0.015 ^	NT
Tomatoes	740	0			0.015 ^	0.2
TOTAL	**1,797**	**0**				
Cypermethrin (insecticide)						
Apple Juice	372	0			0.009 - 0.066	2
Asparagus	372	1	0.3	0.18 ^	0.030 - 0.066	0.5
Blueberries	726	14	1.9	0.050 - 0.25	0.009 - 0.051	0.8
Blueberries, Frozen	18	0			0.009 - 0.051	0.8
Broccoli	554	0			0.051 - 0.17	2.0
Celery	741	8	1.1	0.050 - 0.30	0.030 - 0.34	10.00
Grape Juice	745	0			0.009 - 0.050	2
Green Beans	741	4	0.5	0.050 ^	0.030 - 0.075	0.5
Green Onions	186	7	3.8	0.20 - 0.55	0.17 ^	6.0
Greens, Collard	240	40	16.7	0.080 - 3.2	0.030 - 0.075	14
Greens, Kale	318	49	15.4	0.050 - 3.3	0.030 - 0.075	14
Kidney Beans, Canned	186	0			0.001 - 0.030	0.5
Nectarines	672	0			0.066 ^	1
Peaches	616	5	0.8	0.005 - 0.050	0.005 - 0.030	1
Potatoes	744	0			0.001 - 0.030	0.1
Spinach	743	108	14.5	0.030 - 8.2	0.018 - 0.075	10.00
Strawberries	741	0			0.009 - 0.050	0.8
Summer Squash	554	0			0.030 - 0.066	0.2
Sweet Corn, Fresh	152	0			0.030 - 0.066	0.05
Sweet Corn, Frozen	33	0			0.030 - 0.066	0.05
Sweet Potatoes	184	0			0.030 - 0.075	0.1
Tomatoes	740	3	0.4	0.093 ^	0.056 ^	0.2
TOTAL	**10,378**	**239**				
Cyphenothrin (insecticide)						
Apple Juice	108	0			0.003 - 0.006	NT
Asparagus	372	0			0.006 - 0.040	NT
Blueberries	211	0			0.003 - 0.006	NT
Blueberries, Frozen	5	0			0.003 - 0.006	NT
Grape Juice	745	0			0.003 - 0.010	NT
Kidney Beans, Canned	186	0			0.005 - 0.015	NT
Peaches	216	0			0.020 ^	NT
Potatoes	523	0			0.003 - 0.020	NT

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
Spinach	216	0			0.003 - 0.006	NT
Strawberries	741	0			0.003 - 0.010	NT
Sweet Corn, Fresh	152	0			0.015 - 0.040	NT
Sweet Corn, Frozen	33	0			0.015 - 0.040	NT
Sweet Potatoes	54	0			0.015 ^	NT
TOTAL	**3,562**	**0**				
Cyprodinil (fungicide)						
Apple Juice	372	0			0.008 - 0.050	0.1
Asparagus	108	0			0.008 ^	0.6
Blueberries	211	42	19.9	0.013 - 0.50	0.008 ^	3.0
Blueberries, Frozen	5	2	40	0.14 - 0.19	0.008 ^	3.0
Celery	215	1	0.5	0.036 ^	0.008 ^	30
Grape Juice	745	0			0.008 - 0.020	2.0
Green Beans	741	6	0.8	0.009 - 0.039	0.008 ^	0.6
Greens, Collard	240	0			0.008 ^	10
Greens, Kale	318	0			0.008 ^	10
Kidney Beans, Canned	54	0			0.008 ^	0.6
Nectarines	672	11	1.6	0.013 - 0.20	0.008 ^	2.0
Peaches	180	1	0.6	0.013 ^	0.008 ^	2.0
Potatoes	216	0			0.008 ^	NT
Spinach	744	0			0.008 ^	NT
Strawberries	719	174	24.2	0.013 - 1.4	0.008 - 0.020	5.0
Summer Squash	158	0			0.008 ^	NT
Sweet Corn, Fresh	47	0			0.008 ^	NT
Sweet Corn, Frozen	7	0			0.008 ^	NT
Sweet Potatoes	54	0			0.008 ^	NT
TOTAL	**5,806**	**237**				
Cyromazine (insect growth regulator)						
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	1.0
Celery	526	192	36.5	0.004 - 0.078	0.002 ^	7.0
Green Onions	186	33	17.7	0.008 - 0.079	0.008 ^	3.0
TOTAL	**1,794**	**225**				
DCPA (herbicide)						
Apple Juice	108	0			0.003 ^	NT
Asparagus	108	0			0.003 ^	2.0
Blueberries	726	0			0.0007 - 0.003	NT
Blueberries, Frozen	18	0			0.0007 - 0.003	NT
Broccoli	554	201	36.3	0.001 - 0.038	0.0007 - 0.002	5.0
Celery (V-67)	741	67	9	0.001 - 0.006	0.0007 - 0.003	NT
Grape Juice	745	0			0.003 - 0.004	NT
Green Beans	741	5	0.7	0.005 - 0.066	0.003 - 0.008	2.0
Green Onions	186	94	50.5	0.002 - 0.19	0.001 ^	1.0
Greens, Collard	80	39	48.8	0.005 - 0.65	0.003 ^	5.0
Greens, Kale	82	44	53.7	0.005 - 0.27	0.003 ^	5.0
Kidney Beans, Canned	186	0			0.001 - 0.003	2.0
Peaches	396	0			0.001 - 0.003	NT
Potatoes	744	3	0.4	0.024 - 0.025	0.001 - 0.003	2.0
Spinach (V-4)	744	4	0.5	0.005 - 0.012	0.003 - 0.008	NT
Strawberries	741	0			0.003 - 0.004	2.0
Summer Squash	554	0			0.003 - 0.030	1.0
Sweet Corn, Fresh	152	0			0.003 - 0.020	0.05
Sweet Corn, Frozen	33	0			0.003 - 0.020	0.05
Sweet Potatoes	184	0			0.003 - 0.008	2.0
Tomatoes	740	0			0.006 ^	1.0
TOTAL	**8,563**	**457**				
DDD o,p' (metabolite of DDT)						
Blueberries	515	0			0.001 ^	0.1 AL
Blueberries, Frozen	13	0			0.001 ^	0.1 AL

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
Broccoli	554	0			0.001 ^	0.5 AL
Celery	526	0			0.001 ^	0.5 AL
Green Onions	186	0			0.001 ^	0.2 AL
TOTAL	**1,794**	**0**				
DDD p,p' (metabolite of DDT)						
Apple Juice	372	0			0.004 - 0.030	0.1 AL
Asparagus	350	0			0.004 - 0.030	0.5 AL
Blueberries	726	0			0.001 - 0.004	0.1 AL
Blueberries, Frozen	18	0			0.001 - 0.004	0.1 AL
Broccoli	554	0			0.001 ^	0.5 AL
Celery	741	0			0.001 - 0.004	0.5 AL
Grape Juice	745	0			0.004 - 0.007	0.05 AL
Green Beans	215	0			0.004 ^	0.2 AL
Green Onions	186	0			0.001 ^	0.2 AL
Greens, Collard	80	0			0.004 ^	0.5 AL
Greens, Kale	82	0			0.004 ^	0.5 AL
Kidney Beans, Canned	186	0			0.004 - 0.007	0.2 AL
Nectarines	672	0			0.007 ^	0.2 AL
Peaches	616	0			0.004 ^	0.2 AL
Potatoes	744	0			0.004 - 0.007	1 AL
Spinach	216	0			0.004 ^	0.5 AL
Strawberries	741	0			0.004 - 0.007	0.1 AL
Summer Squash	554	0			0.004 - 0.030	0.1 AL
Sweet Corn, Fresh	152	0			0.004 - 0.030	0.1 AL
Sweet Corn, Frozen	33	0			0.004 - 0.030	0.1 AL
Sweet Potatoes	184	0			0.003 - 0.004	1 AL
Tomatoes	740	0			0.005 ^	0.05 AL
TOTAL	**8,907**	**0**				
DDE p,p' (metabolite of DDT)						
Apple Juice	372	0			0.004 - 0.015	0.1 AL
Asparagus	350	0			0.004 - 0.015	0.5 AL
Blueberries	726	0			0.002 - 0.004	0.1 AL
Blueberries, Frozen	18	0			0.002 - 0.004	0.1 AL
Broccoli	554	3	0.5	0.003 ^	0.002 ^	0.5 AL
Celery	741	103	13.9	0.003 - 0.010	0.002 - 0.004	0.5 AL
Grape Juice	745	0			0.004 - 0.007	0.05 AL
Green Beans	215	4	1.9	0.007 ^	0.004 ^	0.2 AL
Green Onions	186	7	3.8	0.003 ^	0.002 ^	0.2 AL
Greens, Collard	80	23	28.7	0.007 - 0.018	0.004 ^	0.5 AL
Greens, Kale	82	23	28	0.007 - 0.039	0.004 ^	0.5 AL
Kidney Beans, Canned	186	0			0.004 - 0.010	0.2 AL
Nectarines	672	0			0.006 ^	0.2 AL
Peaches	616	0			0.004 ^	0.2 AL
Potatoes	744	17	2.3	0.007 ^	0.004 - 0.010	1 AL
Spinach	216	75	34.7	0.007 - 0.040	0.004 ^	0.5 AL
Strawberries	741	0			0.004 - 0.007	0.1 AL
Summer Squash	554	0			0.004 - 0.015	0.1 AL
Sweet Corn, Fresh	152	0			0.004 - 0.015	0.1 AL
Sweet Corn, Frozen	33	0			0.004 - 0.015	0.1 AL
Sweet Potatoes	54	2	3.7	0.007 ^	0.004 ^	1 AL
Tomatoes	740	0			0.005 ^	0.05 AL
TOTAL	**8,777**	**257**				
DDT o,p' (insecticide)						
Blueberries	515	0			0.001 ^	0.1 AL
Blueberries, Frozen	13	0			0.001 ^	0.1 AL
Broccoli	554	0			0.001 ^	0.5 AL
Celery	526	1	0.2	0.002 ^	0.001 ^	0.5 AL
Green Onions	186	0			0.001 ^	0.2 AL
TOTAL	**1,794**	**1**				

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
DDT p,p' (insecticide)						
Apple Juice	108	0			0.004 ^	0.1 AL
Asparagus	108	0			0.004 ^	0.5 AL
Blueberries	726	0			0.002 - 0.004	0.1 AL
Blueberries, Frozen	18	0			0.002 - 0.004	0.1 AL
Broccoli	554	0			0.002 ^	0.5 AL
Celery	741	8	1.1	0.003 - 0.007	0.002 - 0.004	0.5 AL
Grape Juice	723	0			0.004 - 0.020	0.05 AL
Green Beans	215	0			0.004 ^	0.2 AL
Green Onions	186	0			0.002 - 0.006	0.2 AL
Greens, Collard	80	2	2.5	0.007 ^	0.004 ^	0.5 AL
Greens, Kale	82	3	3.7	0.007 ^	0.004 ^	0.5 AL
Kidney Beans, Canned	186	0			0.004 - 0.007	0.2 AL
Nectarines	672	0			0.010 ^	0.2 AL
Peaches	616	0			0.004 ^	0.2 AL
Potatoes	744	11	1.5	0.007 ^	0.004 - 0.007	1 AL
Spinach	216	11	5.1	0.007 - 0.014	0.004 ^	0.5 AL
Strawberries	741	0			0.004 - 0.020	0.1 AL
Summer Squash	158	2	1.3	0.007 ^	0.004 ^	0.1 AL
Sweet Corn, Fresh	47	0			0.004 ^	0.1 AL
Sweet Corn, Frozen	7	0			0.004 ^	0.1 AL
Sweet Potatoes	184	0			0.003 - 0.004	1 AL
Tomatoes	740	0			0.010 ^	0.05 AL
TOTAL	**7,852**	**37**				
DEF - Tribufos (herbicide, plant growth regulator)						
Kidney Beans, Canned	186	0			0.003 - 0.004	NT
Peaches	197	0			0.004 ^	NT
Potatoes	308	0			0.004 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**799**	**0**				
Deltamethrin (includes parent Tralomethrin) (insecticide)						
Apple Juice	372	0			0.015 - 0.050	0.2
Asparagus	372	0			0.015 - 0.050	0.05
Blueberries	712	0			0.015 - 0.53	0.05
Blueberries, Frozen	18	0			0.015 - 0.53	0.05
Celery	741	0			0.015 - 0.16	0.05
Grape Juice	745	0			0.015 - 0.060	0.05
Green Beans	720	0			0.015 - 0.075	0.05
Greens, Collard	240	0			0.015 - 0.075	0.05
Greens, Kale	318	0			0.015 - 0.075	0.05
Kidney Beans, Canned	186	0			0.005 - 0.015	0.05
Nectarines	672	0			0.042 ^	0.05
Peaches	616	0			0.008 - 0.020	0.05
Potatoes	744	0			0.005 - 0.020	0.04
Spinach	744	0			0.015 - 0.075	0.05
Strawberries	719	0			0.015 - 0.060	0.05
Summer Squash	554	0			0.015 - 0.050	0.2
Sweet Corn, Fresh	152	0			0.015 - 0.10	0.03
Sweet Corn, Frozen	33	0			0.015 - 0.10	0.03

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
Sweet Potatoes	184	0			0.015 - 0.075	0.04
Tomatoes	740	1	0.1	0.070 ^	0.042 ^	0.3
TOTAL	**9,582**	**1**				
Demeton-O (metabolite of the insecticide Demeton)						
Asparagus	108	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	108	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**486**	**0**				
Demeton-S (metabolite of Demeton)						
Asparagus	108	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	108	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**486**	**0**				
Desmedipham (herbicide)						
Kidney Beans, Canned	132	0			0.010 ^	NT
Peaches	197	0			0.010 ^	NT
Potatoes	308	0			0.010 ^	NT
TOTAL	**637**	**0**				
Diazinon (insecticide)						
Apple Juice	372	0			0.001 - 0.008	0.5
Asparagus	108	0			0.001 ^	0.50
Blueberries	726	0			0.001 - 0.002	0.5
Blueberries, Frozen	18	0			0.001 - 0.002	0.5
Broccoli	554	2	0.4	0.008 - 0.011	0.002 ^	0.7
Celery	741	6	0.8	0.002 - 0.003	0.001 - 0.002	0.7
Grape Juice	745	0			0.001 - 0.005	0.75
Green Beans	741	2	0.3	0.002 - 0.024	0.001 - 0.005	0.5
Green Onions	186	1	0.5	0.003 ^	0.002 ^	0.75
Greens, Collard	240	3	1.2	0.005 - 0.093	0.002 - 0.005	0.7
Greens, Kale	318	3	0.9	0.007 - 0.42	0.002 - 0.005	0.7
Kidney Beans, Canned	186	0			0.001 - 0.005	0.50
Nectarines	672	3	0.4	0.010 - 0.018	0.006 ^	0.5
Peaches	616	12	1.9	0.002 - 0.021	0.001 - 0.005	0.7
Potatoes	744	0			0.001 - 0.005	0.10
Spinach	744	4	0.5	0.002 - 0.008	0.001 - 0.015	0.7
Strawberries	741	1	0.1	0.010 ^	0.001 - 0.005	0.5
Summer Squash	554	0			0.001 - 0.004	0.5
Sweet Corn, Fresh	152	0			0.001 - 0.010	NT
Sweet Corn, Frozen	33	0			0.001 - 0.010	NT
Sweet Potatoes	184	0			0.001 - 0.002	0.10
Tomatoes	740	2	0.3	0.010 ^	0.006 ^	0.75
TOTAL	**10,115**	**39**				
Diazinon oxygen analog (metabolite of Diazinon)						
Apple Juice	372	0			0.002 - 0.008	0.5
Asparagus	108	0			0.002 ^	0.50
Blueberries	726	0			0.002 - 0.003	0.5
Blueberries, Frozen	18	0			0.002 - 0.003	0.5
Broccoli	554	0			0.003 ^	0.7
Celery	741	0			0.002 - 0.003	0.7
Grape Juice	745	0			0.0004 - 0.002	0.75

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
Green Beans	741	0			0.001 - 0.002	0.5
Green Onions	186	0			0.003 ^	0.75
Greens, Collard	240	2	0.8	0.005 ^	0.001 - 0.003	0.7
Greens, Kale	318	1	0.3	0.008 ^	0.001 - 0.003	0.7
Kidney Beans, Canned	186	0			0.002 - 0.005	0.50
Nectarines	672	0			0.013 ^	0.5
Peaches	616	0			0.002 - 0.005	0.7
Potatoes	744	0			0.002 - 0.005	0.10
Spinach	722	0			0.001 - 0.002	0.7
Strawberries	237	0			0.0004 - 0.002	0.5
Summer Squash	554	0			0.002 - 0.004	0.5
Sweet Corn, Fresh	152	0			0.002 ^	NT
Sweet Corn, Frozen	33	0			0.002 ^	NT
Sweet Potatoes	184	0			0.001 - 0.002	0.10
Tomatoes	740	0			0.013 ^	0.75
TOTAL	**9,589**	**3**				
Dicamba (herbicide)						
Potatoes	744	0			0.020 ^	NT
Spinach	744	0			0.020 ^	NT
Strawberries	439	0			0.098 ^	NT
TOTAL	**1,927**	**0**				
Dichlobenil (herbicide)						
Apple Juice	108	0			0.005 ^	0.5
Asparagus	108	0			0.005 ^	NT
Blueberries	696	0			0.005 - 0.019	0.15
Blueberries, Frozen	18	0			0.005 - 0.019	0.15
Broccoli	554	0			0.019 ^	NT
Celery	711	0			0.005 - 0.019	NT
Grape Juice	214	0			0.005 ^	0.15
Green Beans	566	0			0.005 - 0.013	NT
Green Onions	138	0			0.019 ^	NT
Greens, Collard	110	0			0.013 ^	NT
Greens, Kale	207	0			0.013 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Nectarines	672	0			0.015 ^	0.15
Peaches	616	0			0.005 ^	0.15
Potatoes	196	0			0.005 ^	NT
Spinach	590	0			0.005 - 0.013	NT
Strawberries	215	0			0.005 ^	NT
Summer Squash	158	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	162	0			0.005 - 0.013	NT
TOTAL	**6,147**	**0**				
Dichlorprop (herbicide)						
Grape Juice	290	0			0.025 ^	NT
Potatoes	744	0			0.010 ^	NT
Spinach	744	0			0.010 ^	NT
Strawberries	504	0			0.025 ^	NT
TOTAL	**2,282**	**0**				
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)						
Apple Juice	372	0			0.001 - 0.006	0.5
Asparagus	372	0			0.001 - 0.10	0.5
Blueberries	726	0			0.001 - 0.003	0.5
Blueberries, Frozen	18	0			0.001 - 0.003	0.5
Celery	741	0			0.001 - 0.003	3
Grape Juice	745	0			0.001 - 0.015	0.5
Green Beans	741	0			0.001 - 0.008	0.5
Greens, Collard	240	0			0.002 - 0.050	3

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
Greens, Kale	293	0			0.002 - 0.17	3
Kidney Beans, Canned	186	0			0.002 - 0.020	0.5
Nectarines	672	0			0.003 ^	0.5
Peaches	616	0			0.001 - 0.020	0.5
Potatoes	744	0			0.001 - 0.020	0.5
Spinach	744	0			0.001 - 0.008	3
Strawberries	741	33	4.5	0.002 - 0.58	0.001 - 0.015	1
Summer Squash	554	0			0.001 - 0.003	0.5
Sweet Corn, Fresh	152	0			0.002 - 0.10	0.5
Sweet Corn, Frozen	33	0			0.002 - 0.10	0.5
Sweet Potatoes	162	0			0.002 - 0.003	0.5
Tomatoes	740	0			0.003 ^	0.05
TOTAL	**9,592**	**33**				
Dicloran (fungicide)						
Apple Juice	108	0			0.006 ^	NT
Asparagus	108	0			0.006 ^	20
Blueberries	726	0			0.002 - 0.006	NT
Blueberries, Frozen	18	0			0.002 - 0.006	NT
Broccoli (V-2)	554	2	0.4	0.003 ^	0.002 ^	NT
Celery	741	274	37	0.010 - 1.5	0.006 - 0.013	15
Grape Juice	745	0			0.006 - 0.025	10
Green Beans	741	19	2.6	0.010 - 5.7	0.006 - 0.013	20
Green Onions	186	0			0.002 ^	10
Greens, Collard	160	0			0.013 ^	NT
Greens, Kale	236	0			0.013 ^	NT
Kidney Beans, Canned	186	0			0.006 - 0.015	NT
Nectarines	672	0			0.014 ^	20
Peaches	616	3	0.5	0.040 - 0.30	0.006 ^	20
Potatoes	744	0			0.006 - 0.015	0.25
Spinach (V-5)	722	5	0.7	0.010 - 0.13	0.006 - 0.013	NT
Strawberries (V-1)	697	1	0.1	0.010 ^	0.006 - 0.025	NT
Summer Squash	158	0			0.006 ^	NT
Sweet Corn, Fresh	47	0			0.006 ^	NT
Sweet Corn, Frozen	7	0			0.006 ^	NT
Sweet Potatoes	184	73	39.7	0.010 - 4.7	0.006 - 0.025	10
Tomatoes	740	10	1.4	0.008 - 0.10	0.005 ^	5
TOTAL	**9,096**	**387**				
Dicofol o,p' (isomer of insecticide Dicofol)						
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	539	0			0.003 ^	NT
Celery	526	0			0.003 - 0.010	NT
Grape Juice	531	0			0.026 ^	5.0
Green Onions	186	0			0.003 ^	NT
Strawberries	526	0			0.026 ^	10.0
TOTAL	**2,836**	**0**				
Dicofol p,p' (isomer of Dicofol)						
Apple Juice	372	0			0.010 - 0.030	10
Asparagus	108	0			0.010 ^	3.0
Blueberries	726	0			0.003 - 0.010	NT
Blueberries, Frozen	18	0			0.003 - 0.010	NT
Broccoli (V-1)	554	1	0.2	0.005 ^	0.003 ^	NT
Celery	741	0			0.003 - 0.010	NT
Grape Juice	745	0			0.010 - 0.030	5.0
Green Beans	215	1	0.5	0.017 ^	0.010 ^	3.0
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	164	0			0.010 - 0.029	3.0
Nectarines	672	1	0.1	0.12 ^	0.018 ^	5.0
Peaches	616	1	0.2	0.18 ^	0.010 ^	5.0
Potatoes	328	0			0.010 - 0.029	NT

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
Spinach	216	0			0.010 ^	NT
Strawberries	741	0			0.010 - 0.030	10.0
Summer Squash	554	0			0.010 - 0.030	2.0
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	54	0			0.010 ^	NT
Tomatoes	740	11	1.5	0.017 - 0.40	0.010 ^	2.0
TOTAL	**7,804**	**15**				
Dicrotophos (insecticide)						
Kidney Beans, Canned	132	0			0.005 ^	NT
Peaches	197	0			0.005 ^	NT
Potatoes	308	0			0.005 ^	NT
TOTAL	**637**	**0**				
Dieldrin (insecticide) (also a metabolite of Aldrin)						
Apple Juice	372	0			0.003 ^	0.03 AL
Asparagus	350	0			0.003 - 0.050	0.03 AL
Blueberries	726	0			0.003 - 0.005	0.05 AL
Blueberries, Frozen	18	0			0.003 - 0.005	0.05 AL
Broccoli	554	0			0.005 ^	0.03 AL
Celery	741	4	0.5	0.005 ^	0.003 - 0.005	0.03 AL
Grape Juice	745	0			0.003 - 0.020	0.05 AL
Green Beans	215	0			0.003 ^	0.05 AL
Green Onions	186	0			0.005 ^	0.1 AL
Greens, Collard	80	1	1.2	0.005 ^	0.003 ^	0.05 AL
Greens, Kale	82	8	9.8	0.005 ^	0.003 ^	0.05 AL
Kidney Beans, Canned	186	0			0.002 - 0.003	0.05 AL
Nectarines	672	0			0.005 ^	0.03 AL
Peaches	616	0			0.002 - 0.003	0.02 AL
Potatoes	744	13	1.7	0.002 - 0.007	0.002 - 0.003	0.1 AL
Spinach	216	0			0.003 ^	0.05 AL
Strawberries	741	0			0.003 - 0.020	0.05 AL
Summer Squash	554	71	12.8	0.005 - 0.17	0.003 ^	0.1 AL
Sweet Corn, Fresh	152	0			0.003 - 0.050	0.02 AL
Sweet Corn, Frozen	33	0			0.003 - 0.050	0.02 AL
Sweet Potatoes	54	2	3.7	0.005 ^	0.003 ^	0.1 AL
Tomatoes	740	0			0.004 ^	0.05 AL
TOTAL	**8,777**	**99**				
Difenoconazole (fungicide)						
Apple Juice	372	0			0.002 - 0.10	1.0
Asparagus	108	0			0.002 ^	NT
Blueberries	211	0			0.002 ^	NT
Blueberries, Frozen	5	0			0.002 ^	NT
Celery	215	0			0.002 ^	NT
Grape Juice	745	0			0.002 - 0.010	0.10
Green Beans	215	0			0.002 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Peaches	180	0			0.002 ^	NT
Potatoes	216	0			0.002 ^	0.01
Spinach	216	0			0.002 ^	NT
Strawberries	741	0			0.002 - 0.010	NT
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.10	0.01
Sweet Corn, Frozen	33	0			0.002 - 0.10	0.01
Sweet Potatoes	184	0			0.002 - 0.005	0.01
TOTAL	**3,991**	**0**				
Diflubenzuron (insecticide)						
Apple Juice	108	0			0.007 ^	NT
Asparagus	108	0			0.007 ^	NT

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
Blueberries	726	0			0.007 ^	NT
Blueberries, Frozen	18	0			0.007 ^	NT
Broccoli	554	0			0.007 ^	NT
Celery	526	0			0.007 ^	NT
Grape Juice	214	0			0.007 ^	NT
Green Onions	186	0			0.007 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.007	NT
Peaches	616	6	1	0.002 - 0.021	0.001 - 0.007	0.07
Potatoes	416	0			0.003 - 0.007	NT
Spinach	108	0			0.007 ^	NT
Strawberries	215	0			0.007 ^	NT
Sweet Corn, Fresh	47	0			0.007 ^	NT
Sweet Corn, Frozen	7	0			0.007 ^	NT
Sweet Potatoes	54	0			0.007 ^	NT
TOTAL	**4,089**	**6**				
Diflufenzopyr (herbicide)						
Sweet Corn, Fresh	105	0			0.008 ^	0.05
Sweet Corn, Frozen	26	0			0.008 ^	0.05
TOTAL	**131**	**0**				
Dimethenamid (herbicide)						
Green Onions	186	0			0.003 ^	0.01
Kidney Beans, Canned	132	0			0.003 ^	0.01
Peaches	197	0			0.003 ^	NT
Potatoes	528	0			0.001 - 0.003	0.01
Sweet Corn, Fresh	105	0			0.020 ^	0.01
Sweet Corn, Frozen	26	0			0.020 ^	0.01
TOTAL	**1,174**	**0**				
Dimethoate (insecticide) (parent of Omethoate)						
Apple Juice	372	0			0.001 - 0.010	2
Asparagus	372	0			0.001 - 0.008	0.15
Blueberries	726	3	0.4	0.007 - 0.093	0.001 - 0.002	1
Blueberries, Frozen	18	0			0.001 - 0.002	1
Broccoli	554	12	2.2	0.004 - 0.064	0.002 - 0.008	2
Celery	741	69	9.3	0.002 - 0.40	0.001 - 0.002	2
Grape Juice	745	0			0.001 - 0.005	NT
Green Beans	741	36	4.9	0.002 - 0.38	0.001 - 0.005	2
Greens, Collard	240	1	0.4	0.008 ^	0.002 - 0.005	2
Greens, Kale	318	6	1.9	0.005 - 0.15	0.002 - 0.005	2
Kidney Beans, Canned	186	0			0.001 - 0.005	2
Peaches (V-1)	377	1	0.3	0.002 ^	0.001 - 0.005	NT
Potatoes	744	0			0.001 - 0.005	0.2
Spinach	744	10	1.3	0.008 - 0.66	0.001 - 0.005	2
Strawberries (V-1)	741	1	0.1	0.002 ^	0.001 - 0.005	NT
Summer Squash (V-1)	158	1	0.6	0.038 ^	0.001 ^	NT
Sweet Corn, Fresh (V-1)	47	1	2.1	0.002 ^	0.001 ^	NT
Sweet Corn, Frozen	7	0			0.001 ^	NT
Sweet Potatoes	184	0			0.001 - 0.010	NT
Tomatoes	740	0			0.006 ^	2
TOTAL	**8,755**	**141**				
Dimethomorph (fungicide)						
Apple Juice	372	0			0.002 - 0.10	NT
Asparagus	108	0			0.002 ^	NT
Blueberries	726	0			0.0009 - 0.002	NT
Blueberries, Frozen	18	0			0.0009 - 0.002	NT
Broccoli	554	10	1.8	0.002 - 0.025	0.0009 ^	2.0
Celery (V-9)	741	9	1.2	0.002 - 0.003	0.0009 - 0.002	NT
Grape Juice	214	0			0.002 ^	3.5
Green Beans	215	0			0.002 ^	NT
Green Onions	186	6	3.2	0.002 - 1.8	0.001 ^	2.0

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
Greens, Collard	80	0			0.002 ^	20
Greens, Kale	82	1	1.2	0.007 ^	0.002 ^	20
Kidney Beans, Canned	186	0			0.002 - 0.003	NT
Peaches	377	0			0.002 - 0.003	NT
Potatoes	744	0			0.001 - 0.003	0.05
Spinach (V-5)	216	5	2.3	0.003 - 0.53	0.002 ^	NT
Strawberries	215	0			0.002 ^	NT
Summer Squash	554	0			0.002 - 0.10	0.5
Sweet Corn, Fresh	47	0			0.002 ^	0.05
Sweet Corn, Frozen	7	0			0.002 ^	0.05
Sweet Potatoes	184	0			0.002 - 0.010	NT
Tomatoes	740	0			0.095 ^	1.5
TOTAL	**6,566**	**31**				
Dinotefuran (insecticide)						
Apple Juice	108	0			0.005 ^	NT
Asparagus	108	0			0.005 ^	NT
Blueberries	726	0			0.005 - 0.006	NT
Blueberries, Frozen	18	0			0.005 - 0.006	NT
Broccoli	554	5	0.9	0.010 ^	0.006 ^	1.4
Celery	741	36	4.9	0.008 - 0.087	0.005 - 0.006	5.0
Grape Juice	745	4	0.5	0.008 - 0.021	0.005 - 0.030	0.9
Green Beans (V-9)	741	9	1.2	0.013 - 0.22	0.005 - 0.010	NT
Green Onions	186	0			0.020 ^	NT
Greens, Collard (V-5)	240	5	2.1	0.032 - 0.56	0.005 - 0.010	NT
Greens, Kale (V-2)	318	2	0.6	0.011 - 0.038	0.005 - 0.010	NT
Kidney Beans, Canned	186	0			0.003 - 0.005	NT
Peaches	377	0			0.003 - 0.005	NT
Potatoes	744	0			0.001 - 0.005	0.05
Spinach	744	4	0.5	0.008 - 0.076	0.005 - 0.010	5.0
Strawberries	741	0			0.005 - 0.030	NT
Summer Squash	158	3	1.9	0.022 - 0.067	0.005 ^	0.5
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**7,543**	**68**				
Diphenamid (herbicide)						
Blueberries	485	0			0.010 ^	NT
Blueberries, Frozen	13	0			0.010 ^	NT
Broccoli	463	0			0.010 ^	NT
Celery	482	0			0.010 ^	NT
Green Onions	186	0			0.032 ^	NT
Sweet Potatoes	130	0			0.050 ^	NT
TOTAL	**1,759**	**0**				
Diphenylamine - DPA (fungicide)						
Apple Juice	372	9	2.4	0.017 - 0.032	0.010 - 0.030	10
Asparagus	108	0			0.010 ^	NT
Blueberries	726	0			0.003 - 0.010	NT
Blueberries, Frozen	18	0			0.003 - 0.010	NT
Broccoli	554	0			0.003 ^	NT
Celery	712	0			0.003 - 0.010	NT
Grape Juice	214	0			0.010 ^	NT
Green Beans	741	0			0.010 - 0.015	NT
Green Onions	186	0			0.003 ^	NT
Greens, Collard	160	0			0.015 ^	NT
Greens, Kale	236	0			0.015 ^	NT
Kidney Beans, Canned	186	0			0.010 ^	NT
Peaches	180	0			0.010 ^	NT
Potatoes	436	0			0.010 ^	NT
Spinach	744	0			0.010 - 0.015	NT
Strawberries	215	0			0.010 ^	NT

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
Summer Squash	158	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	54	0			0.010 ^	NT
TOTAL	**6,054**	**9**				
Disulfoton (insecticide)						
Asparagus	372	0			0.002 - 0.20	0.1
Blueberries	621	0			0.002 ^	NT
Blueberries, Frozen	15	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	0.75
Celery	741	0			0.002 ^	NT
Grape Juice	108	0			0.002 ^	NT
Green Beans	741	0			0.002 - 0.004	0.75
Kidney Beans, Canned	142	0			0.002 - 0.030	0.75
Peaches	197	0			0.031 ^	NT
Potatoes	700	0			0.002 - 0.031	0.75
Spinach	743	0			0.002 - 0.004	0.75
Strawberries	107	0			0.002 ^	NT
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
Tomatoes	740	0			0.005 ^	0.75
TOTAL	**6,047**	**0**				
Disulfoton sulfone (metabolite of Disulfoton)						
Asparagus	372	0			0.002 - 0.010	0.1
Blueberries	621	0			0.002 - 0.006	NT
Blueberries, Frozen	15	0			0.002 - 0.006	NT
Broccoli	554	0			0.006 ^	0.75
Celery	741	0			0.002 - 0.006	NT
Grape Juice	108	0			0.002 ^	NT
Green Beans	741	0			0.002 - 0.004	0.75
Green Onions	186	0			0.006 ^	NT
Kidney Beans, Canned	185	0			0.002 ^	0.75
Peaches	197	0			0.002 ^	NT
Potatoes	722	0			0.002 - 0.004	0.75
Spinach	744	0			0.002 - 0.004	0.75
Strawberries	107	0			0.002 ^	NT
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
Tomatoes	740	0			0.003 ^	0.75
TOTAL	**6,299**	**0**				
Disulfoton sulfoxide (metabolite of Disulfoton)						
Asparagus	264	0			0.010 ^	0.1
Kidney Beans, Canned	132	0			0.005 ^	0.75
Peaches	197	0			0.005 ^	NT
Potatoes	264	0			0.005 ^	0.75
Tomatoes	740	0			0.031 ^	0.75
TOTAL	**1,597**	**0**				
Diuron (herbicide)						
Apple Juice	372	0			0.012 - 0.020	1.0
Asparagus	372	1	0.3	0.020 ^	0.012 - 0.020	7
Blueberries	726	0			0.008 - 0.012	1
Blueberries, Frozen	18	0			0.008 - 0.012	1
Broccoli	554	0			0.008 ^	NT
Celery	741	0			0.008 - 0.012	NT
Grape Juice	214	0			0.012 ^	1

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
Green Beans	215	0			0.012 ^	NT
Green Onions	186	0			0.025 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.012	NT
Peaches	616	0			0.001 - 0.012	0.1
Potatoes	744	1	0.1	0.005 ^	0.001 - 0.012	1
Spinach	216	0			0.012 ^	NT
Strawberries	215	0			0.012 ^	NT
Summer Squash	158	0			0.012 ^	NT
Sweet Corn, Fresh	152	0			0.012 - 0.020	NT
Sweet Corn, Frozen	33	0			0.012 - 0.020	NT
Sweet Potatoes	54	0			0.012 ^	NT
TOTAL	**5,772**	**2**				
Emamectin benzoate (insecticide)						
Green Onions	186	0			0.001 ^	NT
TOTAL	**186**	**0**				
Endosulfan I (insecticide)						
Apple Juice	372	0			0.003 ^	1.0
Asparagus	350	0			0.003 - 0.050	2.0
Blueberries	726	0			0.003 - 0.006	0.3
Blueberries, Frozen	18	0			0.003 - 0.006	0.3
Broccoli	554	3	0.5	0.010 ^	0.006 ^	3.0
Celery	741	15	2	0.005 - 0.19	0.003 - 0.006	8.0
Grape Juice	745	0			0.003 - 0.021	2.0
Green Beans	741	80	10.8	0.005 - 0.28	0.003 - 0.015	2.0
Green Onions	186	0			0.006 ^	NT
Greens, Collard	80	2	2.5	0.005 - 0.013	0.003 ^	2.0
Greens, Kale	82	8	9.8	0.005 - 0.034	0.003 ^	2.0
Kidney Beans, Canned	186	0			0.001 - 0.003	2.0
Nectarines	672	0			0.005 ^	2.0
Peaches	616	7	1.1	0.001 - 0.028	0.001 - 0.003	2.0
Potatoes	744	0			0.001 - 0.003	0.2
Spinach	743	1	0.1	0.017 ^	0.003 - 0.015	2.0
Strawberries	741	5	0.7	0.021 - 0.092	0.003 - 0.021	2.0
Summer Squash	554	235	42.4	0.005 - 0.21	0.003 ^	1.0
Sweet Corn, Fresh	152	0			0.003 - 0.050	0.2
Sweet Corn, Frozen	33	0			0.003 - 0.050	0.2
Sweet Potatoes	184	0			0.003 ^	0.15
Tomatoes	740	71	9.6	0.007 - 0.12	0.004 ^	1.0
TOTAL	**9,960**	**427**				
Endosulfan II (isomer of Endosulfan)						
Apple Juice	372	0			0.003 - 0.004	1.0
Asparagus	350	0			0.004 - 0.050	2.0
Blueberries	726	3	0.4	0.007 - 0.010	0.004 - 0.006	0.3
Blueberries, Frozen	18	0			0.004 - 0.006	0.3
Broccoli	554	2	0.4	0.010 ^	0.006 ^	3.0
Celery	741	14	1.9	0.007 - 0.32	0.004 - 0.006	8.0
Grape Juice	745	0			0.004 - 0.020	2.0
Green Beans	741	61	8.2	0.007 - 0.28	0.004 - 0.015	2.0
Green Onions	186	0			0.006 ^	NT
Greens, Collard	80	1	1.2	0.007 ^	0.004 ^	2.0
Greens, Kale	82	7	8.5	0.007 - 0.021	0.004 ^	2.0
Kidney Beans, Canned	186	0			0.001 - 0.004	2.0
Nectarines	672	4	0.6	0.008 - 0.016	0.005 ^	2.0
Peaches	616	9	1.5	0.001 - 0.053	0.001 - 0.004	2.0
Potatoes	744	0			0.001 - 0.004	0.2
Spinach	744	2	0.3	0.033 - 0.065	0.004 - 0.015	2.0
Strawberries	741	7	0.9	0.021 - 0.097	0.004 - 0.020	2.0
Summer Squash	554	82	14.8	0.005 - 0.030	0.003 - 0.004	1.0
Sweet Corn, Fresh	152	0			0.004 - 0.050	0.2
Sweet Corn, Frozen	33	0			0.004 - 0.050	0.2

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
Sweet Potatoes	184	0			0.003 - 0.004	0.15
Tomatoes	740	124	16.8	0.007 - 0.065	0.004 ^	1.0
TOTAL	**9,961**	**316**				
Endosulfan sulfate (metabolite of Endosulfan)						
Apple Juice	372	0			0.003 - 0.004	1.0
Asparagus	350	0			0.004 - 0.050	2.0
Blueberries	726	3	0.4	0.007 - 0.033	0.004 - 0.020	0.3
Blueberries, Frozen	18	0			0.004 - 0.020	0.3
Broccoli	554	0			0.020 ^	3.0
Celery	741	11	1.5	0.007 - 0.20	0.004 - 0.020	8.0
Grape Juice	745	0			0.004 - 0.015	2.0
Green Beans	719	124	17.2	0.007 - 0.47	0.004 - 0.015	2.0
Green Onions	186	0			0.020 ^	NT
Greens, Collard	240	19	7.9	0.007 - 0.59	0.004 - 0.015	2.0
Greens, Kale	318	23	7.2	0.007 - 0.17	0.004 - 0.015	2.0
Kidney Beans, Canned	186	0			0.003 - 0.004	2.0
Nectarines	672	2	0.3	0.012 ^	0.007 ^	2.0
Peaches	616	9	1.5	0.007 - 0.090	0.004 ^	2.0
Potatoes	744	43	5.8	0.004 - 0.053	0.003 - 0.004	0.2
Spinach	744	23	3.1	0.007 - 0.54	0.004 - 0.015	2.0
Strawberries	741	11	1.5	0.015 - 0.039	0.004 - 0.015	2.0
Summer Squash	554	371	67	0.005 - 0.20	0.003 - 0.004	1.0
Sweet Corn, Fresh	152	0			0.004 - 0.050	0.2
Sweet Corn, Frozen	33	0			0.004 - 0.050	0.2
Sweet Potatoes	184	4	2.2	0.005 ^	0.003 - 0.004	0.15
Tomatoes	740	95	12.8	0.008 - 0.038	0.005 ^	1.0
TOTAL	**10,335**	**738**				
Endrin (insecticide)						
Apple Juice	108	0			0.004 ^	NT
Asparagus	108	0			0.004 ^	0.05 AL
Blueberries	726	0			0.004 - 0.007	NT
Blueberries, Frozen	18	0			0.004 - 0.007	NT
Broccoli	523	0			0.007 ^	0.05 AL
Celery	697	0			0.004 - 0.007	0.05 AL
Grape Juice	745	0			0.004 - 0.015	NT
Green Beans	215	0			0.004 ^	0.05 AL
Green Onions	186	0			0.007 ^	0.05 AL
Greens, Collard	80	0			0.004 ^	0.05 AL
Greens, Kale	82	1	1.2	0.007 ^	0.004 ^	0.05 AL
Kidney Beans, Canned	186	0			0.002 - 0.004	0.05 AL
Peaches	616	0			0.002 - 0.004	NT
Potatoes	744	3	0.4	0.002 - 0.007	0.002 - 0.004	0.05 AL
Spinach	216	0			0.004 ^	0.05 AL
Strawberries	741	0			0.004 - 0.015	NT
Summer Squash	554	6	1.1	0.007 - 0.044	0.004 ^	0.05 AL
Sweet Corn, Fresh	152	0			0.004 - 0.080	NT
Sweet Corn, Frozen	33	0			0.004 - 0.080	NT
Sweet Potatoes	184	0			0.003 - 0.004	0.05 AL
Tomatoes	740	0			0.004 ^	0.05 AL
TOTAL	**7,654**	**10**				
EPN (insecticide)						
Asparagus	108	0			0.005 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Potatoes	108	0			0.005 ^	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**486**	**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
EPTC (herbicide)						
Blueberries	515	0			0.064 ^	0.1
Blueberries, Frozen	13	0			0.064 ^	0.1
Broccoli	554	0			0.064 ^	0.1
Celery	526	0			0.064 ^	0.1
Grape Juice	531	0			0.004 ^	0.1
Green Onions	186	0			0.064 ^	NT
Kidney Beans, Canned	132	0			0.020 ^	0.1
Potatoes	506	0			0.020 ^	0.1
Strawberries	526	0			0.004 ^	0.1
Tomatoes	740	0			0.023 ^	0.1
TOTAL	**4,229**	**0**				
Esfenvalerate (insecticide) (isomer of Fenvalerate)						
Apple Juice	108	0			0.006 - 0.015	2.0
Asparagus	108	0			0.015 ^	0.05
Blueberries	210	8	3.8	0.025 - 0.090	0.006 - 0.015	3.0
Blueberries, Frozen	5	0			0.006 - 0.015	3.0
Celery	215	0			0.015 ^	0.05
Grape Juice	745	0			0.006 - 0.025	0.05
Green Beans	215	13	6	0.025 - 0.096	0.015 ^	2.0
Greens, Collard	80	3	3.8	0.053 - 0.29	0.015 ^	10.0
Greens, Kale	82	0			0.015 ^	0.05
Kidney Beans, Canned	54	0			0.015 ^	2.0
Nectarines	672	1	0.1	0.10 ^	0.061 ^	10.0
Peaches	177	7	4	0.025 - 0.068	0.015 ^	10.0
Potatoes	216	0			0.006 - 0.015	0.05
Spinach	216	0			0.006 - 0.015	0.05
Strawberries	741	0			0.006 - 0.025	0.05
Summer Squash	158	0			0.015 ^	0.5
Sweet Corn, Fresh	47	0			0.015 ^	0.1
Sweet Corn, Frozen	7	0			0.015 ^	0.1
Sweet Potatoes	54	0			0.015 ^	0.05
Tomatoes	740	0			0.072 ^	0.05
TOTAL	**4,850**	**32**				
Esfenvalerate+Fenvalerate Total (insecticide)						
Apple Juice	264	0			0.050 ^	2.0
Asparagus	264	0			0.050 ^	0.05
Blueberries	502	44	8.8	0.014 - 0.28	0.009 - 0.058	3.0
Blueberries, Frozen	13	2	15.4	0.042 - 0.13	0.009 - 0.058	3.0
Broccoli	538	0			0.009 - 0.058	2.0
Celery	511	0			0.009 - 0.12	0.05
Green Beans	526	0			0.13 ^	2.0
Green Onions	186	0			0.029 - 0.058	0.05
Greens, Collard	160	2	1.2	0.18 - 0.66	0.13 ^	10.0
Greens, Kale (X-4)	236	4	1.7	0.24 - 0.77	0.13 ^	0.05
Kidney Beans, Canned	132	0			0.001 - 0.002	2.0
Peaches	439	44	10	0.002 - 0.084	0.002 - 0.015	10.0
Potatoes	528	1	0.2	0.001 ^	0.001 - 0.008	0.05
Spinach (X-2)	528	2	0.4	0.78 - 2.3	0.13 ^	0.05
Summer Squash	396	0			0.050 ^	0.5
Sweet Corn, Fresh	105	0			0.050 ^	0.1
Sweet Corn, Frozen	26	0			0.050 ^	0.1
Sweet Potatoes	130	0			0.13 ^	0.05
TOTAL	**5,484**	**99**				
Ethalfluralin (herbicide)						
Apple Juice	264	0			0.050 ^	NT
Asparagus	372	0			0.007 - 0.050	NT
Blueberries	621	0			0.007 - 0.017	NT
Blueberries, Frozen	15	0			0.007 - 0.017	NT
Broccoli	544	0			0.017 - 0.11	NT

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
Celery	726	0			0.007 - 0.017	NT
Grape Juice	108	0			0.007 ^	NT
Green Beans	215	0			0.007 ^	NT
Green Onions	170	0			0.017 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.007	NT
Peaches	216	0			0.0002 ^	NT
Potatoes	416	0			0.0002 - 0.007	0.05
Spinach	216	0			0.007 ^	NT
Strawberries	107	0			0.007 ^	NT
Summer Squash	554	0			0.007 - 0.050	0.05
Sweet Corn, Fresh	152	0			0.007 - 0.050	NT
Sweet Corn, Frozen	33	0			0.007 - 0.050	NT
Sweet Potatoes	54	0			0.007 ^	NT
TOTAL	**4,969**	**0**				
Ethiofencarb (insecticide)						
Blueberries	515	0			0.015 ^	NT
Blueberries, Frozen	13	0			0.015 ^	NT
Broccoli	554	0			0.015 - 0.050	NT
Celery	526	0			0.015 ^	NT
Green Beans	526	0			0.010 ^	NT
Green Onions	186	0			0.015 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**2,846**	**0**				
Ethion (insecticide)						
Blueberries	515	0			0.001 ^	NT
Blueberries, Frozen	13	0			0.001 ^	NT
Broccoli	554	0			0.001 ^	NT
Celery	526	0			0.001 ^	NT
Grape Juice	531	0			0.002 ^	NT
Green Beans	526	0			0.005 ^	NT
Green Onions	186	0			0.001 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale	236	0			0.005 ^	NT
Kidney Beans, Canned	164	0			0.002 - 0.006	NT
Peaches	197	0			0.006 ^	NT
Potatoes	286	0			0.006 ^	NT
Spinach	528	0			0.005 ^	NT
Strawberries	526	0			0.002 ^	NT
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**5,078**	**0**				
Ethion di oxon (metabolite of Ethion)						
Kidney Beans, Canned	132	0			0.005 ^	NT
Peaches	197	0			0.005 ^	NT
Potatoes	308	0			0.005 ^	NT
TOTAL	**637**	**0**				
Ethion mono oxon (metabolite of Ethion)						
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.005	NT
Peaches	197	0			0.005 ^	NT
Potatoes	308	0			0.005 ^	NT
TOTAL	**2,485**	**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
Ethoprop (insecticide)						
Apple Juice	108	0			0.001 ^	NT
Asparagus	108	0			0.001 ^	0.02
Blueberries	726	0			0.0009 - 0.001	NT
Blueberries, Frozen	18	0			0.0009 - 0.001	NT
Broccoli	554	0			0.0009 ^	NT
Celery	741	0			0.0009 - 0.001	NT
Grape Juice	214	0			0.001 ^	NT
Green Beans	741	1	0.1	0.012 ^	0.001 - 0.010	0.02
Green Onions	186	0			0.001 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.002	0.02
Peaches	377	0			0.001 - 0.002	NT
Potatoes	744	0			0.001 - 0.002	0.02
Spinach	744	0			0.001 - 0.010	NT
Strawberries	215	0			0.001 ^	NT
Summer Squash	158	0			0.001 ^	NT
Sweet Corn, Fresh	152	0			0.001 - 0.008	0.02
Sweet Corn, Frozen	33	0			0.001 - 0.008	0.02
Sweet Potatoes	184	0			0.001 - 0.010	0.02
TOTAL	**6,585**	**1**				
Etoxazole (acaricide)						
Apple Juice	264	0			0.050 ^	0.20
Blueberries	515	0			0.0001 - 0.001	NT
Blueberries, Frozen	13	0			0.0001 - 0.001	NT
Broccoli (V-1)	554	1	0.2	0.0002 ^	0.0001 ^	NT
Celery	526	0			0.0001 - 0.001	NT
Green Onions	186	0			0.001 ^	NT
TOTAL	**2,058**	**1**				
Etridiazole (fungicide)						
Grape Juice	487	0			0.005 ^	NT
Kidney Beans, Canned	132	0			0.024 ^	NT
Potatoes	220	0			0.024 ^	NT
Strawberries	504	0			0.005 ^	NT
Tomatoes	740	0			0.025 ^	0.15
TOTAL	**2,083**	**0**				
Famoxadone (fungicide)						
Apple Juice	108	0			0.002 ^	NT
Asparagus	108	0			0.002 ^	NT
Blueberries	211	0			0.002 ^	NT
Blueberries, Frozen	5	0			0.002 ^	NT
Celery	215	0			0.002 ^	NT
Grape Juice	745	0			0.002 - 0.013	2.5
Green Beans	215	0			0.002 ^	NT
Greens, Collard (V-1)	1	1	100	0.016 ^	0.002 ^	NT
Greens, Kale (V-1)	1	1	100	0.022 ^	0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Peaches (V-1)	180	1	0.6	0.003 ^	0.002 ^	NT
Potatoes	216	0			0.002 ^	0.02
Spinach	216	0			0.002 ^	NT
Strawberries	741	0			0.002 - 0.013	NT
Summer Squash	554	3	0.5	0.003 - 0.013	0.002 - 0.050	0.30
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
Tomatoes	740	3	0.4	0.10 ^	0.060 ^	1.0
TOTAL	**4,418**	**9**				

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
Fenamidone (fungicide)						
Apple Juice	108	0			0.003 ^	NT
Asparagus	108	0			0.003 ^	NT
Blueberries	211	0			0.003 ^	NT
Blueberries, Frozen	5	0			0.003 ^	NT
Celery	215	1	0.5	0.004 ^	0.003 ^	60
Grape Juice	745	0			0.003 - 0.010	1.0
Green Beans	215	0			0.003 ^	NT
Green Onions	186	2	1.1	0.004 - 0.012	0.002 ^	1.5
Greens, Collard	80	0			0.003 ^	55
Greens, Kale	82	1	1.2	0.004 ^	0.003 ^	55
Kidney Beans, Canned	186	0			0.003 - 0.005	NT
Peaches	377	0			0.003 - 0.005	NT
Potatoes	524	0			0.003 - 0.005	0.02
Spinach	216	0			0.003 ^	60
Strawberries	741	0			0.003 - 0.010	0.15
Summer Squash	554	0			0.003 - 0.015	0.15
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	0.02
TOTAL	**4,661**	**4**				
Fenamiphos (insecticide)						
Apple Juice	372	0			0.002 - 0.008	0.25
Asparagus	372	0			0.002 - 0.007	0.02
Blueberries	726	0			0.002 ^	NT
Blueberries, Frozen	18	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	741	0			0.002 ^	NT
Grape Juice	745	0			0.001 - 0.002	0.10
Green Beans	741	0			0.002 - 0.005	NT
Green Onions	186	0			0.002 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale	236	0			0.005 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.005	NT
Peaches	616	0			0.002 - 0.005	0.25
Potatoes	416	0			0.002 - 0.005	NT
Spinach	744	0			0.002 - 0.005	NT
Strawberries	741	0			0.001 - 0.002	0.6
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	184	0			0.002 - 0.005	NT
TOTAL	**7,950**	**0**				
Fenamiphos sulfone (metabolite of Fenamiphos)						
Apple Juice	372	0			0.002 - 0.008	0.25
Asparagus	372	0			0.002 - 0.007	0.02
Blueberries	726	0			0.002 - 0.004	NT
Blueberries, Frozen	18	0			0.002 - 0.004	NT
Broccoli	554	0			0.004 ^	NT
Celery	741	0			0.002 - 0.004	NT
Grape Juice	745	0			0.0007 - 0.002	0.10
Green Beans	741	0			0.002 - 0.005	NT
Green Onions	186	0			0.004 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale	236	0			0.005 ^	NT
Kidney Beans, Canned	186	0			0.002 ^	NT
Peaches	616	0			0.002 - 0.008	0.25
Potatoes	416	0			0.002 ^	NT
Spinach	744	0			0.002 - 0.005	NT
Strawberries	741	0			0.0007 - 0.002	0.6
Summer Squash	158	0			0.002 ^	NT

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
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	184	0			0.002 - 0.005	NT
TOTAL	**7,950**	**0**				
Fenamiphos sulfoxide (metabolite of Fenamiphos)						
Apple Juice	108	0			0.002 ^	0.25
Asparagus	372	0			0.002 - 0.010	0.02
Blueberries	726	0			0.002 - 0.004	NT
Blueberries, Frozen	18	0			0.002 - 0.004	NT
Broccoli	554	0			0.004 ^	NT
Celery	741	0			0.002 - 0.004	NT
Grape Juice	745	0			0.002 ^	0.10
Green Beans	741	0			0.002 - 0.005	NT
Green Onions	186	0			0.004 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale	236	0			0.005 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.005	NT
Peaches	597	1	0.2	0.010 ^	0.002 - 0.006	0.25
Potatoes	416	0			0.002 - 0.005	NT
Spinach	744	0			0.002 - 0.005	NT
Strawberries	741	0			0.002 ^	0.6
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	184	0			0.002 - 0.005	NT
TOTAL	**7,667**	**1**				
Fenarimol (fungicide)						
Apple Juice	372	0			0.015 - 0.020	0.1
Asparagus	108	0			0.015 ^	NT
Blueberries	726	0			0.010 - 0.015	NT
Blueberries, Frozen	18	0			0.010 - 0.015	NT
Broccoli	554	0			0.010 ^	NT
Celery	526	0			0.010 - 0.032	NT
Grape Juice	745	0			0.015 ^	0.1
Green Onions	186	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.015 - 0.020	NT
Peaches	377	0			0.015 - 0.020	NT
Potatoes	416	0			0.015 - 0.020	NT
Spinach	108	0			0.015 ^	NT
Strawberries	741	0			0.015 ^	NT
Sweet Corn, Fresh	47	0			0.015 ^	NT
Sweet Corn, Frozen	7	0			0.015 ^	NT
Sweet Potatoes	184	0			0.015 - 0.025	NT
TOTAL	**5,301**	**0**				
Fenbuconazole (fungicide)						
Apple Juice	372	0			0.030 - 0.040	0.4
Asparagus	108	0			0.030 ^	NT
Blueberries	726	88	12.1	0.001 - 0.065	0.0006 - 0.030	0.3
Blueberries, Frozen	18	4	22.2	0.001 - 0.003	0.0006 - 0.030	0.3
Broccoli	554	0			0.0006 ^	NT
Celery	526	0			0.0006 - 0.001	NT
Grape Juice	745	0			0.0006 - 0.10	1.0
Green Beans	526	0			0.005 ^	NT
Green Onions	186	0			0.003 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale	236	0			0.005 ^	NT
Kidney Beans, Canned	54	0			0.030 ^	NT
Nectarines	672	0			0.061 ^	1.0
Peaches	180	9	5	0.050 - 0.12	0.030 ^	1.0
Potatoes	108	0			0.030 ^	NT

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
Spinach	636	0			0.005 - 0.030	NT
Strawberries (V-1)	741	1	0.1	0.002 ^	0.0006 - 0.030	NT
Sweet Corn, Fresh	33	0			0.030 ^	NT
Sweet Corn, Frozen	3	0			0.030 ^	NT
Sweet Potatoes	184	0			0.005 - 0.030	NT
TOTAL	**6,768**	**102**				
Fenchlorphos (insecticide)						
Asparagus	108	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Potatoes	108	0			0.003 ^	NT
Spinach	108	0			0.003 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**486**	**0**				
Fenhexamid (fungicide)						
Blueberries	515	38	7.4	0.016 - 0.69	0.010 ^	5.0
Blueberries, Frozen	13	0			0.010 ^	5.0
Broccoli	493	0			0.064 - 0.13	NT
Celery	526	0			0.010 - 0.064	NT
Grape Juice	531	0			0.022 ^	4.0
Green Onions	186	0			0.010 ^	NT
Nectarines	672	112	16.7	0.043 - 2.6	0.026 ^	10.0
Strawberries	526	128	24.3	0.022 - 1.7	0.022 ^	3.0
Tomatoes	740	2	0.3	0.040 - 0.31	0.024 ^	2.0
TOTAL	**4,202**	**280**				
Fenitrothion (insecticide)						
Asparagus	108	0			0.002 ^	NT
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	554	0			0.010 ^	NT
Celery	526	0			0.003 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	108	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**2,280**	**0**				
Fenitrothion oxygen analog (metabolite of Fenitrothion)						
Kidney Beans, Canned	132	0			0.005 ^	NT
Peaches	197	0			0.005 ^	NT
Potatoes	308	0			0.005 ^	NT
TOTAL	**637**	**0**				
Fenpropathrin (insecticide)						
Apple Juice	372	0			0.006 - 0.050	5.0
Asparagus	372	0			0.009 - 0.050	NT
Blueberries	726	5	0.7	0.17 - 0.38	0.006 - 0.016	3.0
Blueberries, Frozen	18	1	5.6	0.026 ^	0.006 - 0.016	3.0
Broccoli	554	0			0.016 ^	3.0
Celery	721	0			0.006 - 0.052	NT
Grape Juice	745	0			0.006 - 0.010	5.0
Green Beans	215	0			0.006 ^	NT
Green Onions	186	0			0.016 ^	NT
Greens, Collard	80	0			0.020 ^	NT
Greens, Kale	82	0			0.020 ^	NT
Kidney Beans, Canned	186	0			0.010 - 0.020	NT

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
Peaches	396	0			0.020 ^	NT
Potatoes	523	0			0.006 - 0.020	NT
Spinach	744	0			0.006 - 0.015	NT
Strawberries	741	84	11.3	0.010 - 1.3	0.006 - 0.010	2.0
Summer Squash	554	0			0.006 - 0.050	0.5
Sweet Corn, Fresh	152	0			0.010 - 0.10	NT
Sweet Corn, Frozen	33	0			0.010 - 0.10	NT
Sweet Potatoes	184	0			0.010 - 0.015	NT
Tomatoes	740	27	3.6	0.030 - 0.10	0.018 ^	0.6
TOTAL	**8,324**	**117**				
Fenpyroximate (acaricide)						
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.0006 - 0.003	NT
Green Onions	154	0			0.003 - 0.006	NT
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**1,892**	**0**				
Fensulfothion (insecticide, fumigant)						
Asparagus	108	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Potatoes	108	0			0.003 ^	NT
Spinach	108	0			0.003 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**486**	**0**				
Fenthion (insecticide)						
Asparagus	108	0			0.002 ^	NT
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Grape Juice	531	0			0.002 ^	NT
Green Beans	526	0			0.008 ^	NT
Green Onions	186	0			0.002 ^	NT
Greens, Collard	160	0			0.008 ^	NT
Greens, Kale	236	0			0.008 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	636	0			0.002 - 0.008	NT
Strawberries	526	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**4,787**	**0**				
Fenvalerate (isomer of Esfenvalerate)						
Apple Juice	108	0			0.006 - 0.015	2.0
Asparagus	108	0			0.015 ^	0.05
Blueberries	210	0			0.006 - 0.015	3.0
Blueberries, Frozen	5	0			0.006 - 0.015	3.0
Celery	215	0			0.015 ^	0.05
Grape Juice	214	0			0.006 - 0.015	0.05
Green Beans	215	0			0.015 ^	2.0
Greens, Collard	80	0			0.015 ^	10.0
Greens, Kale	82	0			0.015 ^	0.05
Kidney Beans, Canned	54	0			0.015 ^	2.0
Peaches	177	0			0.015 ^	10.0
Potatoes	216	0			0.006 - 0.015	0.05

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
Spinach	216	0			0.006 - 0.015	0.05
Strawberries	215	0			0.006 - 0.015	0.05
Summer Squash	158	0			0.015 ^	0.5
Sweet Corn, Fresh	47	0			0.015 ^	0.1
Sweet Corn, Frozen	7	0			0.015 ^	0.1
Sweet Potatoes	36	0			0.015 ^	0.05
TOTAL	**2,363**	**0**				
Fipronil (insecticide)						
Kidney Beans, Canned	132	0			0.050 ^	NT
Peaches	197	0			0.008 ^	NT
Potatoes	308	0			0.008 - 0.050	0.03
TOTAL	**637**	**0**				
Flonicamid (insecticide)						
Apple Juice	372	0			0.020 - 0.040	0.20
Asparagus	108	0			0.020 ^	NT
Blueberries	211	0			0.020 - 0.030	NT
Blueberries, Frozen	5	0			0.020 - 0.030	NT
Celery	233	31	13.3	0.002 - 0.16	0.001 - 0.020	0.40
Grape Juice	214	0			0.020 - 0.030	NT
Green Beans	215	0			0.020 ^	NT
Green Onions	186	0			0.001 ^	NT
Greens, Collard	80	0			0.020 ^	16
Greens, Kale	82	3	3.7	0.033 ^	0.020 ^	16
Kidney Beans, Canned	54	0			0.020 ^	NT
Nectarines	672	0			0.006 ^	0.60
Peaches	180	0			0.020 ^	0.60
Potatoes	216	0			0.020 ^	0.20
Spinach	216	30	13.9	0.033 - 3.8	0.020 ^	9.0
Strawberries	215	0			0.020 - 0.030	NT
Summer Squash	554	0			0.020 - 0.040	0.40
Sweet Corn, Fresh	47	0			0.020 ^	NT
Sweet Corn, Frozen	7	0			0.020 ^	NT
Sweet Potatoes	54	0			0.020 ^	0.20
Tomatoes (X-1)	740	9	1.2	0.010 - 0.57	0.006 ^	0.40
TOTAL	**4,661**	**73**				
Fluazifop butyl (herbicide)						
Blueberries	515	0			0.0003 - 0.001	NT
Blueberries, Frozen	13	0			0.0003 - 0.001	NT
Broccoli	554	0			0.0003 ^	NT
Celery	526	0			0.0003 - 0.001	NT
Green Onions	186	0			0.003 ^	0.5
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**1,924**	**0**				
Fludioxonil (fungicide)						
Apple Juice	372	0			0.002 - 0.050	5.0
Asparagus	108	0			0.002 ^	0.4
Blueberries	726	111	15.3	0.003 - 0.20	0.002 - 0.012	2.0
Blueberries, Frozen	18	2	11.1	0.015 - 0.020	0.002 - 0.012	2.0
Broccoli	554	1	0.2	0.020 ^	0.012 - 0.040	2
Celery (X-2)	741	3	0.4	0.008 - 0.020	0.002 - 0.012	0.01
Grape Juice	745	2	0.3	0.003 ^	0.002 - 0.008	1.0
Green Beans	741	0			0.002 - 0.010	0.4
Green Onions	186	0			0.012 ^	7.0
Greens, Collard	240	0			0.002 - 0.010	10
Greens, Kale	318	0			0.002 - 0.010	10
Kidney Beans, Canned	186	0			0.002 - 0.055	0.4
Nectarines	672	291	43.3	0.18 - 3.6	0.11 ^	5.0
Peaches	616	293	47.6	0.003 - 4.7	0.002 - 0.020	5
Potatoes	744	3	0.4	0.003 ^	0.002 - 0.055	0.02

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
Spinach	744	0			0.002 - 0.010	0.01
Strawberries	741	192	25.9	0.003 - 0.43	0.002 - 0.008	2.0
Summer Squash	554	1	0.2	0.003 ^	0.002 - 0.050	0.01
Sweet Corn, Fresh	152	0			0.002 - 0.050	0.02
Sweet Corn, Frozen	33	0			0.002 - 0.050	0.02
Sweet Potatoes	184	2	1.1	0.018 - 0.036	0.002 - 0.010	3.5
Tomatoes	740	0			0.10 ^	0.50
TOTAL	**10,115**	**901**				
Flufenacet (herbicide)						
Sweet Corn, Fresh	105	0			0.040 ^	0.05
Sweet Corn, Frozen	26	0			0.040 ^	0.05
TOTAL	**131**	**0**				
Flumioxazin (herbicide)						
Apple Juice	264	0			0.080 ^	0.02
Grape Juice	531	0			0.013 ^	0.02
Nectarines	672	0			0.054 ^	0.02
TOTAL	**1,467**	**0**				
Fluoxastrobin (fungicide)						
Blueberries	515	0			0.001 ^	NT
Blueberries, Frozen	13	0			0.001 ^	NT
Broccoli	554	0			0.001 ^	NT
Celery	526	0			0.001 ^	4.0
Green Onions	186	0			0.001 ^	NT
Sweet Potatoes	130	0			0.002 ^	0.010
Tomatoes	740	0			0.003 ^	1.0
TOTAL	**2,664**	**0**				
Fluridone (herbicide)						
Apple Juice	372	0			0.001 - 0.050	0.1
Asparagus	372	0			0.001 - 0.050	0.1
Blueberries	211	0			0.001 ^	0.1
Blueberries, Frozen	5	0			0.001 ^	0.1
Celery	215	0			0.001 ^	0.1
Grape Juice	745	0			0.0002 - 0.001	0.1
Green Beans	741	0			0.001 - 0.010	0.1
Greens, Collard	240	0			0.001 - 0.010	0.1
Greens, Kale	318	0			0.001 - 0.010	0.1
Kidney Beans, Canned	186	0			0.001 - 0.085	0.1
Peaches	616	0			0.001 - 0.036	0.1
Potatoes	744	0			0.001 - 0.085	0.1
Spinach	744	0			0.001 - 0.010	0.1
Strawberries	741	0			0.0002 - 0.001	0.1
Summer Squash	554	0			0.001 - 0.050	0.1
Sweet Corn, Fresh	152	0			0.001 - 0.050	0.1
Sweet Corn, Frozen	33	0			0.001 - 0.050	0.1
Sweet Potatoes	184	0			0.001 - 0.010	0.1
TOTAL	**7,173**	**0**				
Fluroxypyr (herbicide)						
Potatoes	744	0			0.020 ^	NT
Spinach	744	0			0.020 ^	NT
TOTAL	**1,488**	**0**				
Flutolanil (fungicide)						
Kidney Beans, Canned	132	0			0.003 ^	NT
Peaches	197	0			0.003 ^	NT
Potatoes	528	50	9.5	0.002 - 0.030	0.001 - 0.003	0.20
TOTAL	**857**	**50**				

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
Fluvalinate (insecticide)						
Apple Juice	108	0			0.006 - 0.015	NT
Asparagus	372	0			0.015 - 0.12	NT
Blueberries	211	0			0.006 - 0.020	NT
Blueberries, Frozen	5	0			0.006 - 0.015	NT
Grape Juice	745	0			0.006 - 0.015	NT
Kidney Beans, Canned	186	0			0.010 - 0.015	NT
Peaches	216	0			0.020 ^	NT
Potatoes	524	0			0.006 - 0.020	NT
Spinach	744	0			0.006 - 0.020	NT
Strawberries	741	0			0.006 - 0.040	NT
Sweet Corn, Fresh	152	0			0.015 - 0.12	NT
Sweet Corn, Frozen	33	0			0.015 - 0.12	NT
Sweet Potatoes	184	0			0.015 ^	NT
TOTAL	**4,221**	**0**				
Folpet (fungicide)						
Apple Juice	372	0			0.008 - 0.015	5.0
Asparagus	108	0			0.015 ^	NT
Blueberries	211	0			0.015 ^	NT
Blueberries, Frozen	5	0			0.015 ^	NT
Grape Juice	678	0			0.015 - 0.030	50.0
Kidney Beans, Canned	54	0			0.015 ^	NT
Peaches	180	0			0.015 ^	NT
Potatoes	108	0			0.015 ^	NT
Spinach	108	0			0.015 ^	NT
Strawberries	697	1	0.1	0.39 ^	0.015 - 0.030	5.0
Sweet Corn, Fresh	47	0			0.015 ^	NT
Sweet Corn, Frozen	7	0			0.015 ^	NT
Sweet Potatoes	54	0			0.015 ^	NT
Tomatoes	740	1	0.1	0.025 ^	0.015 ^	25.0
TOTAL	**3,369**	**2**				
Fonofos (insecticide)						
Asparagus	108	0			0.002 ^	NT
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Green Beans	526	0			0.005 ^	NT
Green Onions	186	0			0.002 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale	236	0			0.005 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	NT
Peaches	197	0			0.010 ^	NT
Potatoes	636	0			0.002 - 0.010	NT
Spinach	635	0			0.002 - 0.005	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**4,586**	**0**				
Forchlorfenuron (plant growth regulator)						
Apple Juice	264	0			0.020 ^	0.01
TOTAL	**264**	**0**				
Formetanate hydrochloride (insecticide)						
Green Onions	186	0			0.020 ^	NT
Nectarines	667	355	53.2	0.0002 - 0.74	0.0001 ^	4.0
Peaches	595	115	19.3	0.0002 - 1.1	0.0001 ^	5.0
TOTAL	**1,448**	**470**				

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
Halosulfuron methyl (herbicide)						
Apple Juice	108	0			0.001 ^	NT
Asparagus	108	0			0.001 ^	0.8
Blueberries	211	0			0.001 ^	NT
Blueberries, Frozen	5	0			0.001 ^	NT
Celery	215	0			0.001 ^	NT
Grape Juice	214	0			0.001 ^	NT
Green Beans	215	0			0.001 ^	0.05
Kidney Beans, Canned	54	0			0.001 ^	0.05
Peaches	180	0			0.001 ^	NT
Potatoes	108	0			0.001 ^	NT
Spinach	198	0			0.001 ^	NT
Strawberries	215	0			0.001 ^	NT
Summer Squash	158	0			0.001 ^	0.5
Sweet Corn, Fresh	47	0			0.001 ^	0.05
Sweet Corn, Frozen	7	0			0.001 ^	0.05
Sweet Potatoes	54	0			0.001 ^	1.0
TOTAL	**2,097**	**0**				
Heptachlor (insecticide)						
Apple Juice	108	0			0.003 ^	0.01 AL
Asparagus	350	0			0.003 - 0.040	0.05 AL
Blueberries	713	0			0.002 - 0.003	0.01 AL
Blueberries, Frozen	16	0			0.002 - 0.003	0.01 AL
Broccoli	539	0			0.002 ^	0.01 AL
Celery	741	0			0.002 - 0.003	0.01 AL
Grape Juice	745	0			0.003 - 0.005	0.01 AL
Green Beans	741	0			0.003 ^	0.01 AL
Green Onions	186	0			0.002 ^	0.01 AL
Greens, Collard	80	0			0.003 ^	0.01 AL
Greens, Kale	82	0			0.003 ^	0.01 AL
Kidney Beans, Canned	186	0			0.001 - 0.003	0.01 AL
Nectarines	672	0			0.004 ^	0.01 AL
Peaches	616	0			0.001 - 0.003	0.01 AL
Potatoes	436	0			0.001 - 0.003	0.01 AL
Spinach	722	0			0.003 ^	0.01 AL
Strawberries	741	0			0.003 - 0.005	0.01 AL
Summer Squash	554	0			0.002 - 0.003	0.02 AL
Sweet Corn, Fresh	152	0			0.003 - 0.040	0.05 AL
Sweet Corn, Frozen	33	0			0.003 - 0.040	0.01 AL
Sweet Potatoes	184	0			0.002 - 0.003	0.01 AL
Tomatoes	740	0			0.004 ^	0.01 AL
TOTAL	**9,337**	**0**				
Heptachlor epoxide (metabolite of Heptachlor)						
Apple Juice	108	0			0.004 ^	0.01 AL
Asparagus	350	0			0.004 - 0.040	0.05 AL
Blueberries	726	0			0.004 ^	0.01 AL
Blueberries, Frozen	18	0			0.004 ^	0.01 AL
Broccoli	554	0			0.004 ^	0.01 AL
Celery	741	0			0.004 ^	0.01 AL
Grape Juice	745	0			0.004 - 0.010	0.01 AL
Green Beans	215	0			0.004 ^	0.01 AL
Green Onions	186	0			0.004 ^	0.01 AL
Greens, Collard	80	0			0.004 ^	0.01 AL
Greens, Kale	82	0			0.004 ^	0.01 AL
Kidney Beans, Canned	186	0			0.001 - 0.004	0.01 AL
Peaches	616	0			0.001 - 0.004	0.01 AL
Potatoes	524	0			0.001 - 0.004	0.01 AL
Spinach	216	0			0.004 ^	0.01 AL
Strawberries	741	1	0.1	0.007 ^	0.004 - 0.010	0.01 AL
Summer Squash (X-2)	554	14	2.5	0.003 - 0.16	0.002 - 0.004	0.05 AL
Sweet Corn, Fresh	152	0			0.004 - 0.040	0.01 AL

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
Sweet Corn, Frozen	33	0			0.004 - 0.040	0.01 AL
Sweet Potatoes	184	0			0.002 - 0.004	0.01 AL
TOTAL	**7,011**	**15**				
Heptachlor epoxide cis (metabolite of Heptachlor)						
Nectarines	672	0			0.004 ^	0.01 AL
Tomatoes	740	0			0.004 ^	0.01 AL
TOTAL	**1,412**	**0**				
Heptachlor epoxide trans (metabolite of Heptachlor)						
Nectarines	672	0			0.004 ^	0.01 AL
Tomatoes	740	0			0.004 ^	0.01 AL
TOTAL	**1,412**	**0**				
Hexachlorobenzene - HCB (impurity of Quintozene)						
Apple Juice	108	0			0.002 ^	NT
Asparagus	108	0			0.002 ^	0.1
Blueberries	726	0			0.001 - 0.002	NT
Blueberries, Frozen	18	0			0.001 - 0.002	NT
Broccoli	554	0			0.001 ^	0.1
Celery	682	0			0.001 - 0.010	NT
Grape Juice	214	0			0.002 ^	NT
Green Beans	741	0			0.001 - 0.002	0.1
Green Onions	186	0			0.001 ^	NT
Greens, Collard	240	0			0.001 - 0.002	0.2
Greens, Kale	318	0			0.001 - 0.002	0.2
Kidney Beans, Canned	186	0			0.002 - 0.003	0.1
Peaches	396	0			0.002 - 0.006	NT
Potatoes	744	0			0.002 - 0.006	0.1
Spinach	744	0			0.001 - 0.002	NT
Strawberries	215	0			0.002 ^	NT
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
Tomatoes	740	0			0.003 ^	0.1
TOTAL	**7,186**	**0**				
Hexaconazole (fungicide)						
Green Beans	526	0			0.010 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.020 ^	NT
Peaches	180	0			0.020 ^	NT
Spinach	528	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.020 ^	NT
Sweet Corn, Frozen	7	0			0.020 ^	NT
Sweet Potatoes	184	0			0.010 - 0.020	NT
TOTAL	**1,922**	**0**				
Hexazinone (herbicide)						
Kidney Beans, Canned	132	0			0.001 ^	NT
Peaches	197	0			0.001 ^	NT
Potatoes	308	0			0.001 ^	NT
TOTAL	**637**	**0**				
Hexythiazox (insecticide, acaricide)						
Grape Juice	531	0			0.012 ^	0.75
Strawberries	526	22	4.2	0.012 - 0.33	0.012 ^	3.0
TOTAL	**1,057**	**22**				
Hydroprene (insect growth regulator)						
Apple Juice	264	0			0.015 ^	0.2
Asparagus	220	0			0.030 ^	0.2

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
Blueberries	515	0			0.013 ^	0.2
Blueberries, Frozen	13	0			0.013 ^	0.2
Broccoli	554	0			0.013 ^	0.2
Celery	526	0			0.013 ^	0.2
Green Onions	186	0			0.013 ^	0.2
Summer Squash	396	0			0.015 ^	0.2
Sweet Corn, Fresh	105	0			0.060 ^	0.2
Sweet Corn, Frozen	26	0			0.060 ^	0.2
TOTAL	**2,805**	**0**				
3-Hydroxycarbofuran (metabolite of Carbofuran)						
Apple Juice	108	0			0.004 ^	NT
Asparagus	372	0			0.004 - 0.010	NT
Blueberries (V-3)	726	3	0.4	0.002 - 0.007	0.001 - 0.004	NT
Blueberries, Frozen	18	0			0.001 - 0.004	NT
Broccoli	554	0			0.001 - 0.008	NT
Celery	741	0			0.001 - 0.008	NT
Grape Juice	707	0			0.004 - 0.006	0.4
Green Beans	741	0			0.004 - 0.010	NT
Green Onions (V-1)	186	1	0.5	0.007 ^	0.004 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.004	NT
Peaches	377	0			0.003 - 0.004	NT
Potatoes	744	13	1.7	0.002 - 0.007	0.001 - 0.004	2
Spinach	744	0			0.004 - 0.010	NT
Strawberries	697	0			0.004 - 0.006	0.5
Summer Squash	554	1	0.2	0.036 ^	0.004 - 0.006	0.8
Sweet Corn, Fresh	152	0			0.004 - 0.010	1.0
Sweet Corn, Frozen	33	0			0.004 - 0.010	1.0
Sweet Potatoes	184	0			0.004 - 0.010	NT
TOTAL	**8,220**	**18**				
5-Hydroxythiabendazole (metabolite of Thiabendazole)						
Apple Juice	108	2	1.9	0.002 ^	0.001 ^	5
Asparagus	108	0			0.001 ^	NT
Blueberries	211	0			0.001 ^	NT
Blueberries, Frozen	5	0			0.001 ^	NT
Celery	215	0			0.001 ^	NT
Grape Juice	280	0			0.001 - 0.042	NT
Green Beans	215	0			0.001 ^	NT
Kidney Beans, Canned	54	0			0.001 ^	NT
Peaches	180	0			0.001 ^	NT
Potatoes	216	6	2.8	0.002 - 0.017	0.001 ^	10.0
Spinach	216	0			0.001 ^	NT
Strawberries	237	0			0.001 - 0.042	5.0
Summer Squash	158	0			0.001 ^	NT
Sweet Corn, Fresh	47	0			0.001 ^	NT
Sweet Corn, Frozen	7	0			0.001 ^	NT
Sweet Potatoes	54	0			0.001 ^	0.05
TOTAL	**2,311**	**8**				
Imazalil (fungicide)						
Apple Juice	108	0			0.004 ^	NT
Asparagus	108	0			0.004 ^	NT
Blueberries	726	0			0.004 - 0.010	NT
Blueberries, Frozen	18	0			0.004 - 0.010	NT
Broccoli	554	0			0.010 ^	NT
Celery	526	0			0.010 ^	NT
Grape Juice	745	0			0.004 - 0.009	NT
Green Beans	526	0			0.010 ^	NT
Green Onions	186	0			0.010 ^	NT
Greens, Collard	160	0			0.010 ^	NT

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
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.004 ^	NT
Peaches (V-6)	616	6	1	0.006 - 0.070	0.004 - 0.030	NT
Potatoes	108	0			0.004 ^	NT
Spinach	636	0			0.004 - 0.010	NT
Strawberries	719	0			0.004 - 0.009	NT
Sweet Corn, Fresh	47	0			0.004 ^	NT
Sweet Corn, Frozen	7	0			0.004 ^	NT
Sweet Potatoes	184	0			0.004 - 0.010	NT
TOTAL	**6,264**	**6**				
Imidacloprid (insecticide)						
Apple Juice	372	0			0.009 - 0.020	0.5
Asparagus	108	1	0.9	0.015 ^	0.009 ^	4.0
Blueberries	726	79	10.9	0.0005 - 0.074	0.0003 - 0.009	3.5
Blueberries, Frozen	18	2	11.1	0.001 - 0.015	0.0003 - 0.009	3.5
Broccoli	554	372	67.1	0.0005 - 0.021	0.0003 ^	3.5
Celery	741	205	27.7	0.001 - 0.032	0.001 - 0.009	6.0
Grape Juice	745	0			0.009 - 0.021	1.5
Green Beans	741	6	0.8	0.013 - 0.093	0.009 - 0.010	4.0
Green Onions (V-1)	186	1	0.5	0.002 ^	0.001 ^	NT
Greens, Collard	240	56	23.3	0.010 - 0.41	0.009 - 0.010	3.5
Greens, Kale	318	95	29.9	0.010 - 0.69	0.009 - 0.010	3.5
Kidney Beans, Canned	186	0			0.003 - 0.009	4.0
Peaches	616	42	6.8	0.002 - 0.061	0.001 - 0.009	3.0
Potatoes	744	171	23	0.002 - 0.049	0.001 - 0.009	0.40
Spinach	744	319	42.9	0.010 - 1.0	0.009 - 0.010	3.5
Strawberries	741	12	1.6	0.015 - 0.055	0.009 - 0.021	0.5
Summer Squash	158	28	17.7	0.015 - 0.089	0.009 ^	0.5
Sweet Corn, Fresh	47	0			0.009 ^	0.05
Sweet Corn, Frozen	7	0			0.009 ^	0.05
Sweet Potatoes	184	0			0.009 - 0.010	0.40
TOTAL	**8,176**	**1,389**				
Imidacloprid urea (metabolite of Imidacloprid)						
Sweet Corn, Fresh	105	0			0.020 ^	0.05
Sweet Corn, Frozen	26	0			0.020 ^	0.05
TOTAL	**131**	**0**				
Imiprothrin (insecticide)						
Apple Juice	90	0			0.018 - 0.030	NT
Asparagus	372	0			0.030 - 0.040	NT
Blueberries	195	0			0.018 - 0.030	NT
Blueberries, Frozen	4	0			0.030 ^	NT
Celery	38	0			0.015 ^	NT
Grape Juice	196	0			0.018 - 0.030	NT
Kidney Beans, Canned	186	0			0.010 - 0.015	NT
Peaches	197	0			0.010 ^	NT
Potatoes	484	0			0.010 - 0.030	NT
Spinach	198	0			0.018 - 0.030	NT
Strawberries	197	0			0.018 - 0.030	NT
Sweet Corn, Fresh	152	0			0.015 - 0.040	NT
Sweet Corn, Frozen	33	0			0.015 - 0.040	NT
Sweet Potatoes	54	0			0.015 ^	NT
TOTAL	**2,396**	**0**				
Indoxacarb (insecticide)						
Apple Juice	372	0			0.005 - 0.030	0.90
Asparagus	108	0			0.005 ^	NT
Blueberries	211	0			0.005 ^	NT
Blueberries, Frozen	5	0			0.005 ^	NT
Celery	215	0			0.005 ^	14
Grape Juice	745	0			0.005 - 0.008	2.0

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
Green Beans (V-1)	741	1	0.1	0.010 ^	0.005 - 0.010	NT
Greens, Collard	240	19	7.9	0.008 - 0.88	0.005 - 0.010	12
Greens, Kale	318	21	6.6	0.014 - 2.7	0.005 - 0.010	12
Kidney Beans, Canned	186	0			0.005 - 0.010	NT
Peaches	616	0			0.003 - 0.050	0.90
Potatoes	722	0			0.003 - 0.050	0.01
Spinach	744	13	1.7	0.008 - 0.21	0.005 - 0.010	14
Strawberries	741	0			0.005 - 0.008	NT
Summer Squash	158	3	1.9	0.008 - 0.029	0.005 ^	0.60
Sweet Corn, Fresh	152	0			0.005 - 0.040	0.02
Sweet Corn, Frozen	33	0			0.005 - 0.040	0.02
Sweet Potatoes	184	0			0.005 - 0.010	0.01
Tomatoes	740	0			0.004 ^	0.50
TOTAL	**7,231**	**57**				
Iprodione (fungicide)						
Apple Juice	108	0			0.015 ^	NT
Asparagus	108	0			0.015 ^	2.0
Blueberries	726	138	19	0.014 - 2.1	0.008 - 0.015	15.0
Blueberries, Frozen	18	3	16.7	0.014 - 0.21	0.008 - 0.015	15.0
Broccoli	554	0			0.008 ^	25
Celery (V-2)	741	2	0.3	0.014 - 0.029	0.008 - 0.015	NT
Grape Juice	745	0			0.015 - 0.025	60.0
Green Beans	215	3	1.4	0.025 - 0.13	0.015 ^	2.0
Green Onions	186	0			0.008 ^	NT
Kidney Beans, Canned	186	0			0.010 - 0.021	2.0
Nectarines	672	214	31.8	0.065 - 9.4	0.039 ^	20.0
Peaches	616	192	31.2	0.025 - 12	0.015 ^	20
Potatoes	744	0			0.010 - 0.015	0.5
Spinach (V-1)	216	1	0.5	0.11 ^	0.015 ^	NT
Strawberries	741	9	1.2	0.025 - 0.34	0.015 - 0.025	15
Summer Squash	158	0			0.015 ^	NT
Sweet Corn, Fresh	47	0			0.015 ^	NT
Sweet Corn, Frozen	7	0			0.015 ^	NT
Sweet Potatoes	54	0			0.015 ^	NT
TOTAL	**6,842**	**562**				
Iprovalicarb (fungicide)						
Grape Juice	531	0			0.020 ^	2
Strawberries	526	0			0.020 ^	NT
Tomatoes	740	0			0.003 ^	1.0
TOTAL	**1,797**	**0**				
Isofenphos (insecticide)						
Kidney Beans, Canned	54	0			0.003 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**162**	**0**				
Isoxaflutole (herbicide)						
Kidney Beans, Canned	132	0			0.015 ^	NT
Peaches	197	0			0.015 ^	NT
Potatoes	308	0			0.015 ^	NT
TOTAL	**637**	**0**				
Kresoxim-methyl (fungicide)						
Apple Juice	264	0			0.015 ^	0.5
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	554	0			0.003 ^	NT
Celery	526	0			0.003 ^	NT
Grape Juice	531	0			0.003 ^	1.0

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
Green Onions	186	0			0.010 ^	NT
Strawberries	526	0			0.003 ^	NT
TOTAL	**3,115**	**0**				
Lindane - BHC gamma (insecticide)						
Apple Juice	108	0			0.002 ^	NT
Asparagus	350	0			0.002 - 0.040	0.5 AL
Blueberries	726	0			0.002 - 0.003	0.5 AL
Blueberries, Frozen	18	0			0.002 - 0.003	0.5 AL
Broccoli	538	0			0.003 ^	NT
Celery	681	0			0.002 - 0.003	NT
Grape Juice	745	0			0.002 - 0.021	NT
Green Beans	215	0			0.002 ^	0.5 AL
Green Onions	186	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.013	0.5 AL
Peaches	616	0			0.002 - 0.006	NT
Potatoes	744	0			0.002 - 0.006	0.5 AL
Spinach	216	0			0.002 ^	NT
Strawberries	741	0			0.002 - 0.021	NT
Summer Squash	554	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.040	0.5 AL
Sweet Corn, Frozen	33	0			0.002 - 0.040	0.5 AL
Sweet Potatoes	184	0			0.002 - 0.003	0.5 AL
TOTAL	**6,993**	**0**				
Linuron (herbicide)						
Apple Juice	108	0			0.002 ^	NT
Asparagus	372	2	0.5	0.025 - 0.058	0.002 - 0.020	7.0
Blueberries (V-1)	726	1	0.1	0.003 ^	0.002 - 0.003	NT
Blueberries, Frozen	18	0			0.002 - 0.003	NT
Broccoli	554	0			0.003 ^	NT
Celery	741	228	30.8	0.003 - 0.20	0.002 - 0.003	0.5
Grape Juice	214	0			0.002 ^	NT
Green Beans	215	0			0.002 ^	NT
Green Onions	186	0			0.003 ^	NT
Greens, Collard (V-4)	80	4	5	0.003 - 0.007	0.002 ^	NT
Greens, Kale (V-1)	82	1	1.2	0.007 ^	0.002 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.003	NT
Peaches	377	0			0.002 - 0.003	NT
Potatoes	744	0			0.001 - 0.003	0.2
Spinach (V-7)	216	7	3.2	0.003 - 0.013	0.002 ^	NT
Strawberries	215	0			0.002 ^	NT
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.040	0.25
Sweet Corn, Frozen	33	0			0.002 - 0.040	0.25
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**5,431**	**243**				
Malathion (insecticide)						
Apple Juice	372	0			0.002 - 0.012	8
Asparagus	372	0			0.002 - 0.010	8
Blueberries	726	32	4.4	0.003 - 0.15	0.002 - 0.003	8
Blueberries, Frozen	18	5	27.8	0.003 - 0.005	0.002 - 0.003	8
Broccoli	554	2	0.4	0.010 - 0.032	0.003 ^	8
Celery	741	143	19.3	0.003 - 0.74	0.002 - 0.003	8
Grape Juice	745	4	0.5	0.0008 - 0.001	0.0008 - 0.002	8
Green Beans	741	0			0.002 - 0.004	8
Green Onions	186	2	1.1	0.005 ^	0.003 ^	8
Greens, Collard	240	3	1.2	0.006 - 0.077	0.004 ^	8
Greens, Kale	318	19	6	0.006 - 0.39	0.004 ^	8
Kidney Beans, Canned	186	0			0.002 ^	8
Nectarines	672	0			0.005 ^	8
Peaches	616	0			0.002 - 0.004	8

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
Potatoes	744	0			0.002 - 0.004	8
Spinach	744	0			0.002 - 0.004	8
Strawberries	741	182	24.6	0.0009 - 0.29	0.0008 - 0.002	8
Summer Squash	554	0			0.002 - 0.006	8
Sweet Corn, Fresh	152	0			0.002 - 0.010	2
Sweet Corn, Frozen	33	0			0.002 - 0.010	2
Sweet Potatoes	184	0			0.002 - 0.010	1
Tomatoes	740	0			0.005 ^	8
TOTAL	**10,379**	**392**				
Malathion oxygen analog (metabolite of Malathion)						
Apple Juice	372	0			0.002 - 0.012	8
Asparagus	372	0			0.002 - 0.010	8
Blueberries	726	2	0.3	0.003 - 0.005	0.002 - 0.003	8
Blueberries, Frozen	18	0			0.002 - 0.003	8
Broccoli	554	0			0.003 ^	8
Celery	741	0			0.002 - 0.003	8
Grape Juice	745	0			0.0003 - 0.002	8
Green Beans	741	0			0.002 - 0.006	8
Greens, Collard	240	0			0.003 - 0.006	8
Greens, Kale	318	3	0.9	0.009 - 0.050	0.003 - 0.006	8
Kidney Beans, Canned	186	0			0.002 ^	8
Nectarines	672	0			0.015 ^	8
Peaches	616	0			0.002 - 0.005	8
Potatoes	744	0			0.002 - 0.005	8
Spinach	744	0			0.002 - 0.006	8
Strawberries	741	141	19	0.0003 - 0.036	0.0003 - 0.002	8
Summer Squash	554	0			0.002 - 0.006	8
Sweet Corn, Fresh	152	0			0.002 - 0.010	2
Sweet Corn, Frozen	33	0			0.002 - 0.010	2
Sweet Potatoes	184	0			0.002 - 0.010	1
Tomatoes	740	0			0.015 ^	8
TOTAL	**10,193**	**146**				
Mandipropamide (fungicide)						
Green Onions	186	0			0.005 - 0.015	4
TOTAL	**186**	**0**				
MCPA (herbicide)						
Grape Juice	268	0			0.030 ^	NT
Potatoes	744	0			0.010 ^	NT
Spinach	744	0			0.010 ^	NT
Strawberries	504	0			0.030 ^	NT
TOTAL	**2,260**	**0**				
Mecoprop - MCPP (herbicide)						
Grape Juice	335	0			0.015 ^	NT
Potatoes	744	0			0.010 ^	NT
Spinach	744	0			0.010 ^	NT
Strawberries	504	0			0.015 ^	NT
TOTAL	**2,327**	**0**				
Mepanipyrim (fungicide)						
Tomatoes	740	0			0.008 ^	0.5
TOTAL	**740**	**0**				
Metalaxyl (fungicide)						
Apple Juice	372	0			0.010 - 0.015	0.2
Asparagus	372	0			0.010 - 0.015	7.0
Blueberries	726	1	0.1	0.010 ^	0.006 - 0.010	2.0
Blueberries, Frozen	18	0			0.006 - 0.010	2.0
Broccoli	554	0			0.006 ^	2.0
Celery	741	0			0.006 - 0.010	5.0

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
Grape Juice	745	0			0.010 ^	2.0
Green Beans (X-1)	741	5	0.7	0.017 - 0.78	0.010 - 0.015	0.2
Green Onions	186	0			0.020 ^	10.0
Greens, Collard (X-4)	240	9	3.8	0.016 - 0.90	0.010 - 0.015	0.1
Greens, Kale	318	6	1.9	0.018 - 0.049	0.010 - 0.015	0.1
Kidney Beans, Canned	186	0			0.010 ^	0.2
Nectarines	672	0			0.023 ^	1.0
Peaches	616	0			0.010 ^	1.0
Potatoes	744	1	0.1	0.017 ^	0.010 ^	0.5
Spinach	744	6	0.8	0.017 - 0.18	0.010 - 0.015	10.0
Strawberries	741	26	3.5	0.010 - 0.75	0.010 ^	10.0
Summer Squash	554	18	3.2	0.015 - 0.18	0.010 - 0.015	1.0
Sweet Corn, Fresh	152	0			0.010 - 0.015	0.1
Sweet Corn, Frozen	33	0			0.010 - 0.015	0.1
Sweet Potatoes	184	0			0.010 - 0.015	0.5
Tomatoes	740	0			0.023 ^	1.0
TOTAL	**10,379**	**72**				
Methamidophos (insecticide) (also a metabolite of Acephate)						
Apple Juice	372	0			0.001 - 0.007	0.02
Asparagus	372	6	1.6	0.002 - 0.51	0.001 - 0.080	3.0
Blueberries	726	1	0.1	0.002 ^	0.001 ^	0.02
Blueberries, Frozen	18	0			0.001 ^	0.02
Celery	741	154	20.8	0.002 - 0.025	0.001 ^	1.0
Grape Juice	745	0			0.001 - 0.008	0.02
Green Beans	741	199	26.9	0.002 - 0.92	0.001 - 0.008	3.0
Green Onions	186	0			0.001 ^	0.02
Greens, Collard	240	0			0.002 - 0.050	0.02
Greens, Kale	318	0			0.002 - 0.050	0.02
Kidney Beans, Canned	186	0			0.001 - 0.005	3.0
Nectarines	672	2	0.3	0.012 ^	0.007 ^	0.02
Peaches	616	9	1.5	0.002 - 0.023	0.001 - 0.005	0.02
Potatoes	744	1	0.1	0.003 ^	0.001 - 0.005	0.1
Spinach	744	2	0.3	0.002 - 0.012	0.001 - 0.008	0.02
Strawberries	741	0			0.001 - 0.008	0.02
Summer Squash (X-1)	554	7	1.3	0.002 - 0.039	0.001 - 0.004	0.02
Sweet Corn, Fresh	47	0			0.001 ^	0.02
Sweet Corn, Frozen	7	0			0.001 ^	0.02
Sweet Potatoes	184	0			0.001 - 0.010	0.02
Tomatoes	740	58	7.8	0.012 - 0.18	0.007 ^	1.0
TOTAL	**9,694**	**439**				
Methidathion (insecticide)						
Apple Juice	108	0			0.002 ^	0.05
Asparagus	108	0			0.002 ^	NT
Blueberries	726	0			0.002 ^	NT
Blueberries, Frozen	18	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Grape Juice	745	0			0.0006 - 0.002	NT
Green Beans	526	0			0.004 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.005	NT
Nectarines	672	0			0.003 ^	0.05
Peaches	616	0			0.002 - 0.005	0.05
Potatoes	416	0			0.002 - 0.005	NT
Spinach	636	0			0.002 - 0.015	NT
Strawberries	741	0			0.0006 - 0.002	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	184	0			0.002 - 0.010	NT
TOTAL	**7,002**	**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
Methidathion oxygen analog (metabolite of Methidathion)						
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	186	0			0.010 - 0.012	NT
Peaches	197	0			0.010 ^	0.05
Potatoes	308	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.012 ^	NT
Sweet Corn, Frozen	7	0			0.012 ^	NT
Sweet Potatoes	54	0			0.012 ^	NT
TOTAL	**985**	**0**				
Methiocarb (insecticide) (analyzed as sulfoxide)						
Blueberries	515	0			0.0006 - 0.001	NT
Blueberries, Frozen	13	0			0.0006 - 0.001	NT
Broccoli	554	0			0.0006 - 0.002	NT
Celery	526	0			0.0006 - 0.001	NT
Green Beans	526	0			0.010 ^	NT
Green Onions	186	0			0.003 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	132	0			0.005 ^	NT
Peaches	197	0			0.005 ^	NT
Potatoes	308	0			0.005 ^	NT
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**3,483**	**0**				
Methomyl (insecticide)						
Apple Juice	372	1	0.3	0.023 ^	0.014 - 0.020	1.0
Asparagus	372	12	3.2	0.014 - 0.35	0.010 - 0.014	2
Blueberries	726	21	2.9	0.006 - 0.77	0.004 - 0.014	6
Blueberries, Frozen	18	1	5.6	0.018 ^	0.004 - 0.014	6
Broccoli	554	3	0.5	0.004 - 0.010	0.004 - 0.008	3
Celery	741	27	3.6	0.004 - 0.24	0.004 - 0.014	3
Grape Juice	722	0			0.014 - 0.026	5
Green Beans	741	10	1.3	0.012 - 0.17	0.010 - 0.014	2
Green Onions	186	9	4.8	0.004 - 0.009	0.002 ^	3
Greens, Collard	240	4	1.7	0.049 - 1.0	0.010 - 0.014	6
Greens, Kale	318	1	0.3	0.022 ^	0.010 - 0.014	6
Kidney Beans, Canned	186	0			0.010 - 0.014	2
Nectarines	672	11	1.6	0.008 - 0.22	0.005 ^	5
Peaches	616	9	1.5	0.005 - 0.11	0.003 - 0.014	5
Potatoes	744	0			0.003 - 0.014	0.2
Spinach	744	18	2.4	0.018 - 2.3	0.010 - 0.014	6
Strawberries	741	96	13	0.023 - 1.9	0.014 - 0.026	2
Summer Squash	554	10	1.8	0.010 - 0.047	0.006 - 0.014	0.2
Sweet Corn, Fresh	152	0			0.010 - 0.014	0.1
Sweet Corn, Frozen	33	0			0.010 - 0.014	0.1
Sweet Potatoes	184	0			0.010 - 0.014	0.2
Tomatoes	740	0			0.005 ^	1
TOTAL	**10,356**	**233**				
Methoprene (insect growth regulator)						
Blueberries	515	0			0.014 ^	NT
Blueberries, Frozen	13	0			0.014 ^	NT
Broccoli	554	0			0.048 ^	NT
Celery	526	0			0.014 - 0.048	NT
Green Onions	186	0			0.014 ^	NT
TOTAL	**1,794**	**0**				
Methoxychlor Total (insecticide)						
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT

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
Grape Juice	531	0			0.025 ^	NT
Green Onions	186	0			0.002 ^	NT
Strawberries	526	0			0.025 ^	NT
TOTAL	**2,851**	**0**				
Methoxychlor olefin (metabolite of Methoxychlor)						
Blueberries	515	0			0.001 ^	NT
Blueberries, Frozen	13	0			0.001 ^	NT
Broccoli	554	0			0.001 ^	NT
Celery	526	0			0.001 ^	NT
Green Onions	186	0			0.001 ^	NT
TOTAL	**1,794**	**0**				
Methoxychlor p,p' (isomer of Methoxychlor)						
Apple Juice	108	0			0.010 ^	NT
Asparagus	108	0			0.010 ^	NT
Blueberries	211	0			0.010 ^	NT
Blueberries, Frozen	5	0			0.010 ^	NT
Celery	215	0			0.010 ^	NT
Grape Juice	214	0			0.010 ^	NT
Green Beans	215	0			0.010 ^	NT
Greens, Collard (V-2)	2	2	100	0.017 ^	0.010 ^	NT
Greens, Kale (V-1)	1	1	100	0.017 ^	0.010 ^	NT
Kidney Beans, Canned	54	0			0.010 ^	NT
Peaches	616	0			0.010 - 0.011	NT
Potatoes	304	0			0.010 - 0.011	NT
Spinach	216	0			0.010 ^	NT
Strawberries	215	0			0.010 ^	NT
Summer Squash	158	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	184	0			0.010 - 0.025	NT
TOTAL	**2,880**	**3**				
Methoxyfenozide (insecticide)						
Apple Juice	372	6	1.6	0.002 - 0.018	0.001 - 0.020	1.5
Asparagus	108	0			0.001 ^	1.5
Blueberries	212	7	3.3	0.002 - 0.16	0.001 ^	3.0
Blueberries, Frozen	5	0			0.001 ^	3.0
Celery	258	130	50.4	0.002 - 0.25	0.001 ^	25
Grape Juice	745	92	12.3	0.002 - 0.033	0.001 - 0.002	1.0
Green Beans	741	18	2.4	0.002 - 0.13	0.001 - 0.010	1.5
Green Onions	186	7	3.8	0.006 - 0.019	0.003 ^	5.0
Greens, Collard	240	30	12.5	0.002 - 3.4	0.001 - 0.010	30
Greens, Kale	318	45	14.2	0.002 - 4.3	0.001 - 0.010	30
Kidney Beans, Canned	186	0			0.001 - 0.003	1.5
Peaches	616	92	14.9	0.002 - 0.18	0.001 - 0.003	3.0
Potatoes	744	0			0.001 - 0.003	0.10
Spinach	744	64	8.6	0.002 - 2.7	0.001 - 0.010	30
Strawberries	741	45	6.1	0.002 - 0.41	0.001 - 0.002	1.5
Summer Squash	158	0			0.001 ^	0.30
Sweet Corn, Fresh	152	0			0.001 - 0.040	0.05
Sweet Corn, Frozen	33	0			0.001 - 0.040	0.05
Sweet Potatoes	184	0			0.001 - 0.010	0.02
TOTAL	**6,743**	**536**				
Metolachlor (herbicide)						
Apple Juice	108	0			0.010 ^	NT
Asparagus	372	0			0.010 ^	0.10
Blueberries	726	0			0.001 - 0.010	NT
Blueberries, Frozen	18	0			0.001 - 0.010	NT
Broccoli	539	0			0.001 ^	0.6
Celery	741	10	1.3	0.002 ^	0.001 - 0.010	0.1

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
Grape Juice	745	0			0.010 ^	NT
Green Beans	741	0			0.010 - 0.015	0.5
Green Onions	186	0			0.001 ^	2.0
Greens, Collard	240	0			0.010 - 0.015	NT
Greens, Kale	318	0			0.010 - 0.015	NT
Kidney Beans, Canned	186	0			0.010 ^	0.5
Nectarines	672	0			0.023 ^	0.1
Peaches	616	0			0.010 ^	0.1
Potatoes	744	0			0.010 ^	0.2
Spinach	744	0			0.010 - 0.015	0.5
Strawberries	741	0			0.010 ^	NT
Summer Squash	158	0			0.010 ^	NT
Sweet Corn, Fresh	152	0			0.010 ^	0.1
Sweet Corn, Frozen	33	0			0.010 ^	0.1
Sweet Potatoes	184	0			0.010 - 0.015	0.2
Tomatoes	740	0			0.024 ^	0.1
TOTAL	**9,704**	**10**				
Metribuzin (herbicide)						
Asparagus	372	4	1.1	0.050 - 0.064	0.020 - 0.030	0.1
Blueberries	621	0			0.013 - 0.044	NT
Blueberries, Frozen	15	0			0.013 - 0.030	NT
Broccoli	538	0			0.013 - 0.044	NT
Celery	741	0			0.013 - 0.088	NT
Grape Juice	108	0			0.030 ^	NT
Green Beans	215	0			0.030 ^	NT
Green Onions	186	0			0.044 ^	NT
Kidney Beans, Canned	186	0			0.030 - 0.045	NT
Potatoes	744	0			0.030 - 0.045	0.6
Spinach	216	0			0.030 ^	NT
Strawberries	107	0			0.030 ^	NT
Summer Squash	158	0			0.030 ^	NT
Sweet Corn, Fresh	152	0			0.030 ^	0.05
Sweet Corn, Frozen	33	0			0.030 ^	0.05
Sweet Potatoes	54	0			0.030 ^	NT
TOTAL	**4,446**	**4**				
Mevinphos (insecticide)						
Apple Juice	108	0			0.001 ^	NT
Asparagus	108	0			0.001 ^	NT
Blueberries	726	0			0.001 - 0.002	NT
Blueberries, Frozen	18	0			0.001 - 0.002	NT
Broccoli	554	0			0.005 ^	1.0
Celery	741	0			0.001 - 0.002	1.0
Grape Juice	745	0			0.001 - 0.002	0.5
Green Beans	741	0			0.001 - 0.008	NT
Green Onions	186	0			0.005 ^	NT
Greens, Collard	160	0			0.008 ^	NT
Greens, Kale	236	0			0.008 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.010	NT
Peaches	377	0			0.001 - 0.010	NT
Potatoes	416	0			0.001 - 0.010	NT
Spinach	744	0			0.001 - 0.008	1.0
Strawberries	741	0			0.001 - 0.002	1.0
Summer Squash	554	0			0.001 - 0.004	0.25
Sweet Corn, Fresh	47	0			0.001 ^	NT
Sweet Corn, Frozen	7	0			0.001 ^	NT
Sweet Potatoes	184	0			0.001 - 0.025	NT
Tomatoes	740	0			0.003 ^	0.2
TOTAL	**8,319**	**0**				
MGK-264 (insecticide)						
Apple Juice	90	0			0.004 - 0.006	10
Asparagus	372	0			0.006 - 0.040	10

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
Blueberries	195	0			0.004 - 0.006	10
Blueberries, Frozen	4	0			0.006 ^	10
Grape Juice	196	0			0.004 - 0.006	10
Kidney Beans, Canned	54	0			0.006 ^	10
Potatoes	198	0			0.004 - 0.006	10
Spinach	198	0			0.004 - 0.006	10
Strawberries	197	0			0.004 - 0.006	10
Sweet Corn, Fresh	152	0			0.006 - 0.040	10
Sweet Corn, Frozen	33	0			0.006 - 0.040	10
Sweet Potatoes	54	0			0.006 ^	10
TOTAL	**1,743**	**0**				
Monocrotophos (insecticide)						
Asparagus	108	0			0.003 ^	NT
Grape Juice	531	0			0.002 ^	NT
Green Beans	526	0			0.008 ^	NT
Greens, Collard	160	0			0.008 ^	NT
Greens, Kale	236	0			0.008 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Potatoes	108	0			0.003 ^	NT
Spinach	636	0			0.003 - 0.008	NT
Strawberries	526	0			0.002 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**2,993**	**0**				
Myclobutanil (fungicide)						
Apple Juice	372	0			0.020 - 0.025	0.5
Asparagus	372	0			0.020 - 0.025	0.02
Blueberries	726	0			0.0006 - 0.020	NT
Blueberries, Frozen	18	0			0.0006 - 0.020	NT
Broccoli	554	1	0.2	0.003 ^	0.0006 - 0.002	0.03
Celery	741	34	4.6	0.001 - 0.019	0.0006 - 0.020	0.03
Grape Juice	745	2	0.3	0.0004 - 0.0006	0.0004 - 0.020	1.0
Green Beans	741	16	2.2	0.033 - 0.42	0.020 - 0.075	1.0
Green Onions	186	0			0.003 ^	NT
Greens, Collard	240	0			0.020 - 0.075	0.03
Greens, Kale (X-1)	318	1	0.3	2.6 ^	0.020 - 0.075	0.03
Kidney Beans, Canned	186	0			0.003 - 0.020	1.0
Nectarines	672	2	0.3	0.057 ^	0.034 ^	2.0
Peaches	616	25	4.1	0.002 - 0.058	0.001 - 0.020	2.0
Potatoes	744	0			0.001 - 0.020	0.03
Spinach	744	0			0.020 - 0.075	0.03
Strawberries (X-1)	741	247	33.3	0.0004 - 0.54	0.0004 - 0.020	0.50
Summer Squash	554	1	0.2	0.033 ^	0.020 - 0.025	0.20
Sweet Corn, Fresh	152	0			0.020 - 0.025	0.03
Sweet Corn, Frozen	33	0			0.020 - 0.025	0.03
Sweet Potatoes	140	0			0.015 - 0.020	0.03
Tomatoes	740	0			0.044 ^	0.30
TOTAL	**10,335**	**329**				
Naled (insecticide)						
Grape Juice	509	0			0.008 ^	0.5
Strawberries	482	1	0.2	0.012 ^	0.008 ^	1
TOTAL	**991**	**1**				
1-Naphthol (metabolite of Carbaryl)						
Apple Juice	372	0			0.010 - 0.20	10
Asparagus	264	0			0.20 ^	10
Blueberries	211	7	3.3	0.017 - 0.20	0.010 ^	10
Blueberries, Frozen	5	0			0.010 ^	10
Celery	37	1	2.7	0.045 ^	0.010 ^	10

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
Grape Juice	214	71	33.2	0.017 - 0.040	0.010 ^	10
Green Beans	482	0			0.10 ^	10
Greens, Collard	122	0			0.10 ^	12
Greens, Kale	160	0			0.10 ^	12
Kidney Beans, Canned	186	0			0.010 - 0.025	10
Peaches	615	50	8.1	0.017 - 1.2	0.010 ^	10
Potatoes	618	0			0.010 - 0.025	0.2
Spinach	506	0			0.10 ^	12
Strawberries	215	1	0.5	0.089 ^	0.010 ^	10
Sweet Corn, Fresh	152	0			0.010 - 0.20	5
Sweet Corn, Frozen	33	0			0.010 - 0.20	5
Sweet Potatoes	54	0			0.010 ^	NT
TOTAL	**4,246**	**130**				
Napropamide (herbicide)						
Apple Juice	372	0			0.020 - 0.066	0.1
Asparagus	372	0			0.020 - 0.066	0.1
Blueberries	726	0			0.007 - 0.020	0.1
Blueberries, Frozen	18	0			0.007 - 0.020	0.1
Broccoli	554	0			0.007 ^	0.1
Celery	741	0			0.007 - 0.020	NT
Grape Juice	745	0			0.020 ^	0.1
Green Beans	741	0			0.010 - 0.020	NT
Green Onions	186	0			0.007 ^	NT
Greens, Collard	240	0			0.010 - 0.020	0.1
Greens, Kale	318	0			0.010 - 0.020	0.1
Kidney Beans, Canned	54	0			0.020 ^	NT
Nectarines	672	0			0.040 ^	0.1
Peaches	616	0			0.020 ^	0.1
Potatoes	108	0			0.020 ^	NT
Spinach	744	0			0.010 - 0.020	NT
Strawberries	741	0			0.020 ^	0.1
Summer Squash	554	0			0.020 - 0.066	0.1
Sweet Corn, Fresh	47	0			0.020 ^	NT
Sweet Corn, Frozen	7	0			0.020 ^	NT
Sweet Potatoes	184	0			0.010 - 0.020	0.1
Tomatoes	740	0			0.040 ^	0.1
TOTAL	**9,480**	**0**				
Nicosulfuron (herbicide)						
Sweet Corn, Fresh	105	0			0.008 ^	0.1
Sweet Corn, Frozen	26	0			0.008 ^	0.1
TOTAL	**131**	**0**				
Nitrapyrin (nitrification inhibitor)						
Sweet Corn, Fresh	105	0			0.16 ^	0.1
Sweet Corn, Frozen	26	0			0.16 ^	0.1
TOTAL	**131**	**0**				
Norflurazon (herbicide)						
Apple Juice	108	0			0.020 ^	0.1
Asparagus	372	0			0.020 - 0.030	0.05
Blueberries	726	0			0.005 - 0.020	0.2
Blueberries, Frozen	18	0			0.005 - 0.020	0.2
Broccoli	554	0			0.005 - 0.067	NT
Celery	741	0			0.005 - 0.020	NT
Grape Juice	745	0			0.002 - 0.050	0.1
Green Beans	741	0			0.010 - 0.020	NT
Green Onions	186	0			0.005 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.020 ^	NT
Nectarines	672	0			0.069 ^	0.1

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
Peaches	616	0			0.020 ^	0.1
Potatoes	108	0			0.020 ^	NT
Spinach	744	0			0.010 - 0.020	NT
Strawberries	741	0			0.002 - 0.020	NT
Summer Squash	158	0			0.020 ^	NT
Sweet Corn, Fresh	47	0			0.020 ^	NT
Sweet Corn, Frozen	7	0			0.020 ^	NT
Sweet Potatoes	184	0			0.010 - 0.020	NT
TOTAL	**7,918**	**0**				
Norflurazon desmethyl (metabolite of Norflurazon)						
Apple Juice	108	0			0.030 ^	0.1
Asparagus	372	0			0.010 - 0.030	0.05
Blueberries	711	0			0.018 - 0.20	0.2
Blueberries, Frozen	18	0			0.018 - 0.20	0.2
Broccoli	539	0			0.018 - 0.25	NT
Celery	604	0			0.018 - 0.030	NT
Grape Juice	745	0			0.004 - 0.10	0.1
Green Beans	526	0			0.010 ^	NT
Green Onions	186	0			0.018 ^	NT
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.030 ^	NT
Nectarines	672	0			0.055 ^	0.1
Peaches	616	0			0.030 ^	0.1
Potatoes	108	0			0.030 ^	NT
Spinach	636	0			0.010 - 0.030	NT
Strawberries	723	0			0.004 - 0.030	NT
Sweet Corn, Fresh	47	0			0.030 ^	NT
Sweet Corn, Frozen	7	0			0.030 ^	NT
Sweet Potatoes	184	0			0.010 - 0.10	NT
TOTAL	**7,252**	**0**				
Novaluron (insecticide)						
Peaches	436	0			0.015 ^	NT
Potatoes	286	0			0.015 ^	0.05
Sweet Potatoes	130	0			0.010 ^	0.05
TOTAL	**852**	**0**				
Omethoate (insecticide) (also a metabolite of Dimethoate)						
Apple Juice	372	0			0.003 - 0.016	2
Asparagus	372	0			0.003 - 0.048	0.15
Blueberries	726	4	0.6	0.005 - 0.15	0.002 - 0.003	1
Blueberries, Frozen	18	0			0.002 - 0.003	1
Broccoli	554	13	2.3	0.004 - 0.062	0.002 ^	2
Celery	741	129	17.4	0.004 - 0.11	0.002 - 0.003	2
Grape Juice	745	0			0.003 - 0.024	1
Green Beans	741	27	3.6	0.005 - 0.10	0.003 - 0.008	2
Green Onions	186	0			0.002 ^	NT
Greens, Collard	240	0			0.004 - 0.17	2
Greens, Kale	318	2	0.6	0.083 ^	0.004 - 0.050	2
Kidney Beans, Canned	186	0			0.003 - 0.020	2
Peaches	377	0			0.003 - 0.020	NT
Potatoes	744	0			0.003 - 0.020	0.2
Spinach	744	35	4.7	0.005 - 0.53	0.003 - 0.025	2
Strawberries	719	0			0.003 - 0.024	NT
Summer Squash (V-1)	158	1	0.6	0.020 ^	0.003 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	184	0			0.003 - 0.010	NT
Tomatoes	740	4	0.5	0.043 ^	0.026 ^	2
TOTAL	**8,919**	**215**				

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
Oryzalin (herbicide)						
Grape Juice	531	0			0.007 ^	0.05
Green Beans	526	0			0.020 ^	NT
Greens, Collard	160	0			0.020 ^	NT
Greens, Kale	236	0			0.020 ^	NT
Spinach	528	0			0.020 ^	NT
Strawberries	526	0			0.007 ^	0.05
Sweet Potatoes	130	0			0.020 ^	NT
TOTAL	**2,637**	**0**				
Oxadixyl (fungicide)						
Apple Juice	108	0			0.008 ^	NT
Asparagus	108	0			0.015 ^	NT
Blueberries	726	0			0.008 - 0.015	NT
Blueberries, Frozen	18	0			0.008 - 0.015	NT
Broccoli	554	0			0.013 ^	NT
Celery	741	0			0.008 - 0.015	NT
Grape Juice	214	0			0.008 - 0.015	NT
Green Beans	215	0			0.008 - 0.015	NT
Green Onions	186	0			0.013 ^	NT
Kidney Beans, Canned	54	0			0.015 ^	NT
Peaches	180	0			0.008 - 0.015	NT
Potatoes	216	0			0.008 - 0.016	NT
Spinach	216	0			0.008 - 0.015	NT
Strawberries	215	0			0.008 - 0.015	NT
Summer Squash	158	0			0.008 - 0.015	NT
Sweet Corn, Fresh	47	0			0.015 ^	NT
Sweet Corn, Frozen	7	0			0.015 ^	NT
Sweet Potatoes	184	0			0.010 - 0.015	NT
TOTAL	**4,147**	**0**				
Oxamyl (insecticide)						
Apple Juice	372	0			0.008 - 0.020	2
Asparagus	108	0			0.008 ^	NT
Blueberries (V-1)	726	1	0.1	0.003 ^	0.002 - 0.008	NT
Blueberries, Frozen	18	0			0.002 - 0.008	NT
Broccoli	554	0			0.006 ^	NT
Celery	741	121	16.3	0.006 - 0.096	0.006 - 0.008	10.0
Grape Juice	610	0			0.008 - 0.010	NT
Green Beans (V-4)	741	4	0.5	0.014 - 0.15	0.008 - 0.010	NT
Green Onions	186	0			0.002 ^	0.2
Greens, Collard (V-1)	160	1	0.6	0.042 ^	0.010 ^	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.008	NT
Peaches	377	0			0.003 - 0.008	NT
Potatoes	744	3	0.4	0.005 - 0.007	0.001 - 0.008	0.1
Spinach	744	0			0.008 - 0.010	NT
Strawberries	697	0			0.008 - 0.010	NT
Summer Squash	554	24	4.3	0.010 - 1.5	0.006 - 0.008	2.0
Sweet Corn, Fresh	47	0			0.008 ^	NT
Sweet Corn, Frozen	7	0			0.008 ^	NT
Sweet Potatoes	184	0			0.008 - 0.010	0.1
Tomatoes	740	2	0.3	0.042 ^	0.025 ^	2
TOTAL	**8,732**	**156**				
Oxamyl oxime (metabolite of Oxamyl)						
Apple Juice	108	0			0.010 ^	2
Asparagus	108	0			0.010 ^	NT
Blueberries	211	0			0.010 ^	NT
Blueberries, Frozen	5	0			0.010 ^	NT
Celery	215	25	11.6	0.017 - 0.037	0.010 ^	10.0
Grape Juice	745	0			0.010 - 0.014	NT
Green Beans	215	0			0.010 ^	NT

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
Kidney Beans, Canned	186	0			0.003 - 0.010	NT
Peaches	377	0			0.003 - 0.010	NT
Potatoes	744	3	0.4	0.002 - 0.009	0.001 - 0.010	0.1
Spinach	216	0			0.010 ^	NT
Strawberries	741	0			0.010 - 0.014	NT
Summer Squash	158	3	1.9	0.017 - 0.34	0.010 ^	2.0
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	184	0			0.010 ^	0.1
TOTAL	**4,267**	**31**				
Oxychlordane (metabolite of Chlordane)						
Blueberries	500	0			0.002 - 0.008	0.1
Blueberries, Frozen	13	0			0.002 ^	0.1
Broccoli	537	0			0.002 ^	0.1
Celery	526	0			0.002 ^	0.1
Green Onions	186	0			0.002 - 0.008	0.1
TOTAL	**1,762**	**0**				
Oxydemeton methyl (insecticide)						
Grape Juice	531	0			0.012 ^	NT
Green Beans	504	0			0.010 ^	NT
Strawberries	526	0			0.012 ^	2.0
Sweet Corn, Fresh	105	0			0.008 ^	0.5
Sweet Corn, Frozen	26	0			0.008 ^	0.5
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**1,822**	**0**				
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)						
Apple Juice	108	0			0.004 ^	NT
Asparagus	108	0			0.004 - 0.005	NT
Blueberries	726	0			0.004 - 0.012	NT
Blueberries, Frozen	18	0			0.004 - 0.012	NT
Celery	741	0			0.004 - 0.012	NT
Grape Juice	745	0			0.004 - 0.010	NT
Green Beans	740	0			0.004 - 0.010	NT
Green Onions	186	0			0.040 ^	0.05
Greens, Collard	160	0			0.010 ^	NT
Greens, Kale (V-2)	236	2	0.8	0.012 - 0.28	0.010 ^	NT
Kidney Beans, Canned	186	0			0.005 - 0.050	NT
Peaches	377	0			0.004 - 0.050	NT
Potatoes	416	0			0.004 - 0.050	NT
Spinach	744	0			0.004 - 0.014	NT
Strawberries	741	0			0.004 - 0.010	2.0
Summer Squash	554	0			0.004 - 0.012	1
Sweet Corn, Fresh	152	0			0.005 - 0.008	0.5
Sweet Corn, Frozen	33	0			0.005 - 0.008	0.5
Sweet Potatoes	184	0			0.005 - 0.010	NT
TOTAL	**7,155**	**2**				
Oxyfluorfen (herbicide)						
Apple Juice	372	0			0.030 ^	0.05
Asparagus	108	0			0.030 ^	NT
Blueberries	726	0			0.003 - 0.030	NT
Blueberries, Frozen	18	0			0.003 - 0.030	NT
Broccoli	554	0			0.003 ^	0.05
Celery	526	0			0.003 - 0.010	NT
Grape Juice	745	0			0.013 - 0.030	0.05
Green Onions	186	0			0.003 ^	0.05
Kidney Beans, Canned	54	0			0.030 ^	NT
Nectarines	672	0			0.037 ^	0.05
Peaches	180	0			0.030 ^	0.05
Potatoes	108	0			0.030 ^	NT

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
Spinach	108	0			0.030 ^	NT
Strawberries	741	0			0.013 - 0.030	NT
Sweet Corn, Fresh	47	0			0.030 ^	NT
Sweet Corn, Frozen	7	0			0.030 ^	NT
Sweet Potatoes	54	0			0.030 ^	NT
TOTAL	**5,206**	**0**				
Parathion (insecticide)						
Asparagus	108	0			0.002 ^	NT
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	554	0			0.010 ^	NT
Celery	526	0			0.003 ^	NT
Grape Juice	531	0			0.003 ^	NT
Green Beans	526	0			0.008 ^	NT
Green Onions	186	0			0.010 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	636	0			0.002 - 0.008	NT
Strawberries	526	0			0.003 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.040	1.0
Sweet Corn, Frozen	33	0			0.002 - 0.040	1.0
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**4,522**	**0**				
Parathion methyl (insecticide)						
Apple Juice	108	0			0.001 ^	NT
Asparagus	108	0			0.001 - 0.002	NT
Blueberries	726	0			0.001 - 0.002	NT
Blueberries, Frozen	18	0			0.001 - 0.002	NT
Broccoli	538	0			0.008 - 0.017	NT
Celery	741	0			0.001 - 0.002	NT
Grape Juice	745	0			0.001 - 0.003	NT
Green Beans	741	0			0.001 - 0.004	NT
Green Onions	186	0			0.008 ^	1.0
Greens, Collard	160	0			0.004 ^	NT
Greens, Kale	236	0			0.004 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	NT
Peaches (V-1)	396	1	0.3	0.002 ^	0.001 - 0.014	NT
Potatoes	744	0			0.001 - 0.014	0.1
Spinach	744	0			0.001 - 0.004	NT
Strawberries	215	0			0.001 ^	NT
Summer Squash	158	0			0.001 ^	NT
Sweet Corn, Fresh	152	0			0.001 - 0.080	1.0
Sweet Corn, Frozen	33	0			0.001 - 0.080	1.0
Sweet Potatoes	54	0			0.002 ^	0.1
TOTAL	**6,989**	**1**				
Parathion methyl oxygen analog (metabolite of Parathion methyl)						
Apple Juice	108	0			0.002 ^	NT
Asparagus	108	0			0.002 ^	NT
Blueberries	726	0			0.002 - 0.005	NT
Blueberries, Frozen	18	0			0.002 - 0.005	NT
Broccoli	554	0			0.005 ^	NT
Celery	741	0			0.002 - 0.005	NT
Grape Juice	214	0			0.002 ^	NT
Green Beans	215	0			0.002 ^	NT
Green Onions	186	0			0.005 ^	1.0
Kidney Beans, Canned	186	0			0.002 - 0.020	NT
Peaches	377	0			0.002 - 0.020	NT
Potatoes	744	0			0.002 - 0.020	0.1
Spinach	216	0			0.002 ^	NT
Strawberries	215	0			0.002 ^	NT

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
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.032	1.0
Sweet Corn, Frozen	33	0			0.002 - 0.032	1.0
Sweet Potatoes	54	0			0.002 ^	0.1
TOTAL	**5,005**	**0**				
Parathion oxygen analog (metabolite of Parathion)						
Asparagus	108	0			0.005 ^	NT
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	554	0			0.003 ^	NT
Celery	526	0			0.003 ^	NT
Green Onions	186	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.005 ^	NT
Peaches	197	0			0.005 ^	NT
Potatoes	416	0			0.005 ^	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	1.0
Sweet Corn, Frozen	7	0			0.005 ^	1.0
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**2,917**	**0**				
Pendimethalin (herbicide)						
Apple Juice	372	0			0.020 - 0.050	0.1
Asparagus	372	0			0.020 - 0.050	0.15
Blueberries	211	0			0.020 ^	NT
Blueberries, Frozen	5	0			0.020 ^	NT
Celery	215	0			0.020 ^	NT
Grape Juice	745	0			0.020 ^	0.1
Green Beans	741	0			0.015 - 0.020	0.10
Green Onions	186	0			0.002 ^	0.20
Greens, Collard (V-4)	164	4	2.4	0.033 - 0.10	0.015 - 0.020	NT
Greens, Kale (V-4)	236	4	1.7	0.038 - 0.061	0.015 ^	NT
Kidney Beans, Canned	54	0			0.020 ^	0.10
Peaches	180	0			0.020 ^	0.1
Potatoes	216	0			0.020 ^	0.1
Spinach	744	0			0.015 - 0.020	NT
Strawberries	719	0			0.020 ^	0.10
Summer Squash	158	0			0.020 ^	NT
Sweet Corn, Fresh	152	0			0.020 - 0.050	0.1
Sweet Corn, Frozen	33	0			0.020 - 0.050	0.1
Sweet Potatoes	162	0			0.015 - 0.020	NT
Tomatoes	740	0			0.022 ^	0.10
TOTAL	**6,405**	**8**				
Pentachloroaniline - PCA (metabolite of Quintozene)						
Blueberries	515	0			0.001 ^	NT
Blueberries, Frozen	13	0			0.001 ^	NT
Broccoli	554	0			0.001 ^	0.1
Celery	526	0			0.001 ^	NT
Green Beans	526	0			0.030 ^	0.1
Green Onions (V-1)	186	1	0.5	0.002 ^	0.001 ^	NT
Greens, Collard	160	0			0.030 ^	0.2
Greens, Kale	236	0			0.030 ^	0.2
Kidney Beans, Canned	132	0			0.010 ^	0.1
Potatoes	528	5	0.9	0.016 - 0.047	0.010 ^	0.1
Spinach	528	0			0.030 ^	NT
Sweet Potatoes	130	0			0.030 ^	NT
Tomatoes	740	0			0.003 ^	0.1
TOTAL	**4,774**	**6**				
Pentachlorobenzene - PCB (metabolite of Quintozene)						
Asparagus	108	0			0.002 ^	0.1
Blueberries	621	0			0.002 ^	NT

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
Blueberries, Frozen	15	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	0.1
Celery	741	0			0.002 ^	NT
Grape Juice	108	0			0.002 ^	NT
Green Beans	676	0			0.002 - 0.005	0.1
Green Onions	154	0			0.002 - 0.006	NT
Greens, Collard	240	0			0.002 - 0.005	0.2
Greens, Kale	318	0			0.002 - 0.005	0.2
Kidney Beans, Canned	186	0			0.002 ^	0.1
Peaches	216	0			0.003 ^	NT
Potatoes	524	13	2.5	0.003 - 0.028	0.002 - 0.003	0.1
Spinach	744	0			0.002 - 0.005	NT
Strawberries	107	0			0.002 ^	NT
Summer Squash (V-1)	158	1	0.6	0.015 ^	0.002 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	184	0			0.002 - 0.005	NT
Tomatoes	740	0			0.003 ^	0.1
TOTAL	**6,448**	**14**				
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)						
Blueberries	515	0			0.001 ^	NT
Blueberries, Frozen	13	0			0.001 ^	NT
Broccoli	554	0			0.001 ^	0.1
Celery	526	0			0.001 ^	NT
Green Beans	526	0			0.005 ^	0.1
Green Onions	186	0			0.001 ^	NT
Greens, Collard	160	0			0.005 ^	0.2
Greens, Kale	236	0			0.005 ^	0.2
Kidney Beans, Canned	132	0			0.010 ^	0.1
Potatoes	528	3	0.6	0.016 ^	0.010 ^	0.1
Spinach	528	0			0.005 ^	NT
Sweet Potatoes	130	0			0.005 ^	NT
Tomatoes	740	0			0.003 ^	0.1
TOTAL	**4,774**	**3**				
Permethrin Total (insecticide)						
Apple Juice	264	0			0.050 ^	0.05
Asparagus	264	0			0.050 ^	2.0
Green Beans	526	0			0.10 ^	NT
Greens, Collard	160	24	15	0.19 - 9.7	0.10 ^	15.0
Greens, Kale (V-12)	236	12	5.1	0.37 - 8.0	0.10 ^	NT
Spinach	528	278	52.7	0.11 - 13	0.10 ^	20
Summer Squash	396	0			0.050 ^	1.5
Sweet Corn, Fresh	105	0			0.050 ^	0.10
Sweet Corn, Frozen	26	0			0.050 ^	0.10
Sweet Potatoes	130	0			0.10 ^	NT
TOTAL	**2,635**	**314**				
Permethrin cis (isomer of Permethrin)						
Apple Juice	108	0			0.004 - 0.015	0.05
Asparagus	108	0			0.015 ^	2.0
Blueberries	726	0			0.002 - 0.015	NT
Blueberries, Frozen	18	0			0.002 - 0.015	NT
Broccoli	554	14	2.5	0.010 - 0.077	0.002 ^	2.0
Celery	741	289	39	0.004 - 0.20	0.002 - 0.024	5.0
Grape Juice	745	0			0.004 - 0.015	NT
Green Beans (V-1)	215	1	0.5	0.025 ^	0.012 - 0.015	NT
Green Onions (V-2)	186	2	1.1	0.016 - 0.019	0.002 - 0.008	NT
Greens, Collard	80	2	2.5	0.020 - 0.16	0.012 ^	15.0
Greens, Kale (V-1)	82	1	1.2	0.045 ^	0.012 ^	NT
Kidney Beans, Canned	186	0			0.012 - 0.015	NT
Nectarines (V-1)	672	1	0.1	0.13 ^	0.024 ^	NT

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
Peaches	616	7	1.1	0.020 ^	0.012 ^	1.0
Potatoes	744	0			0.004 - 0.015	0.05
Spinach	216	101	46.8	0.022 - 4.9	0.004 - 0.015	20
Strawberries	741	0			0.004 - 0.015	NT
Summer Squash	158	0			0.012 ^	1.5
Sweet Corn, Fresh	47	0			0.015 ^	0.10
Sweet Corn, Frozen	7	0			0.015 ^	0.10
Sweet Potatoes	54	0			0.015 ^	NT
Tomatoes	740	49	6.6	0.013 - 0.082	0.008 ^	2.0
TOTAL	**7,744**	**467**				
Permethrin trans (isomer of Permethrin)						
Apple Juice	108	0			0.004 - 0.015	0.05
Asparagus	108	0			0.015 ^	2.0
Blueberries	726	0			0.002 - 0.015	NT
Blueberries, Frozen	18	0			0.002 - 0.015	NT
Broccoli	554	14	2.5	0.004 - 0.074	0.002 ^	2.0
Celery	741	311	42	0.004 - 0.19	0.002 - 0.015	5.0
Grape Juice	745	0			0.004 - 0.015	NT
Green Beans	215	0			0.012 - 0.015	NT
Green Onions (V-2)	186	2	1.1	0.015 - 0.019	0.008 ^	NT
Greens, Collard	80	2	2.5	0.020 - 0.19	0.012 ^	15.0
Greens, Kale (V-1)	82	1	1.2	0.020 ^	0.012 ^	NT
Kidney Beans, Canned	186	0			0.013 - 0.015	NT
Nectarines (V-1)	672	1	0.1	0.15 ^	0.023 ^	NT
Peaches	616	8	1.3	0.020 - 0.052	0.012 ^	1.0
Potatoes	744	0			0.004 - 0.015	0.05
Spinach	216	102	47.2	0.007 - 5.1	0.004 - 0.015	20
Strawberries	741	0			0.004 - 0.015	NT
Summer Squash	158	0			0.012 ^	1.5
Sweet Corn, Fresh	47	0			0.015 ^	0.10
Sweet Corn, Frozen	7	0			0.015 ^	0.10
Sweet Potatoes	54	0			0.015 ^	NT
Tomatoes	740	51	6.9	0.013 - 0.099	0.008 ^	2.0
TOTAL	**7,744**	**492**				
Phenothrin (insecticide)						
Apple Juice	108	0			0.003 - 0.006	NT
Asparagus	372	0			0.006 - 0.040	NT
Blueberries	211	0			0.003 - 0.006	NT
Blueberries, Frozen	5	0			0.003 - 0.006	NT
Celery	38	0			0.015 ^	NT
Grape Juice	745	0			0.003 - 0.020	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.015 - 0.025	NT
Potatoes	436	0			0.003 - 0.025	NT
Spinach	744	0			0.003 - 0.075	NT
Strawberries	741	0			0.003 - 0.020	NT
Sweet Corn, Fresh	138	0			0.015 - 0.20	NT
Sweet Corn, Frozen	29	0			0.015 - 0.20	NT
Sweet Potatoes	184	0			0.015 - 0.075	NT
TOTAL	**4,123**	**0**				
Phenthoate (insecticide)						
Blueberries	515	0			0.006 ^	NT
Blueberries, Frozen	13	0			0.006 ^	NT
Broccoli	544	0			0.006 ^	NT
Celery	526	0			0.006 ^	NT
Green Onions	186	0			0.006 ^	NT
TOTAL	**1,784**	**0**				
o-Phenylphenol (fungicide)						
Apple Juice	372	0			0.010 - 0.040	25
Blueberries (V-3)	603	3	0.5	0.005 - 0.012	0.003 - 0.010	NT

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
Blueberries, Frozen	15	0			0.003 - 0.010	NT
Broccoli	554	0			0.003 ^	NT
Celery (V-4)	629	4	0.6	0.043 - 0.060	0.003 - 0.010	NT
Grape Juice	652	0			0.010 ^	NT
Green Beans (V-1)	598	1	0.2	0.017 ^	0.010 - 0.015	NT
Greens, Collard (V-7)	222	7	3.2	0.017 ^	0.010 - 0.015	NT
Greens, Kale (V-7)	300	7	2.3	0.017 ^	0.010 - 0.015	NT
Kidney Beans, Canned	36	0			0.010 ^	NT
Nectarines	672	9	1.3	0.020 - 0.051	0.012 ^	5
Peaches	547	89	16.3	0.017 - 0.038	0.010 ^	20
Potatoes (V-41)	354	41	11.6	0.017 - 0.034	0.010 ^	NT
Spinach	600	0			0.010 - 0.015	NT
Strawberries	612	0			0.010 ^	NT
Summer Squash (V-11)	108	11	10.2	0.037 - 0.079	0.010 ^	NT
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	58	0			0.010 - 0.015	15
Tomatoes	740	24	3.2	0.020 - 0.14	0.012 ^	10
TOTAL	**7,726**	**196**				
Phorate (insecticide)						
Asparagus	108	0			0.002 ^	0.05
Blueberries	621	0			0.002 ^	NT
Blueberries, Frozen	15	0			0.002 ^	NT
Broccoli	554	0			0.002 - 0.006	NT
Celery	741	0			0.002 ^	NT
Grape Juice	639	0			0.002 - 0.018	NT
Green Beans	741	0			0.002 - 0.004	0.1
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.020	0.05
Peaches	197	0			0.020 ^	NT
Potatoes	744	0			0.002 - 0.020	0.5
Spinach	743	0			0.002 - 0.004	NT
Strawberries	633	0			0.002 - 0.018	NT
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.10	0.05
Sweet Corn, Frozen	33	0			0.002 - 0.10	0.05
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**6,505**	**0**				
Phorate oxygen analog (metabolite of Phorate)						
Asparagus	108	0			0.002 ^	0.05
Blueberries	515	0			0.001 ^	NT
Blueberries, Frozen	13	0			0.001 ^	NT
Celery	526	0			0.001 ^	NT
Green Onions	186	0			0.001 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	0.05
Peaches	197	0			0.010 ^	NT
Potatoes	416	0			0.002 - 0.010	0.5
Spinach	108	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.080	0.05
Sweet Corn, Frozen	33	0			0.002 - 0.080	0.05
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**2,494**	**0**				
Phorate sulfone (metabolite of Phorate)						
Asparagus	108	0			0.002 ^	0.05
Blueberries	621	0			0.002 - 0.003	NT
Blueberries, Frozen	15	0			0.002 - 0.003	NT
Broccoli	554	0			0.003 ^	NT
Celery	741	0			0.002 - 0.003	NT
Grape Juice	639	0			0.002 - 0.012	NT
Green Beans	741	0			0.002 - 0.012	0.1

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
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	0.05
Peaches	197	0			0.010 ^	NT
Potatoes	744	8	1.1	0.003 - 0.027	0.002 - 0.010	0.5
Spinach	744	0			0.002 - 0.012	NT
Strawberries	633	0			0.002 - 0.012	NT
Summer Squash	158	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.080	0.05
Sweet Corn, Frozen	33	0			0.002 - 0.080	0.05
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**6,506**	**8**				
Phorate sulfoxide (metabolite of Phorate)						
Asparagus	108	0			0.015 ^	0.05
Blueberries	515	0			0.009 ^	NT
Blueberries, Frozen	13	0			0.009 ^	NT
Broccoli	554	0			0.009 ^	NT
Celery	526	0			0.009 ^	NT
Green Beans	526	0			0.012 ^	0.1
Kidney Beans, Canned	186	0			0.009 - 0.010	0.05
Peaches	197	0			0.010 ^	NT
Potatoes	636	6	0.9	0.010 - 0.061	0.006 - 0.015	0.5
Spinach	636	0			0.009 - 0.015	NT
Sweet Corn, Fresh	152	0			0.009 - 0.010	0.05
Sweet Corn, Frozen	33	0			0.009 - 0.010	0.05
Sweet Potatoes	54	0			0.009 ^	NT
TOTAL	**4,136**	**6**				
Phosalone (insecticide)						
Apple Juice	372	0			0.003 - 0.010	10.0
Asparagus	108	0			0.003 ^	NT
Blueberries	726	0			0.002 - 0.003	NT
Blueberries, Frozen	18	0			0.002 - 0.003	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Grape Juice	745	0			0.0008 - 0.003	10.0
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.010	NT
Peaches	616	4	0.6	0.005 ^	0.003 - 0.010	15.0
Potatoes	416	0			0.003 - 0.010	NT
Spinach	108	0			0.003 ^	NT
Strawberries	741	0			0.0008 - 0.003	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	184	0			0.003 - 0.050	NT
TOTAL	**5,540**	**4**				
Phosalone oxygen analog (metabolite of Phosalone)						
Asparagus	108	0			0.006 ^	NT
Potatoes	108	0			0.006 ^	NT
Spinach	108	0			0.006 ^	NT
TOTAL	**324**	**0**				
Phosmet (insecticide)						
Apple Juice	108	2	1.9	0.005 ^	0.003 ^	10
Asparagus	372	0			0.003 - 0.013	NT
Blueberries	726	84	11.6	0.005 - 0.68	0.003 - 0.005	10
Blueberries, Frozen	18	4	22.2	0.008 - 0.44	0.003 - 0.005	10
Broccoli	554	0			0.005 ^	NT
Celery	741	0			0.003 - 0.005	NT
Grape Juice	745	81	10.9	0.0006 - 0.011	0.0006 - 0.003	10
Green Beans	741	0			0.003 - 0.008	NT
Green Onions	186	0			0.005 ^	NT

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
Greens, Collard (V-1)	160	1	0.6	0.13 ^	0.008 ^	NT
Greens, Kale	236	0			0.008 ^	NT
Kidney Beans, Canned	186	0			0.003 - 0.010	NT
Nectarines	672	218	32.4	0.005 - 0.43	0.003 ^	5
Peaches	616	189	30.7	0.005 - 0.82	0.003 - 0.005	10
Potatoes	744	0			0.003 - 0.010	0.1
Spinach (V-1)	743	1	0.1	0.012 ^	0.003 - 0.008	NT
Strawberries	741	0			0.0006 - 0.003	NT
Summer Squash	158	0			0.003 ^	NT
Sweet Corn, Fresh	152	0			0.003 - 0.013	NT
Sweet Corn, Frozen	33	0			0.003 - 0.013	NT
Sweet Potatoes	184	2	1.1	0.038 - 0.19	0.003 - 0.025	10
TOTAL	**8,816**	**582**				
Phosmet oxygen analog (metabolite of Phosmet)						
Asparagus	264	0			0.010 ^	NT
Sweet Corn, Fresh	105	0			0.010 ^	NT
Sweet Corn, Frozen	26	0			0.010 ^	NT
TOTAL	**395**	**0**				
Phosphamidon (insecticide)						
Asparagus	108	0			0.005 ^	NT
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	554	0			0.003 ^	NT
Celery	526	0			0.003 ^	NT
Green Beans	526	0			0.015 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Potatoes	108	0			0.005 ^	NT
Spinach	636	0			0.005 - 0.015	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**3,334**	**0**				
Picloram (herbicide)						
Potatoes	744	0			0.050 ^	NT
Spinach	744	0			0.050 ^	NT
TOTAL	**1,488**	**0**				
Piperonyl butoxide (insecticide)						
Apple Juice	372	0			0.002 - 0.025	10
Asparagus	372	0			0.003 - 0.025	10
Blueberries	712	0			0.002 - 0.010	10
Blueberries, Frozen	18	0			0.003 - 0.010	10
Broccoli	538	0			0.005 ^	10
Celery	741	9	1.2	0.008 - 0.13	0.005 - 0.010	10
Grape Juice	745	0			0.002 - 0.015	10
Green Beans	741	0			0.010 - 0.015	10
Green Onions	186	4	2.2	0.008 ^	0.005 ^	10
Greens, Collard	240	4	1.7	0.017 ^	0.010 - 0.015	10
Greens, Kale	318	0			0.010 - 0.015	10
Kidney Beans, Canned	186	0			0.010 - 0.023	10
Peaches	454	1	0.2	0.017 ^	0.010 ^	10
Potatoes	744	0			0.002 - 0.023	10
Spinach	744	1	0.1	0.079 ^	0.002 - 0.015	10
Strawberries	741	8	1.1	0.005 - 0.35	0.002 - 0.015	10
Summer Squash	554	1	0.2	0.017 ^	0.010 - 0.025	10
Sweet Corn, Fresh	152	0			0.010 - 0.025	20
Sweet Corn, Frozen	33	0			0.010 - 0.025	20
Sweet Potatoes	184	1	0.5	0.096 ^	0.010 - 0.015	10
Tomatoes	740	21	2.8	0.020 - 0.32	0.012 ^	10
TOTAL	**9,515**	**50**				

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
Pirimicarb (insecticide)						
Blueberries (V-1)	515	1	0.2	0.15 ^	0.010 ^	NT
Blueberries, Frozen	13	0			0.010 ^	NT
Broccoli	554	0			0.010 ^	NT
Celery	526	0			0.010 ^	NT
Green Beans	526	0			0.005 ^	NT
Green Onions	186	0			0.010 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale	236	0			0.005 ^	NT
Spinach	528	0			0.005 ^	NT
Sweet Potatoes	130	0			0.005 ^	NT
TOTAL	**3,374**	**1**				
Pirimiphos methyl (insecticide)						
Asparagus	108	0			0.002 ^	NT
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Green Beans	526	0			0.004 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	635	0			0.002 - 0.004	NT
Sweet Corn, Fresh	152	0			0.002 - 0.020	NT
Sweet Corn, Frozen	33	0			0.002 - 0.020	NT
Sweet Potatoes	184	0			0.002 - 0.013	NT
TOTAL	**3,594**	**0**				
Prallethrin (insecticide)						
Apple Juice	372	0			0.003 - 0.033	1.0
Asparagus	372	0			0.009 - 0.033	1.0
Blueberries	211	0			0.003 - 0.009	1.0
Blueberries, Frozen	5	0			0.003 - 0.009	1.0
Celery	215	0			0.010 ^	1.0
Grape Juice	745	0			0.003 - 0.050	1.0
Green Beans	741	0			0.010 ^	1.0
Greens, Collard	240	0			0.010 ^	1.0
Greens, Kale	318	0			0.010 ^	1.0
Kidney Beans, Canned	186	0			0.002 - 0.010	1.0
Nectarines	672	0			0.031 ^	1.0
Peaches	616	0			0.001 - 0.010	1.0
Potatoes	744	0			0.001 - 0.009	1.0
Spinach	744	0			0.009 - 0.010	1.0
Strawberries	741	0			0.003 - 0.050	1.0
Summer Squash	554	0			0.010 - 0.033	1.0
Sweet Corn, Fresh	152	0			0.010 - 0.033	1.0
Sweet Corn, Frozen	33	0			0.010 - 0.033	1.0
Sweet Potatoes	184	0			0.010 ^	1.0
Tomatoes	740	0			0.031 ^	1.0
TOTAL	**8,585**	**0**				
Procymidone (fungicide)						
Grape Juice	531	0			0.010 ^	5.0
Strawberries	526	0			0.010 ^	NT
TOTAL	**1,057**	**0**				
Profenofos (insecticide)						
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT

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
Green Beans	526	0			0.011 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	132	0			0.010 ^	NT
Peaches	197	0			0.010 ^	NT
Potatoes	308	0			0.010 ^	NT
Spinach	528	0			0.011 ^	NT
TOTAL	**3,485**	**0**				
Prometryn (herbicide)						
Apple Juice	108	0			0.010 ^	NT
Asparagus	108	0			0.010 ^	NT
Blueberries	713	0			0.007 - 0.010	NT
Blueberries, Frozen	16	0			0.007 - 0.010	NT
Broccoli	554	0			0.007 ^	NT
Celery	741	0			0.007 - 0.010	0.5
Grape Juice	214	0			0.010 ^	NT
Green Beans	215	0			0.010 ^	NT
Green Onions	186	0			0.007 ^	NT
Greens, Kale (V-1)	1	1	100	0.017 ^	0.010 ^	NT
Kidney Beans, Canned	54	0			0.010 ^	NT
Peaches	180	0			0.010 ^	NT
Potatoes	216	0			0.010 ^	NT
Spinach	216	0			0.010 ^	NT
Strawberries	215	0			0.010 ^	NT
Summer Squash	158	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	54	0			0.010 ^	NT
TOTAL	**4,003**	**1**				
Pronamide (herbicide)						
Apple Juice	372	0			0.008 - 0.060	0.1
Asparagus	108	0			0.008 ^	NT
Blueberries	726	0			0.006 - 0.008	0.05
Blueberries, Frozen	18	0			0.006 - 0.008	0.05
Broccoli (V-1)	554	1	0.2	0.010 ^	0.006 ^	NT
Celery (V-2)	526	2	0.4	0.010 ^	0.006 ^	NT
Grape Juice	745	0			0.008 - 0.015	0.1
Green Onions	186	0			0.006 ^	NT
Greens, Kale (V-4)	4	4	100	0.013 - 0.046	0.008 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.008	NT
Nectarines	672	0			0.014 ^	0.1
Peaches	616	0			0.002 - 0.008	0.1
Potatoes	416	0			0.001 - 0.008	NT
Spinach (V-1)	109	1	0.9	0.013 ^	0.008 ^	NT
Strawberries	697	0			0.008 - 0.015	NT
Sweet Corn, Fresh	47	0			0.008 ^	NT
Sweet Corn, Frozen	7	0			0.008 ^	NT
Sweet Potatoes	184	0			0.008 - 0.025	NT
TOTAL	**6,173**	**8**				
Propamocarb hydrochloride (fungicide)						
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**130**	**0**				
Propargite (insecticide)						
Apple Juice	108	0			0.004 ^	NT
Asparagus	108	0			0.004 ^	NT
Blueberries	726	0			0.004 - 0.026	NT
Blueberries, Frozen	18	0			0.004 - 0.026	NT
Broccoli	554	0			0.026 ^	NT
Celery	526	0			0.026 ^	NT
Grape Juice	701	0			0.004 - 0.030	10.0

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
Green Beans (V-2)	2	2	100	0.006 ^	0.004 ^	NT
Green Onions	186	0			0.026 - 0.088	NT
Kidney Beans, Canned	186	0			0.003 - 0.045	NT
Nectarines	672	4	0.6	0.10 - 0.78	0.062 ^	4.0
Peaches (V-5)	616	5	0.8	0.006 - 0.12	0.004 - 0.020	NT
Potatoes	744	0			0.004 - 0.045	0.1
Spinach	108	0			0.004 ^	NT
Strawberries (V-1)	741	1	0.1	0.006 ^	0.004 - 0.030	NT
Sweet Corn, Fresh	152	0			0.003 - 0.080	0.1
Sweet Corn, Frozen	33	0			0.003 - 0.080	0.1
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**6,235**	**12**				
Propetamphos (insecticide)						
Apple Juice	372	0			0.002 - 0.012	0.1
Asparagus	372	0			0.002 - 0.16	0.1
Blueberries	726	0			0.002 ^	0.1
Blueberries, Frozen	18	0			0.002 ^	0.1
Broccoli	554	0			0.002 ^	0.1
Celery	741	0			0.002 ^	0.1
Grape Juice	745	0			0.002 ^	0.1
Green Beans	741	0			0.002 - 0.010	0.1
Green Onions	186	0			0.002 ^	0.1
Greens, Collard	240	0			0.003 - 0.010	0.1
Greens, Kale	318	0			0.003 - 0.010	0.1
Kidney Beans, Canned	186	0			0.002 - 0.010	0.1
Nectarines	672	0			0.004 ^	0.1
Peaches	616	0			0.002 - 0.010	0.1
Potatoes	744	0			0.002 - 0.010	0.1
Spinach	744	0			0.002 - 0.010	0.1
Strawberries	741	0			0.002 ^	0.1
Summer Squash	554	0			0.002 - 0.006	0.1
Sweet Corn, Fresh	152	0			0.002 - 0.040	0.1
Sweet Corn, Frozen	33	0			0.002 - 0.040	0.1
Sweet Potatoes	54	0			0.002 ^	0.1
Tomatoes	740	0			0.004 ^	0.1
TOTAL	**10,249**	**0**				
Propham (herbicide)						
Kidney Beans, Canned	54	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	54	0			0.010 ^	NT
TOTAL	**162**	**0**				
Propiconazole (fungicide)						
Blueberries	515	0			0.008 ^	1.0
Blueberries, Frozen	13	0			0.008 ^	1.0
Broccoli	554	0			0.025 ^	NT
Celery	526	115	21.9	0.012 - 0.31	0.008 ^	5.0
Grape Juice	531	0			0.001 ^	1.0
Green Onions	186	0			0.008 ^	9.0
Kidney Beans, Canned	132	0			0.035 ^	NT
Nectarines	672	58	8.6	0.060 - 0.69	0.036 ^	2.0
Peaches	436	50	11.5	0.060 - 0.51	0.036 ^	2.0
Potatoes	220	0			0.035 ^	NT
Strawberries	526	42	8	0.001 - 0.56	0.001 ^	1.3
Sweet Corn, Fresh	105	0			0.080 ^	0.1
Sweet Corn, Frozen	26	0			0.080 ^	0.1
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**4,572**	**265**				

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
Propiconazole I (isomer of Propiconazole)						
Apple Juice	108	0			0.016 ^	NT
Asparagus	108	0			0.016 ^	NT
Blueberries	211	0			0.016 ^	1.0
Blueberries, Frozen	5	0			0.016 ^	1.0
Celery	215	17	7.9	0.027 - 0.066	0.016 ^	5.0
Grape Juice	214	0			0.016 ^	1.0
Green Beans	215	0			0.016 ^	NT
Greens, Collard (V-2)	2	2	100	0.027 ^	0.016 ^	NT
Kidney Beans, Canned	54	0			0.016 ^	NT
Peaches	180	13	7.2	0.027 - 0.17	0.016 ^	2.0
Potatoes	108	0			0.016 ^	NT
Spinach	216	0			0.016 ^	NT
Strawberries	215	3	1.4	0.027 ^	0.016 ^	1.3
Summer Squash	158	0			0.016 ^	NT
Sweet Corn, Fresh	47	0			0.016 ^	0.1
Sweet Corn, Frozen	7	0			0.016 ^	0.1
Sweet Potatoes	54	0			0.016 ^	NT
TOTAL	**2,117**	**35**				
Propiconazole II (isomer of Propiconazole)						
Apple Juice	108	0			0.016 ^	NT
Asparagus	108	0			0.016 ^	NT
Blueberries	211	0			0.016 ^	1.0
Blueberries, Frozen	5	0			0.016 ^	1.0
Celery	215	23	10.7	0.027 - 0.087	0.016 - 0.024	5.0
Grape Juice	214	0			0.016 ^	1.0
Green Beans	215	0			0.016 ^	NT
Greens, Collard (V-2)	2	2	100	0.027 - 0.049	0.016 ^	NT
Kidney Beans, Canned	54	0			0.016 ^	NT
Peaches	180	14	7.8	0.027 - 0.23	0.016 - 0.024	2.0
Potatoes	108	0			0.016 ^	NT
Spinach	216	0			0.016 - 0.024	NT
Strawberries	215	6	2.8	0.027 - 0.056	0.016 ^	1,3
Summer Squash	158	0			0.016 ^	NT
Sweet Corn, Fresh	47	0			0.016 ^	0.1
Sweet Corn, Frozen	7	0			0.016 ^	0.1
Sweet Potatoes	54	0			0.016 ^	NT
TOTAL	**2,117**	**45**				
Pymetrozine (insecticide)						
Broccoli	554	0			0.005 ^	0.5
Celery	526	1	0.2	0.008 ^	0.005 ^	0.6
Green Onions	186	0			0.005 ^	NT
Spinach	528	0			0.010 ^	0.6
Sweet Potatoes	130	0			0.010 ^	0.02
TOTAL	**1,924**	**1**				
Pyraclostrobin (fungicide)						
Apple Juice	108	0			0.001 ^	1.5
Asparagus	108	0			0.001 ^	0.5
Blueberries	726	246	33.9	0.002 - 0.59	0.001 ^	4.0
Blueberries, Frozen	18	11	61.1	0.002 - 0.036	0.001 ^	4.0
Broccoli	554	21	3.8	0.002 - 0.16	0.001 ^	5.0
Celery	741	88	11.9	0.002 - 0.24	0.001 ^	29.0
Grape Juice	745	0			0.0008 - 0.001	2.0
Green Beans	741	54	7.3	0.002 - 0.12	0.001 - 0.003	0.5
Green Onions	186	0			0.004 ^	0.9
Greens, Collard	240	46	19.2	0.002 - 2.8	0.001 - 0.003	16.0
Greens, Kale	318	38	11.9	0.002 - 4.1	0.001 - 0.003	16.0
Kidney Beans, Canned	186	0			0.001 - 0.003	0.5
Nectarines	672	8	1.2	0.058 - 0.50	0.035 ^	0.9
Peaches	616	58	9.4	0.002 - 0.18	0.001 - 0.003	0.9

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
Potatoes	744	0			0.001 - 0.003	0.04
Spinach	744	46	6.2	0.002 - 1.7	0.001 - 0.003	29.0
Strawberries	741	392	52.9	0.0008 - 0.61	0.0008 - 0.001	1.2
Summer Squash	158	14	8.9	0.002 - 0.035	0.001 ^	0.5
Sweet Corn, Fresh	152	0			0.001 - 0.040	0.04
Sweet Corn, Frozen	33	0			0.001 - 0.040	0.04
Sweet Potatoes	184	0			0.001 - 0.003	0.04
Tomatoes	740	3	0.4	0.058 ^	0.035 ^	1.4
TOTAL	**9,455**	**1,025**				
Pyraflufen ethyl (herbicide)						
Potatoes	154	0			0.036 ^	0.02
TOTAL	**154**	**0**				
Pyrethrins (insecticide)						
Grape Juice	531	0			0.098 ^	1.0
Strawberries	526	0			0.098 ^	1.0
TOTAL	**1,057**	**0**				
Pyridaben (insecticide, acaricide)						
Apple Juice	372	0			0.015 - 0.030	0.5
Asparagus	108	0			0.015 ^	NT
Blueberries	211	0			0.015 ^	NT
Blueberries, Frozen	5	0			0.015 ^	NT
Grape Juice	745	0			0.0006 - 0.015	1.5
Kidney Beans, Canned	186	0			0.015 - 0.021	NT
Nectarines	672	0			0.042 ^	2.5
Peaches	616	2	0.3	0.017 - 0.059	0.010 - 0.015	2.5
Potatoes	328	0			0.015 - 0.021	NT
Spinach	108	0			0.015 ^	NT
Strawberries	741	0			0.0006 - 0.015	2.5
Sweet Corn, Fresh	47	0			0.015 ^	NT
Sweet Corn, Frozen	7	0			0.015 ^	NT
Sweet Potatoes	184	0			0.013 - 0.015	NT
Tomatoes	740	2	0.3	0.060 ^	0.036 ^	0.15
TOTAL	**5,070**	**4**				
Pyrimethanil (fungicide)						
Apple Juice	372	27	7.3	0.004 - 0.065	0.003 - 0.050	3.0
Asparagus	108	0			0.003 ^	NT
Blueberries (V-3)	726	3	0.4	0.0005 ^	0.0003 - 0.003	NT
Blueberries, Frozen	18	0			0.0003 - 0.003	NT
Broccoli (V-5)	554	5	0.9	0.0005 - 0.008	0.0003 ^	NT
Celery (V-20)	526	20	3.8	0.0005 - 0.003	0.0003 - 0.001	NT
Grape Juice	745	0			0.003 ^	5.0
Green Beans	687	0			0.003 ^	NT
Green Onions	186	0			0.001 ^	2.0
Greens, Collard	160	0			0.003 ^	NT
Greens, Kale	236	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.003 ^	NT
Nectarines	672	8	1.2	0.010 - 0.049	0.006 ^	3.0
Peaches	180	4	2.2	0.008 - 0.044	0.003 ^	3.0
Potatoes	216	0			0.003 ^	0.05
Spinach (V-2)	636	2	0.3	0.003 - 0.007	0.003 ^	NT
Strawberries (X-1)	741	230	31	0.003 - 4.4	0.003 ^	3.0
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	184	0			0.003 ^	0.05
Tomatoes	740	18	2.4	0.010 - 0.32	0.006 ^	0.50
TOTAL	**7,795**	**317**				
Pyriproxyfen (insecticide, growth regulator)						
Apple Juice	372	0			0.008 - 0.015	0.20
Asparagus	372	0			0.008 - 0.015	0.20

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
Blueberries	726	0			0.008 - 0.013	1.0
Blueberries, Frozen	18	0			0.008 - 0.013	1.0
Broccoli	554	0			0.013 ^	0.7
Celery	741	0			0.008 - 0.013	2.50
Grape Juice	745	0			0.001 - 0.008	2.5
Green Beans	215	1	0.5	0.013 ^	0.008 ^	0.20
Green Onions	186	0			0.013 ^	0.70
Greens, Collard	80	0			0.008 ^	2.0
Greens, Kale	82	0			0.008 ^	2.0
Kidney Beans, Canned	186	0			0.008 - 0.016	0.20
Nectarines	672	0			0.012 ^	1.0
Peaches	616	1	0.2	0.013 ^	0.008 ^	1.0
Potatoes	744	0			0.008 - 0.016	0.15
Spinach	216	0			0.008 ^	0.10
Strawberries	741	6	0.8	0.002 - 0.074	0.001 - 0.008	0.30
Summer Squash	554	0			0.008 - 0.015	0.10
Sweet Corn, Fresh	152	0			0.008 - 0.015	1.1
Sweet Corn, Frozen	33	0			0.008 - 0.015	1.1
Sweet Potatoes	184	0			0.008 - 0.015	0.15
Tomatoes	740	8	1.1	0.020 ^	0.012 ^	0.20
TOTAL	**8,929**	**16**				
Quinchlorac (herbicide)						
Potatoes	744	0			0.020 ^	NT
Spinach	744	0			0.020 ^	NT
TOTAL	**1,488**	**0**				
Quinoxyfen (fungicide)						
Apple Juice	108	0			0.0005 ^	NT
Asparagus	108	0			0.0005 - 0.001	NT
Blueberries	211	0			0.0005 - 0.001	NT
Blueberries, Frozen	5	0			0.0005 - 0.001	NT
Celery	215	0			0.0005 - 0.001	NT
Grape Juice	214	0			0.0005 - 0.001	0.60
Green Beans	215	0			0.0005 - 0.001	NT
Kidney Beans, Canned	54	0			0.001 ^	NT
Peaches	180	0			0.0005 - 0.001	NT
Potatoes	108	0			0.0005 - 0.001	NT
Spinach (V-2)	216	2	0.9	0.0008 ^	0.0005 - 0.001	NT
Strawberries	215	27	12.6	0.0008 - 0.080	0.0005 - 0.001	0.90
Summer Squash	158	3	1.9	0.0008 - 0.018	0.0005 - 0.001	0.30
Sweet Corn, Fresh	47	0			0.001 ^	NT
Sweet Corn, Frozen	7	0			0.001 ^	NT
Sweet Potatoes	184	0			0.001 - 0.010	NT
TOTAL	**2,245**	**32**				
Quintozene - PCNB (fungicide) (parent of HCB, PCA and PCB)						
Apple Juice	108	0			0.003 ^	NT
Asparagus	108	0			0.003 ^	0.1
Blueberries	726	0			0.003 ^	NT
Blueberries, Frozen	18	0			0.003 ^	NT
Broccoli	540	0			0.019 ^	0.1
Celery	727	0			0.003 - 0.010	NT
Grape Juice	745	0			0.003 - 0.020	NT
Green Beans	741	17	2.3	0.005 - 0.037	0.003 - 0.005	0.1
Greens, Collard	240	2	0.8	0.005 - 0.006	0.003 - 0.005	0.2
Greens, Kale	318	3	0.9	0.006 - 0.014	0.003 - 0.005	0.2
Kidney Beans, Canned	186	0			0.001 - 0.003	0.1
Peaches	396	0			0.001 - 0.003	NT
Potatoes	744	12	1.6	0.001 - 0.022	0.001 - 0.003	0.1
Spinach	700	0			0.003 - 0.005	NT
Strawberries	741	0			0.003 - 0.020	NT
Summer Squash	158	0			0.003 ^	NT

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
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	140	0			0.003 - 0.005	NT
Tomatoes	740	0			0.004 ^	0.1
TOTAL	**8,130**	**34**				
Resmethrin (insecticide)						
Apple Juice	264	0			0.030 ^	3.0
Asparagus	264	0			0.030 ^	3.0
Grape Juice	531	0			0.031 ^	3.0
Green Beans	482	0			0.030 ^	3.0
Greens, Collard	160	0			0.030 ^	3.0
Greens, Kale	236	0			0.030 - 0.15	3.0
Nectarines	672	0			0.012 ^	3.0
Peaches	414	0			0.010 ^	3.0
Potatoes	308	0			0.010 ^	3.0
Spinach	528	0			0.030 ^	3.0
Strawberries	22	0			0.031 ^	3.0
Summer Squash	396	0			0.030 ^	3.0
Sweet Corn, Fresh	105	0			0.030 ^	3.0
Sweet Corn, Frozen	26	0			0.030 ^	3.0
Sweet Potatoes	130	0			0.030 ^	3.0
Tomatoes	740	0			0.012 ^	3.0
TOTAL	**5,278**	**0**				
Resmethrin-c (isomer of Resmethrin)						
Apple Juice	108	0			0.003 - 0.009	3.0
Asparagus	90	0			0.009 ^	3.0
Blueberries	726	0			0.002 - 0.009	3.0
Blueberries, Frozen	18	0			0.002 - 0.009	3.0
Broccoli	554	0			0.002 - 0.008	3.0
Celery	741	0			0.002 - 0.016	3.0
Grape Juice	214	0			0.003 - 0.009	3.0
Green Beans	163	0			0.010 ^	3.0
Green Onions	186	0			0.002 - 0.008	3.0
Greens, Collard	80	0			0.010 ^	3.0
Greens, Kale	82	0			0.010 ^	3.0
Kidney Beans, Canned	186	0			0.009 - 0.025	3.0
Peaches	180	0			0.010 ^	3.0
Potatoes	416	0			0.003 - 0.025	3.0
Spinach	158	0			0.003 - 0.009	3.0
Strawberries	215	0			0.003 - 0.009	3.0
Summer Squash	158	0			0.010 ^	3.0
Sweet Corn, Fresh	17	0			0.010 ^	3.0
Sweet Corn, Frozen	1	0			0.010 ^	3.0
Sweet Potatoes	18	0			0.009 ^	3.0
TOTAL	**4,311**	**0**				
Resmethrin-t (isomer of Resmethrin)						
Apple Juice	108	0			0.003 - 0.009	3.0
Asparagus	90	0			0.009 ^	3.0
Blueberries	726	0			0.002 - 0.009	3.0
Blueberries, Frozen	18	0			0.002 - 0.009	3.0
Broccoli	554	0			0.002 - 0.008	3.0
Celery	741	0			0.002 - 0.016	3.0
Grape Juice	214	0			0.003 - 0.009	3.0
Green Beans	163	0			0.010 ^	3.0
Green Onions	186	0			0.002 ^	3.0
Greens, Collard	80	0			0.010 ^	3.0
Greens, Kale	82	0			0.010 ^	3.0
Kidney Beans, Canned	186	0			0.010 - 0.025	3.0
Peaches	180	0			0.010 ^	3.0
Potatoes	436	0			0.003 - 0.025	3.0

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
Spinach	216	0			0.003 - 0.009	3.0
Strawberries	215	0			0.003 - 0.009	3.0
Summer Squash	158	0			0.010 ^	3.0
Sweet Corn, Fresh	47	0			0.010 ^	3.0
Sweet Corn, Frozen	7	0			0.010 ^	3.0
Sweet Potatoes	54	0			0.010 ^	3.0
TOTAL	**4,461**	**0**				
Sethoxydim (herbicide)						
Grape Juice	531	0			0.001 ^	1.0
Strawberries	504	0			0.001 ^	10
TOTAL	**1,035**	**0**				
Simazine (herbicide)						
Apple Juice	372	0			0.002 - 0.030	0.2
Asparagus	372	0			0.002 - 0.030	NT
Blueberries	726	11	1.5	0.003 - 0.12	0.002 ^	0.20
Blueberries, Frozen	18	0			0.002 ^	0.20
Broccoli	554	0			0.002 ^	NT
Grape Juice	745	0			0.002 - 0.052	0.20
Green Onions	172	0			0.002 ^	NT
Greens, Collard	80	0			0.002 ^	NT
Greens, Kale (V-2)	82	2	2.4	0.003 ^	0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Peaches	616	0			0.002 - 0.010	0.2
Potatoes	108	0			0.002 ^	NT
Spinach	108	0			0.002 ^	NT
Strawberries	741	0			0.002 - 0.052	0.25
Sweet Corn, Fresh	152	0			0.002 - 0.030	0.25
Sweet Corn, Frozen	33	0			0.002 - 0.030	0.25
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**4,987**	**13**				
Spinetoram (insecticide)						
Celery	3	3	100	0.002 - 0.010	0.001 ^	8.0
Green Onions	170	4	2.4	0.002 - 0.013	0.001 ^	2.0
Kidney Beans, Canned	54	0			0.002 ^	0.04
TOTAL	**227**	**7**				
Spinosad (insecticide) (total of spinosyns A and D)						
Blueberries	1	1	100	0.003 ^	0.001 ^	0.250
Celery	7	7	100	0.002 - 0.006	0.001 ^	8.0
Green Onions	186	23	12.4	0.002 - 0.031	0.001 ^	2.0
TOTAL	**194**	**31**				
Spinosad A (isomer of Spinosad)						
Apple Juice	108	0			0.002 ^	0.2
Asparagus	90	0			0.002 ^	0.2
Blueberries	211	0			0.002 ^	0.250
Blueberries, Frozen	5	0			0.002 ^	0.250
Celery	215	6	2.8	0.003 ^	0.002 ^	8.0
Grape Juice	723	0			0.002 - 0.005	0.50
Green Beans	741	21	2.8	0.002 - 0.015	0.002 ^	0.30
Greens, Collard	240	22	9.2	0.002 - 1.3	0.002 ^	10
Greens, Kale	241	18	7.5	0.002 - 0.30	0.002 ^	10
Kidney Beans, Canned	54	0			0.002 ^	0.30
Peaches	180	35	19.4	0.003 - 0.026	0.002 ^	0.2
Potatoes	216	0			0.002 ^	0.10
Spinach	722	193	26.7	0.002 - 1.6	0.002 ^	8.0
Strawberries	720	48	6.7	0.003 - 0.042	0.002 - 0.005	1.0
Summer Squash	158	0			0.002 ^	0.3
Sweet Corn, Fresh	47	0			0.002 ^	0.02

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
Sweet Corn, Frozen	7	0			0.002 ^	0.02
Sweet Potatoes	184	0			0.002 ^	0.10
TOTAL	**4,862**	**343**				
Spinosad D (isomer of Spinosad)						
Apple Juice	108	0			0.0006 ^	0.2
Asparagus	90	0			0.0006 - 0.001	0.2
Blueberries	211	0			0.0006 - 0.001	0.250
Blueberries, Frozen	5	0			0.0006 - 0.001	0.250
Celery	215	3	1.4	0.001 ^	0.0006 - 0.001	8.0
Grape Juice	701	0			0.0006 - 0.010	0.50
Green Beans	479	1	0.2	0.003 ^	0.0006 - 0.002	0.30
Greens, Collard	80	6	7.5	0.001 - 0.010	0.0006 - 0.001	10
Greens, Kale	82	1	1.2	0.002 ^	0.0006 - 0.001	10
Kidney Beans, Canned	54	0			0.001 ^	0.30
Peaches	180	14	7.8	0.001 - 0.008	0.0006 - 0.001	0.2
Potatoes	216	0			0.0006 - 0.001	0.10
Spinach	458	108	23.6	0.001 - 0.37	0.0006 - 0.002	8.0
Strawberries	720	14	1.9	0.001 - 0.009	0.0006 - 0.010	1.0
Summer Squash	158	0			0.0006 - 0.001	0.3
Sweet Corn, Fresh	47	0			0.001 ^	0.02
Sweet Corn, Frozen	7	0			0.001 ^	0.02
Sweet Potatoes	184	0			0.001 - 0.002	0.10
TOTAL	**3,995**	**147**				
Spirodiclofen (acaricide)						
Apple Juice	264	0			0.050 ^	0.80
Grape Juice	531	0			0.001 ^	2.4
Strawberries	526	0			0.001 ^	NT
TOTAL	**1,321**	**0**				
Spiromesifen (insecticide)						
Green Beans	461	0			0.002 ^	0.80
Greens, Collard	123	3	2.4	0.004 - 0.016	0.002 ^	12
Greens, Kale	185	3	1.6	0.003 - 0.005	0.002 ^	12
Spinach	440	0			0.002 ^	12
Sweet Potatoes	130	0			0.002 ^	0.02
TOTAL	**1,339**	**6**				
Spiromesifen Total (parent + enol metabolite) (insecticide)						
Broccoli	554	0			0.006 - 0.020	2.0
Celery	526	0			0.006 - 0.020	NT
Green Beans	65	0			0.002 ^	0.80
Green Onions	186	0			0.020 ^	NT
Greens, Collard	37	0			0.002 ^	12
Greens, Kale	51	1	2	0.14 ^	0.002 ^	12
Spinach	88	0			0.002 ^	12
TOTAL	**1,507**	**1**				
Sulfentrazone (herbicide)						
Apple Juice	108	0			0.003 ^	NT
Asparagus	108	0			0.003 ^	0.15
Blueberries	211	0			0.003 ^	NT
Blueberries, Frozen	5	0			0.003 ^	NT
Celery	215	0			0.003 ^	NT
Grape Juice	745	0			0.003 ^	NT
Green Beans	215	0			0.003 ^	0.15
Kidney Beans, Canned	54	0			0.003 ^	0.15
Peaches	180	0			0.003 ^	NT
Potatoes	216	0			0.003 ^	0.15
Spinach	216	0			0.003 ^	NT
Strawberries	741	0			0.003 ^	0.60
Summer Squash	158	0			0.003 ^	NT

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
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	54	0			0.003 ^	NT
TOTAL	**3,280**	**0**				
Sulprofos (insecticide)						
Blueberries	515	0			0.002 ^	NT
Blueberries, Frozen	13	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Green Onions	186	0			0.002 ^	NT
TOTAL	**1,794**	**0**				
TCMTB (fungicide)						
Sweet Corn, Fresh	105	0			0.010 ^	NT
Sweet Corn, Frozen	26	0			0.010 ^	NT
TOTAL	**131**	**0**				
Tebuconazole (fungicide)						
Apple Juice	108	0			0.020 ^	NT
Asparagus	108	0			0.020 ^	0.05
Blueberries (V-6)	726	6	0.8	0.003 - 0.046	0.002 - 0.020	NT
Blueberries, Frozen	18	0			0.002 - 0.020	NT
Broccoli	554	0			0.002 ^	NT
Celery	741	0			0.002 - 0.020	NT
Grape Juice	745	0			0.012 - 0.020	5.0
Green Beans	215	0			0.020 ^	0.1
Green Onions	186	0			0.006 ^	1.3
Kidney Beans, Canned	54	0			0.020 ^	0.2
Nectarines	672	6	0.9	0.11 - 0.52	0.066 ^	1.0
Peaches	180	8	4.4	0.033 - 0.43	0.020 ^	1.0
Potatoes	216	0			0.020 ^	NT
Spinach	216	0			0.020 ^	NT
Strawberries (V-1)	741	1	0.1	0.050 ^	0.012 - 0.020	NT
Summer Squash	158	0			0.020 ^	NT
Sweet Corn, Fresh	47	0			0.020 ^	0.5
Sweet Corn, Frozen	7	0			0.020 ^	0.5
Sweet Potatoes	54	0			0.020 ^	NT
TOTAL	**5,746**	**21**				
Tebufenozide (insecticide)						
Apple Juice	108	0			0.003 ^	1.0
Asparagus	108	0			0.003 ^	NT
Blueberries	726	22	3	0.005 - 1.0	0.003 - 0.010	3.0
Blueberries, Frozen	18	2	11.1	0.014 - 0.17	0.003 - 0.010	3.0
Broccoli	554	0			0.010 ^	5.0
Celery	741	3	0.4	0.005 - 0.056	0.003 - 0.010	2.0
Grape Juice	745	0			0.003 - 0.027	3.0
Green Beans	741	0			0.003 - 0.005	NT
Green Onions	186	0			0.010 ^	NT
Greens, Collard	240	3	1.2	0.005 - 0.017	0.003 - 0.005	10.0
Greens, Kale	318	2	0.6	0.005 - 0.007	0.003 - 0.005	10.0
Kidney Beans, Canned	186	0			0.003 - 0.010	NT
Peaches	377	0			0.003 - 0.010	NT
Potatoes	416	0			0.003 - 0.010	NT
Spinach	744	4	0.5	0.005 - 0.044	0.003 - 0.005	10.0
Strawberries	741	0			0.003 - 0.027	3.0
Summer Squash	158	0			0.003 ^	NT
Sweet Corn, Fresh	47	0			0.003 ^	NT
Sweet Corn, Frozen	7	0			0.003 ^	NT
Sweet Potatoes	184	0			0.003 - 0.005	0.25
TOTAL	**7,345**	**36**				

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
Tecnazene (plant growth regulator)						
Blueberries	500	0			0.005 ^	NT
Blueberries, Frozen	13	0			0.005 ^	NT
Broccoli	540	0			0.005 ^	NT
Celery	526	0			0.005 ^	NT
Green Onions	170	0			0.005 ^	NT
TOTAL	**1,749**	**0**				
Tefluthrin (insecticide)						
Apple Juice	108	0			0.002 - 0.006	NT
Asparagus	372	0			0.006 - 0.010	NT
Blueberries	211	0			0.002 - 0.006	NT
Blueberries, Frozen	5	0			0.002 - 0.006	NT
Grape Juice	745	0			0.002 - 0.015	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.006	NT
Peaches	197	0			0.002 ^	NT
Potatoes	524	0			0.002 - 0.006	NT
Spinach	216	0			0.002 - 0.006	NT
Strawberries	741	0			0.002 - 0.015	NT
Sweet Corn, Fresh	152	0			0.006 - 0.010	0.06
Sweet Corn, Frozen	33	0			0.006 - 0.010	0.06
Sweet Potatoes	54	0			0.006 ^	NT
TOTAL	**3,730**	**0**				
Temephos (insecticide)						
Kidney Beans, Canned	88	0			0.010 ^	NT
Peaches	197	0			0.010 ^	NT
Potatoes	264	0			0.010 ^	NT
TOTAL	**549**	**0**				
Terbacil (herbicide)						
Apple Juice	372	0			0.020 - 0.060	0.3
Asparagus	372	0			0.020 - 0.060	0.4
Blueberries	726	0			0.006 - 0.020	0.2
Blueberries, Frozen	18	0			0.006 - 0.020	0.2
Broccoli	554	0			0.006 ^	NT
Celery	705	0			0.006 - 0.020	NT
Grape Juice	745	0			0.006 - 0.050	NT
Green Beans	215	0			0.020 ^	NT
Green Onions	186	0			0.006 ^	NT
Kidney Beans, Canned	54	0			0.020 ^	NT
Peaches	616	0			0.020 ^	0.2
Potatoes	108	0			0.020 ^	NT
Spinach	216	0			0.020 ^	NT
Strawberries	741	0			0.006 - 0.020	0.1
Summer Squash	158	0			0.020 ^	NT
Sweet Corn, Fresh	47	0			0.020 ^	NT
Sweet Corn, Frozen	7	0			0.020 ^	NT
Sweet Potatoes	54	0			0.020 ^	NT
TOTAL	**5,894**	**0**				
Terbufos (insecticide)						
Asparagus	108	0			0.002 ^	NT
Blueberries	621	0			0.002 ^	NT
Blueberries, Frozen	15	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Grape Juice	108	0			0.002 ^	NT
Green Beans	526	0			0.005 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	186	0			0.002 - 0.010	NT
Peaches	197	0			0.010 ^	NT

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
Potatoes	372	0			0.002 - 0.010	NT
Spinach	636	0			0.002 - 0.005	NT
Strawberries	107	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.020	0.05
Sweet Corn, Frozen	33	0			0.002 - 0.020	0.05
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**4,381**	**0**				
Terbufos sulfone (metabolite of Terbufos)						
Asparagus	108	0			0.002 ^	NT
Blueberries	621	0			0.002 ^	NT
Blueberries, Frozen	15	0			0.002 ^	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.002 ^	NT
Grape Juice	108	0			0.002 ^	NT
Green Onions	186	0			0.002 ^	NT
Kidney Beans, Canned	54	0			0.002 ^	NT
Potatoes	108	0			0.002 ^	NT
Spinach	108	0			0.002 ^	NT
Strawberries	107	0			0.002 ^	NT
Sweet Corn, Fresh	152	0			0.002 - 0.010	0.05
Sweet Corn, Frozen	33	0			0.002 - 0.010	0.05
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**2,734**	**0**				
Terbufos oxygen analog (metabolite of Terbufos)						
Kidney Beans, Canned	132	0			0.005 ^	NT
Peaches	197	0			0.005 ^	NT
Potatoes	308	0			0.005 ^	NT
Sweet Corn, Fresh	105	0			0.002 ^	0.05
Sweet Corn, Frozen	26	0			0.002 ^	0.05
TOTAL	**768**	**0**				
Tetrachlorvinphos (insecticide)						
Asparagus	108	0			0.005 ^	NT
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	554	0			0.003 ^	NT
Celery	526	0			0.003 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.005 ^	NT
Potatoes	108	0			0.005 ^	NT
Spinach	108	0			0.005 ^	NT
Sweet Corn, Fresh	47	0			0.005 ^	NT
Sweet Corn, Frozen	7	0			0.005 ^	NT
Sweet Potatoes	54	0			0.005 ^	NT
TOTAL	**2,280**	**0**				
Tetradifon (insecticide)						
Apple Juice	108	0			0.006 ^	NT
Asparagus	108	0			0.006 ^	NT
Blueberries	713	0			0.006 - 0.032	NT
Blueberries, Frozen	16	0			0.006 - 0.032	NT
Broccoli	554	0			0.010 - 0.032	NT
Celery	526	0			0.010 - 0.032	NT
Grape Juice	745	0			0.006 - 0.013	NT
Green Onions	186	0			0.032 ^	NT
Greens, Kale (V-1)	1	1	100	0.010 ^	0.006 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.006	NT
Peaches	616	0			0.002 - 0.006	NT
Potatoes	416	0			0.001 - 0.006	NT
Spinach	108	0			0.006 ^	NT
Strawberries	741	0			0.006 - 0.013	NT

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
Sweet Corn, Fresh	47	0			0.006 ^	NT
Sweet Corn, Frozen	7	0			0.006 ^	NT
Sweet Potatoes	54	0			0.006 ^	NT
TOTAL	**5,132**	**1**				
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)						
Apple Juice	108	8	7.4	0.067 - 0.46	0.040 ^	25
Asparagus	108	0			0.10 ^	0.05
Blueberries	726	112	15.4	0.033 - 1.4	0.020 - 0.040	20.0
Blueberries, Frozen	18	4	22.2	0.033 - 0.40	0.020 - 0.040	20.0
Broccoli	554	0			0.020 ^	0.05
Celery	741	0			0.020 - 0.26	0.05
Grape Juice	214	2	0.9	0.067 - 0.35	0.040 ^	25.0
Green Beans (X-1)	215	1	0.5	0.20 ^	0.10 ^	0.05
Green Onions	186	1	0.5	0.033 ^	0.020 ^	0.05
Greens, Collard	80	0			0.10 ^	0.05
Greens, Kale	82	0			0.10 ^	0.05
Kidney Beans, Canned	186	0			0.071 - 0.10	0.05
Peaches	616	36	5.8	0.065 - 0.45	0.039 - 0.040	15
Potatoes	744	0			0.039 - 0.10	0.05
Spinach	216	0			0.10 ^	0.05
Strawberries	215	100	46.5	0.067 - 2.6	0.040 - 0.10	20.0
Summer Squash (X-1)	158	1	0.6	0.20 ^	0.10 ^	0.05
Sweet Corn, Fresh	47	0			0.10 ^	0.05
Sweet Corn, Frozen	7	0			0.10 ^	0.05
Sweet Potatoes	54	0			0.10 - 0.40	0.05
TOTAL	**5,275**	**265**				
Tetramethrin (insecticide)						
Apple Juice	108	0			0.003 - 0.009	NT
Asparagus	372	0			0.009 - 0.010	NT
Blueberries	211	0			0.003 - 0.009	NT
Blueberries, Frozen	5	0			0.003 - 0.009	NT
Grape Juice	723	0			0.003 - 0.015	NT
Kidney Beans, Canned	186	0			0.005 - 0.015	NT
Potatoes	436	0			0.003 - 0.009	NT
Spinach	744	0			0.003 - 0.015	NT
Strawberries	741	0			0.003 - 0.015	NT
Sweet Corn, Fresh	152	0			0.015 - 0.030	NT
Sweet Corn, Frozen	33	0			0.015 - 0.030	NT
Sweet Potatoes	184	0			0.015 ^	NT
TOTAL	**3,895**	**0**				
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)						
Apple Juice	108	44	40.7	0.002 - 0.46	0.001 ^	5.0
Asparagus	108	0			0.001 ^	NT
Blueberries (V-1)	712	1	0.1	0.0002 ^	0.0001 - 0.001	NT
Blueberries, Frozen	17	0			0.0001 - 0.001	NT
Broccoli (V-4)	538	4	0.7	0.0002 - 0.002	0.0001 - 0.001	NT
Celery (V-11)	727	11	1.5	0.0002 - 0.001	0.0001 - 0.001	NT
Grape Juice	723	0			0.001 - 0.030	NT
Green Beans (V-4)	741	4	0.5	0.002 - 0.026	0.001 - 0.010	NT
Green Onions	186	0			0.001 ^	NT
Greens, Collard (V-2)	161	2	1.2	0.002 - 0.046	0.001 - 0.010	NT
Greens, Kale	236	0			0.010 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.030	NT
Peaches (V-46)	616	46	7.5	0.002 - 0.21	0.001 - 0.030	NT
Potatoes	744	54	7.3	0.002 - 0.89	0.001 - 0.030	10.0
Spinach	744	0			0.001 - 0.010	NT
Strawberries	237	5	2.1	0.002 - 0.14	0.001 - 0.030	5.0
Summer Squash	158	0			0.001 ^	NT
Sweet Corn, Fresh	47	0			0.001 ^	NT

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
Sweet Corn, Frozen	7	0			0.001 ^	NT
Sweet Potatoes	184	0			0.001 - 0.010	0.05
TOTAL	**7,180**	**171**				
Thiacloprid (insecticide)						
Apple Juice	108	5	4.6	0.002 - 0.003	0.001 ^	0.30
Asparagus	108	0			0.001 ^	NT
Blueberries (V-1)	726	1	0.1	0.010 ^	0.0004 - 0.001	NT
Blueberries, Frozen	18	0			0.0004 - 0.001	NT
Broccoli	554	0			0.002 ^	NT
Celery	526	0			0.0004 - 0.001	NT
Grape Juice	214	0			0.001 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.001 ^	NT
Peaches	180	0			0.001 ^	NT
Potatoes	108	0			0.001 ^	NT
Spinach	108	0			0.001 ^	NT
Strawberries	215	0			0.001 ^	NT
Sweet Corn, Fresh	47	0			0.001 ^	NT
Sweet Corn, Frozen	7	0			0.001 ^	NT
Sweet Potatoes	184	0			0.001 - 0.010	NT
TOTAL	**3,343**	**6**				
Thiamethoxam (insecticide) (also a parent of Clothianidin)						
Apple Juice	372	0			0.001 - 0.040	0.2
Asparagus	108	0			0.001 ^	0.02
Blueberries	726	3	0.4	0.002 - 0.008	0.001 - 0.005	0.20
Blueberries, Frozen	18	0			0.001 - 0.005	0.20
Broccoli	554	0			0.005 ^	4.5
Celery	741	6	0.8	0.002 - 0.012	0.001 - 0.005	4.0
Grape Juice	745	0			0.001 - 0.010	0.20
Green Beans	741	0			0.001 - 0.010	0.02
Green Onions	186	0			0.005 ^	NT
Greens, Collard	240	7	2.9	0.002 - 0.014	0.001 - 0.010	3.0
Greens, Kale	318	8	2.5	0.002 - 0.032	0.001 - 0.010	3.0
Kidney Beans, Canned	186	0			0.001 - 0.003	0.02
Nectarines	672	0			0.013 ^	0.5
Peaches	616	2	0.3	0.007 - 0.021	0.001 - 0.003	0.5
Potatoes	744	49	6.6	0.002 - 0.035	0.001 - 0.003	0.25
Spinach	743	0			0.001 - 0.010	4.0
Strawberries	741	58	7.8	0.002 - 0.079	0.001 - 0.010	0.3
Summer Squash	554	31	5.6	0.002 - 0.027	0.001 - 0.040	0.2
Sweet Corn, Fresh	152	0			0.001 - 0.040	0.02
Sweet Corn, Frozen	33	0			0.001 - 0.040	0.02
Sweet Potatoes	184	0			0.001 - 0.010	0.02
Tomatoes	740	9	1.2	0.022 - 0.058	0.013 ^	0.25
TOTAL	**10,114**	**173**				
Thiobencarb (herbicide)						
Asparagus	108	0			0.010 ^	NT
Blueberries	621	0			0.0006 - 0.010	NT
Blueberries, Frozen	15	0			0.0006 - 0.010	NT
Broccoli	554	0			0.0006 ^	NT
Celery	741	1	0.1	0.017 ^	0.0006 - 0.010	0.2
Grape Juice	108	0			0.010 ^	NT
Green Beans	215	0			0.010 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.010 ^	NT
Potatoes	108	0			0.010 ^	NT
Spinach	216	0			0.010 ^	NT
Strawberries	107	0			0.010 ^	NT
Summer Squash	158	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.010 ^	NT

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
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	54	0			0.010 ^	NT
TOTAL	**3,299**	**1**				
Thiodicarb (insecticide)						
Apple Juice	108	0			0.002 ^	NT
Blueberries	105	0			0.002 ^	NT
Blueberries, Frozen	3	0			0.002 ^	NT
Celery	195	0			0.002 ^	35
Grape Juice	106	0			0.002 ^	NT
Kidney Beans, Canned	128	0			0.002 ^	NT
Peaches	377	0			0.002 ^	NT
Potatoes	416	0			0.002 ^	NT
Spinach	462	0			0.010 ^	35
Strawberries	215	0			0.002 ^	NT
Sweet Corn, Fresh	30	0			0.002 ^	2.0
Sweet Corn, Frozen	6	0			0.002 ^	2.0
Sweet Potatoes	18	0			0.002 ^	NT
TOTAL	**2,169**	**0**				
Thionazin (insecticide, fumigant)						
Asparagus	108	0			0.001 ^	NT
Kidney Beans, Canned	54	0			0.001 - 0.002	NT
Potatoes	108	0			0.001 ^	NT
Spinach	108	0			0.001 ^	NT
Sweet Corn, Fresh	47	0			0.002 ^	NT
Sweet Corn, Frozen	7	0			0.002 ^	NT
Sweet Potatoes	54	0			0.002 ^	NT
TOTAL	**486**	**0**				
Thiophanate methyl (fungicide)						
Kidney Beans, Canned	132	0			0.10 ^	0.2
Peaches	173	0			0.010 ^	3.0
Potatoes	198	0			0.010 - 0.10	0.1
TOTAL	**503**	**0**				
Tolyfluanid (fungicide)						
Tomatoes	740	0			0.010 ^	2.0
TOTAL	**740**	**0**				
Tri-Allate (herbicide)						
Celery	215	0			0.010 ^	NT
Green Beans	194	0			0.010 ^	NT
Potatoes	108	0			0.010 ^	NT
Spinach	108	0			0.010 ^	NT
Summer Squash	158	0			0.010 ^	NT
Sweet Corn, Fresh	47	0			0.010 ^	NT
Sweet Corn, Frozen	7	0			0.010 ^	NT
Sweet Potatoes	130	0			0.015 ^	NT
TOTAL	**967**	**0**				
Triadimefon (fungicide) (also a parent of Triadimenol)						
Apple Juice	372	0			0.025 - 0.030	1.0
Asparagus	108	0			0.025 ^	NT
Blueberries	726	0			0.0009 - 0.025	NT
Blueberries, Frozen	18	0			0.0009 - 0.025	NT
Broccoli	554	0			0.0009 ^	NT
Celery	741	0			0.0009 - 0.025	NT
Grape Juice	745	0			0.003 - 0.025	1.0
Green Beans	215	0			0.025 ^	NT
Green Onions	186	0			0.003 ^	NT
Kidney Beans, Canned	54	0			0.025 ^	NT
Nectarines	672	0			0.036 ^	4.0

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
Peaches	180	0			0.025 ^	NT
Potatoes	216	0			0.025 ^	NT
Spinach	216	0			0.025 ^	NT
Strawberries	741	0			0.003 - 0.025	NT
Summer Squash	554	0			0.025 - 0.030	0.3
Sweet Corn, Fresh	47	0			0.025 ^	0.05
Sweet Corn, Frozen	7	0			0.025 ^	0.05
Sweet Potatoes	54	0			0.025 ^	NT
TOTAL	**6,406**	**0**				
Triadimenol (fungicide) (also a metabolite of Triadimefon)						
Apple Juice	372	0			0.015 - 0.050	1.0
Asparagus	108	0			0.015 - 0.050	NT
Blueberries	211	0			0.015 ^	NT
Blueberries, Frozen	5	0			0.015 ^	NT
Celery	215	0			0.015 ^	NT
Grape Juice	745	0			0.002 - 0.015	1.0
Green Beans	215	0			0.015 ^	NT
Kidney Beans, Canned	54	0			0.015 ^	NT
Nectarines	672	1	0.1	0.19 ^	0.035 ^	4.0
Peaches	180	0			0.015 ^	NT
Potatoes	108	0			0.015 ^	NT
Spinach	216	0			0.015 ^	NT
Strawberries	741	0			0.002 - 0.015	NT
Summer Squash	554	0			0.015 - 0.050	0.3
Sweet Corn, Fresh	152	0			0.015 - 0.050	0.05
Sweet Corn, Frozen	33	0			0.015 - 0.050	0.05
Sweet Potatoes	54	0			0.015 ^	NT
TOTAL	**4,635**	**1**				
Triclopyr (herbicide)						
Grape Juice	268	0			0.053 ^	NT
Potatoes	744	0			0.030 ^	NT
Spinach	744	0			0.030 ^	NT
Strawberries	483	0			0.053 ^	NT
TOTAL	**2,239**	**0**				
Trifloxystrobin (fungicide)						
Apple Juice	372	0			0.001 - 0.030	0.5
Asparagus	372	0			0.001 - 0.030	0.07
Blueberries (V-1)	726	1	0.1	0.002 ^	0.0004 - 0.001	NT
Blueberries, Frozen	18	0			0.0004 - 0.001	NT
Broccoli	554	0			0.0004 ^	NT
Celery	741	55	7.4	0.0007 - 0.15	0.0004 - 0.001	3.5
Grape Juice	745	0			0.0004 - 0.001	2.0
Green Beans	741	0			0.001 - 0.005	NT
Green Onions	186	0			0.001 ^	NT
Greens, Collard	160	0			0.005 ^	NT
Greens, Kale (V-1)	236	1	0.4	0.013 ^	0.005 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.003	NT
Nectarines	672	26	3.9	0.002 - 0.014	0.001 ^	2
Peaches	616	7	1.1	0.002 - 0.24	0.001 - 0.003	2
Potatoes	744	0			0.001 - 0.003	0.04
Spinach	744	0			0.001 - 0.005	NT
Strawberries	741	0			0.0004 - 0.001	1.1
Summer Squash	554	1	0.2	0.002 ^	0.001 - 0.030	0.50
Sweet Corn, Fresh	152	0			0.001 - 0.030	0.04
Sweet Corn, Frozen	33	0			0.001 - 0.030	0.04
Sweet Potatoes	184	0			0.001 - 0.005	NT
Tomatoes	740	29	3.9	0.002 - 0.016	0.001 ^	0.5
TOTAL	**10,217**	**120**				

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
Triflumizole (fungicide)						
Apple Juice	372	0			0.050 ^	0.5
Asparagus	108	0			0.050 ^	NT
Blueberries	211	0			0.050 ^	NT
Blueberries, Frozen	5	0			0.050 ^	NT
Celery	215	0			0.050 ^	NT
Grape Juice	744	0			0.002 - 0.050	2.5
Green Beans	741	0			0.003 - 0.050	NT
Greens, Collard	240	0			0.003 - 0.050	20
Greens, Kale	318	3	0.9	0.016 - 0.12	0.003 - 0.050	20
Kidney Beans, Canned	54	0			0.050 ^	NT
Peaches	180	0			0.050 ^	NT
Potatoes	108	0			0.050 ^	NT
Spinach	744	0			0.003 - 0.050	NT
Strawberries	741	42	5.7	0.002 - 0.086	0.002 - 0.050	2.0
Summer Squash	554	0			0.050 ^	0.5
Sweet Corn, Fresh	47	0			0.050 ^	NT
Sweet Corn, Frozen	7	0			0.050 ^	NT
Sweet Potatoes	184	0			0.003 - 0.050	NT
TOTAL	**5,573**	**45**				
Trifluralin (herbicide)						
Apple Juice	108	0			0.017 ^	NT
Asparagus	372	0			0.017 - 0.030	0.05
Blueberries	726	0			0.0005 - 0.017	NT
Blueberries, Frozen	18	0			0.0005 - 0.017	NT
Broccoli	295	6	2	0.002 - 0.007	0.002 - 0.080	0.05
Celery	741	22	3	0.0008 - 0.003	0.0005 - 0.017	0.05
Grape Juice	745	0			0.003 - 0.017	0.05
Green Beans	741	0			0.015 - 0.017	0.05
Green Onions	186	0			0.001 ^	0.05
Greens, Collard	240	0			0.015 - 0.017	0.05
Greens, Kale	318	0			0.015 - 0.017	0.05
Kidney Beans, Canned	186	0			0.017 ^	0.05
Nectarines	672	0			0.021 ^	0.05
Peaches	616	0			0.017 ^	0.05
Potatoes	744	0			0.017 ^	0.05
Spinach	744	0			0.015 - 0.017	NT
Strawberries	719	0			0.003 - 0.017	NT
Summer Squash	554	0			0.017 - 0.030	0.05
Sweet Corn, Fresh	47	0			0.017 ^	NT
Sweet Corn, Frozen	7	0			0.017 ^	NT
Sweet Potatoes	184	0			0.015 - 0.017	0.05
Tomatoes	740	0			0.021 ^	0.05
TOTAL	**9,703**	**28**				
Triforine (fungicide)						
Blueberries	515	0			0.003 ^	NT
Blueberries, Frozen	13	0			0.003 ^	NT
Broccoli	554	0			0.003 ^	NT
Celery	526	0			0.003 ^	NT
TOTAL	**1,608**	**0**				
Triticonazole (fungicide)						
Sweet Potatoes	130	0			0.010 ^	NT
TOTAL	**130**	**0**				
Vernolate (herbicide)						
Sweet Potatoes	108	0			0.010 ^	NT
TOTAL	**108**	**0**				
Vinclozolin (fungicide)						
Apple Juice	108	0			0.007 ^	NT
Asparagus	108	0			0.007 ^	2.0

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
Blueberries	726	0			0.004 - 0.007	NT
Blueberries, Frozen	18	0			0.004 - 0.007	NT
Broccoli	554	0			0.004 ^	NT
Celery	741	0			0.004 - 0.007	NT
Grape Juice	745	0			0.007 - 0.020	6.0
Green Beans	215	0			0.007 ^	2.0
Green Onions	186	0			0.004 ^	NT
Kidney Beans, Canned	186	0			0.001 - 0.007	2.0
Peaches	616	0			0.001 - 0.008	NT
Potatoes	416	0			0.001 - 0.007	NT
Spinach	216	0			0.007 ^	NT
Strawberries	741	0			0.007 - 0.020	NT
Summer Squash	158	0			0.007 ^	NT
Sweet Corn, Fresh	47	0			0.007 ^	NT
Sweet Corn, Frozen	7	0			0.007 ^	NT
Sweet Potatoes	54	0			0.007 ^	NT
TOTAL	**5,842**	**0**				
Zoxamide (fungicide)						
Summer Squash	352	0			0.050 ^	1.0
Tomatoes	740	0			0.011 ^	2.0
TOTAL	**1,092**	**0**				

Many of the listed tolerances 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. The cited tolerances apply to 2008 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

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 for some pesticides. Under Food Quality Protection Act, 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.

(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 Almonds

Appendix C shows residue detections for all compounds tested in almonds, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendices apply to 2008 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative.

In 2008, the Pesticide Data Program (PDP) analyzed 186 almond samples. PDP detected 9 different pesticide residues in the almond samples. All residue detections were much lower than the established tolerances.

Action Levels (ALs) are shown in this appendix, where applicable, and denote Action Level values established by the U.S. Food and Drug Administration. Under the Food Quality Protection Act, responsibility for establishing tolerances in lieu of Action Levels has been transferred to EPA. In the interim, Action Levels are used.

EPA tolerances as published in the *Code of Federal Regulations, Title 40, Part 180* are expressed in parts per million (ppm). Because almond residues are expressed in parts per billion (ppb), EPA tolerances 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.

APPENDIX C. DISTRIBUTION OF RESIDUES BY PESTICIDE IN ALMONDS

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*
Acephate	I	186				15 ^	20
Azinphos methyl	I	186				10 ^	200
Azoxystrobin	F	186				2.0 ^	20
Bendiocarb	I	186				4.0 ^	NT
Benoxacor	S	186				5.0 ^	10
Bifenazate	A	186				10 ^	200
Bifenthrin	I	186				1.0 ^	50
Boscalid	F	186	5	2.7	5.8 - 22.6	5.0 ^	700
Buprofezin	I	186				5.0 ^	50
Captan	F	186				10 ^	250
Carbaryl	I	186				15 ^	1000
Carbendazim (MBC)	F	186				1.0 ^	200
Carfentrazone ethyl	H	186				1.0 ^	100
Chlorfenapyr	I	186				1.0 ^	10
Chlorothalonil	F	186				1.0 ^	50
Chlorpyrifos	I	186	66	35.5	1.0 - 47.8	1.0 ^	200
Cyfluthrin	I	186				2.0 ^	50
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	186				1.0 ^	50
Cypermethrin	I	186	2	1.1	6.9 - 9.7	2.0 ^	50
Cyprodinil	F	186				8.0 ^	20
DDE p,p'	IM	186				1.0 ^	NT
Deltamethrin (includes parent Tralomethrin)	I	186				25 ^	100
Diazinon	I	186				1.0 ^	500
Diazinon oxygen analog	IM	186				1.0 ^	500
Dichlorvos (DDVP)	I	186	8	4.3	5.7 - 17.1	5.0 ^	500
Dieldrin	I	186				2.0 ^	NT
Diflubenzuron	I	186				35 ^	60
Endosulfan I	I	186				1.0 ^	300
Endosulfan II	IM	186				1.0 ^	300
Endosulfan sulfate	IM	186				1.0 ^	300
Esfenvalerate+Fenvalerate Total	I	186				1.0 ^	200
Etoxazole	A	186				1.0 ^	10

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*
Fenbuconazole	F	186				5.0 ^	500
Fenhexamid	F	186				10 ^	20
Fenpyroximate	A	186				3.0 ^	100
Fluridone	H	186				10 ^	100
Hexythiazox	I	186				8.0 ^	300
Hydroprene	R	186				5.0 ^	200
Imidacloprid	I	186				10 ^	50
Iprodione	F	186				10 ^	300
Malathion	I	186				2.0 ^	8000
Malathion oxygen analog	IM	186				4.0 ^	8000
Metalaxyl	F	186				2.0 ^	500
Methamidophos	I	186				7.0 ^	20
Methidathion	I	186				5.0 ^	50
Methoxyfenozide	I	186	15	8.1	4.0 - 7.9	4.0 ^	100
Metolachlor	H	186				5.0 ^	100
MGK-264	I	186	10	5.4	5.1 - 19.1	5.0 ^	10000
Myclobutanil	F	186				10 ^	100
Norflurazon	H	186				3.0 ^	100
Oxyfluorfen	H	186				1.0 ^	50
Parathion methyl	I	186				2.0 ^	100
Parathion methyl oxygen analog	IM	186				5.0 ^	100
Pendimethalin	H	186				3.0 ^	100
Permethrin Total	I	186				15 ^	50
Phosalone	I	186				5.0 ^	100
Phosmet	I	186	11	5.9	7.4 - 20.5	5.0 ^	100
Piperonyl butoxide	I	186	69	37.1	2.0 - 167	2.0 ^	10000
Prallethrin	I	186				2.0 ^	1000
Propargite	I	186				10 ^	100
Propetamphos	I	186				5.0 ^	100
Propiconazole	F	186				5.0 ^	100
Pyraclostrobin	F	186				40 ^	40
Pyridaben	I	186				2.0 ^	50
Pyrimethanil	F	186				5.0 ^	200
Pyriproxyfen	I	186	1	0.5	8.1 ^	3.0 ^	20

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*
Sethoxydim	H	186				4.0 ^	200
Simazine	H	186				20 ^	250
Spirodiclofen	A	186				1.0 ^	100
Tebufenozide	I	186				5.0 ^	100
Trifloxystrobin	F	186				1.0 ^	40
Trifluralin	H	186				1.0 ^	50

Many of the listed tolerances 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. The cited tolerances apply to 2008 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

NOTES

* = EPA tolerances 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.

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

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

Pesticide Types:

A = Acaricide

F = Fungicide

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

S = Herbicide Safener

Appendix D

Distribution of Residues by Pesticide in Honey

Appendix D shows residue detections for all compounds tested in honey, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendices apply to 2008 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2008, the Pesticide Data Program (PDP) analyzed 558 honey samples. PDP detected 12 different pesticide residues in the honey samples. All residue detections were lower than the established tolerances for those compounds with established tolerances. Based on PDP results, EPA has concluded that pesticide concentrations in honey did not raise any concerns for human consumption since all detections were low in concentration and therefore, dietary exposure based on honey would be low.

PDP reports tolerance violations to the U.S. 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" column to the right of the pesticide name 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.

EPA tolerances as published in *40 CFR Part 180* are expressed in parts per million (ppm). Because honey residues are expressed in parts per billion (ppb), EPA tolerances 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.

APPENDIX D. DISTRIBUTION OF RESIDUES BY PESTICIDE IN HONEY

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*
Acephate	I	558				50 ^	20
Acetamiprid	I	558				40 ^	NT
Acetochlor	H	558				10 ^	NT
Alachlor	H	558				10 ^	NT
Aldicarb	I	558				4.0 ^	NT
Aldicarb sulfone	IM	558				15 ^	NT
Aldicarb sulfoxide	IM	558				20 ^	NT
Aldrin	I	558				10 ^	NT
Allethrin	I	558				10 ^	NT
Amicarbazone	H	558				30 ^	NT
Amitraz	I	558				4.0 ^	NT
Atrazine	H	558				6.0 ^	NT
Azinphos methyl	I	558				6.0 ^	NT
Azoxystrobin (V-3)	F	558	3	0.5	3.3 - 4.0	2.0 ^	NT
Bendiocarb	I	558				2.0 ^	NT
Benoxacor	S	558				4.0 ^	NT
BHC alpha	I	558				4.0 ^	NT
Bifenazate	A	558				20 ^	NT
Bifenthrin	I	558				2.0 ^	50
Boscalid	F	558				4.0 ^	NT
Bromuconazole	F	558				20 ^	NT
Buprofezin	I	558				20 ^	NT
Captan	F	558				10 ^	NT
Carbaryl	I	558				30 ^	NT
Carbendazim (V-1)	F	558	1	0.2	27.3 ^	5.0 ^	NT
Carbofuran	I	558				5.0 ^	NT
Carboxin	F	558				4.0 ^	NT
Carfentrazone ethyl	H	558				1.0 ^	NT
Chlorfenapyr	I	558				1.0 ^	10
Chlorfenvinphos total	I	558				6.0 ^	NT
Chlorothalonil	F	558				2.0 ^	NT
Chlorpropham	H	558				40 ^	NT
Chlorpyrifos	I	558	1	0.2	1.3 ^	1.0 ^	100
Chlorpyrifos methyl	I	558				1.0 ^	NT
Clofentezine	I	558				100 ^	NT
Clothianidin	I	558				20 ^	NT
Coumaphos	I	558	180	32.3	1.0 - 8.2	1.0 ^	150

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*
Coumaphos oxygen analog	IM	558				5.0 ^	150
Cyfluthrin	I	558				4.0 ^	50
Cyhalothrin, Lambda	I	558				1.0 ^	10
Cypermethrin	I	558				4.0 ^	50
Cyphenothrin	I	558				20 ^	NT
Cyprodinil	F	558				16 ^	NT
DDD p,p'	IM	558				4.0 ^	NT
DDE p,p'	IM	558				2.0 ^	NT
DDT p,p'	I	558				4.0 ^	NT
DEF (Tribufos)	H	558				2.0 ^	NT
Deltamethrin (includes parent Tralomethrin)	I	558				50 ^	50
Diazinon	I	558				1.0 ^	NT
4,4-dibromobenzophenone	A	558				4.0 ^	NT
Dichlorvos (DDVP)	I	558				10 ^	500
Dicloran (V-2)	F	558	2	0.4	1.1 - 1.6	1.0 ^	NT
Dicofol p,p' (V-32)	I	558	32	5.7	1.0 - 90	1.0 ^	NT
Dieldrin	I	558				10 ^	NT
Difenoconazole	F	558				10 ^	NT
Diflubenzuron	I	558				100 ^	NT
Dimethenamid	H	558				10 ^	NT
Dimethoate	I	558				20 ^	NT
Dimethomorph	F	558				20 ^	NT
2,4-dimethyl aniline (2,4 DMA)	I	558				50 ^	NT
2,4-dimethylphenyl formamide (2,4-DMPF)	IM	558	73	13.1	4.1 - 85.1	4.0 ^	1000
Dinotefuran	I	558				30 ^	NT
Diphenamid	H	558				1.0 ^	NT
Endosulfan I	I	558				2.0 ^	NT
Endosulfan II	IM	558				2.0 ^	NT
Endosulfan sulfate	IM	558				2.0 ^	NT
Endrin	I	558				10 ^	NT
Epoxiconazole	F	558				1.0 ^	NT
Esfenvalerate+Fenvalerate Total	I	558				2.0 ^	50
Ethion	I	558				10 ^	NT
Ethofumesate	H	558				5.0 ^	NT
Etoxazole	A	558				1.0 ^	NT
Etridiazole	F	558				10 ^	NT
Famoxadone	F	558				20 ^	NT
Fenamidone	F	558				10 ^	NT

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*
Fenbuconazole	F	558				10 ^	NT
Fenhexamid	F	558				6.0 ^	NT
Fenoxaprop ethyl	H	558				6.0 ^	NT
Fenpropathrin	I	558				10 ^	NT
Fenpyroximate	A	558				5.0 ^	100
Fenthion	I	558				10 ^	NT
Fipronil	I	558				10 ^	NT
Fludioxonil	F	558				100 ^	NT
Fluoxastrobin	F	558				4.0 ^	NT
Fluridone	H	558				50 ^	NT
Flutolanil	F	558				4.0 ^	NT
Fluvalinate	I	558	69	12.4	1.0 - 14.5	1.0 ^	50
Heptachlor	I	558				4.0 ^	NT
Heptachlor epoxide	IM	558				10 ^	NT
Hexachlorobenzene (HCB)	FM	558				1.0 ^	NT
Hexythiazox	I	558				30 ^	NT
Hydroprene	R	558				10 ^	200
3-Hydroxycarbofuran	IM	558				4.0 ^	NT
Imazalil	F	558				5.0 ^	NT
Imidacloprid	I	558				20 ^	NT
Indoxacarb	I	558				30 ^	NT
Iprodione	F	558				20 ^	NT
Lindane (BHC gamma)	I	558				4.0 ^	NT
Linuron	H	558				100 ^	NT
Malathion	I	558				4.0 ^	NT
Metalaxyl	F	558				2.0 ^	NT
Methamidophos	I	558				20 ^	20
Methidathion	I	558				10 ^	NT
Methomyl	I	558				10 ^	NT
Methoxyfenozide (V-1)	I	558	1	0.2	2.8 ^	2.0 ^	NT
Metolachlor	H	558				6.0 ^	NT
Metribuzin	H	558				1.0 ^	NT
MGK-264	I	558				10 ^	10000
MGK-326 (dipropyl isocinchomeronate)	I	558				10 ^	NT
Myclobutanil	F	558				15 ^	NT
1-Naphthol	IM	558				10 ^	NT
Norflurazon	H	558				6.0 ^	NT
Oxamyl	I	558				5.0 ^	NT
Oxyfluorfen	H	558				1.0 ^	NT

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*
Parathion methyl	I	558				2.0 ^	NT
Pendimethalin	H	558				6.0 ^	NT
Permethrin Total (V-1)	I	558	1	0.2	11 ^	10 ^	NT
Phenothrin	I	558				10 ^	NT
Phorate	I	558				10 ^	NT
Phosalone	I	558				10 ^	NT
Phosmet	I	558				10 ^	NT
Piperonyl butoxide	I	558	10	1.8	6.3 - 9.6	6.0 ^	10000
Pirimiphos methyl	I	558				4.0 ^	NT
Prallethrin	I	558				4.0 ^	1000
Profenofos	I	558				10 ^	NT
Pronamide	H	558				1.0 ^	NT
Propachlor	H	558				10 ^	NT
Propanil	H	558				10 ^	NT
Propargite	I	558				10 ^	NT
Propazine	H	558				4.0 ^	NT
Propetamphos	I	558				4.0 ^	100
Propham	H	558				20 ^	NT
Propiconazole	F	558				10 ^	NT
Pyraclostrobin	F	558				15 ^	NT
Pyrethrins	I	558				50 ^	1000
Pyridaben	I	558				1.0 ^	NT
Pyrimethanil	F	558				3.0 ^	NT
Pyriproxyfen	I	558				1.0 ^	100
Quinoxyfen	F	558				10 ^	NT
Quintozene (PCNB)	F	558				1.0 ^	NT
Resmethrin	I	558				10 ^	3000
Sethoxydim	H	558				8.0 ^	NT
Simazine	H	558				10 ^	NT
Spirodiclofen	A	558				1.0 ^	NT
Spiromesifen Total (parent + enol metabolite)	I	558				10 ^	NT
Tebuconazole	F	558				8.0 ^	NT
Tebufenozide	I	558				5.0 ^	NT
Tebuthiuron	H	558				2.0 ^	NT
Tefluthrin	I	558				1.0 ^	NT
Tetrachlorvinphos	I	558				4.0 ^	NT
Tetraconazole	F	558				6.0 ^	NT
Tetradifon	I	558				1.0 ^	NT

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*
Tetrahydrophthalimide (THPI)	FM	558				50 ^	NT
Tetramethrin	I	558				10 ^	NT
Thiabendazole	F	558				4.0 ^	NT
Thiacloprid	I	558				8.0 ^	NT
Thiamethoxam	I	558				20 ^	NT
Triadimefon	F	558				2.0 ^	NT
Triadimenol	F	558				45 ^	NT
Trifloxystrobin	F	558				2.0 ^	NT
Triflumizole	F	558				10 ^	NT
Trifluralin	H	558				1.0 ^	NT
Triticonazole	F	558				10 ^	NT
Vinclozolin (V-3)	F	558	3	0.5	1.3 - 2.1	1.0 ^	NT

Many of the listed tolerances 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. The cited tolerances apply to 2008 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

NOTES

* = EPA tolerances 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.

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

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

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

Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

S = Herbicide Safener

Appendix E

Distribution of Residues by Pesticide in Catfish

Appendix E shows residue detections for all compounds tested in catfish, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendices apply to 2008 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2008, the Pesticide Data Program (PDP) analyzed 552 catfish samples. PDP detected 44 different pesticide residues (including metabolites) in the catfish samples. The majority of these residue detections are not associated with pesticide applications, but rather are most likely attributable to environmental exposure and are covered by Action Levels (ALs) established by the U.S. Food and Drug Administration (FDA). One pesticide detected, diuron, does have a tolerance for farm-raised fin fish in order to cover its use as an aquatic herbicide to control blue-green algal growth which can lead to an off-flavor in farmed catfish. Residues also may be the results of allowed food handling establishment uses. Finally, a number of low level residue findings were reported for residues for which no tolerance was established in fish or catfish. Instead, EPA requires registrants to provide data on fish to assess environmental impact. For these reasons, catfish residue results, along with results from groundwater and drinking water, are excluded when providing overall residue counts.

Action Levels (ALs) are shown in this appendix, where applicable, and denote ALs established by FDA. Under the Food Quality Protection Act, responsibility for establishing tolerances in lieu of ALs has been transferred to EPA. In the interim, ALs are used.

EPA tolerances as published in *40 CFR Part 180* are expressed in parts per million (ppm). Because catfish residues are expressed in parts per billion (ppb), EPA tolerances 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.

APPENDIX E. DISTRIBUTION OF RESIDUES BY PESTICIDE IN CATFISH

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*
Acephate	I	552				10 ^	20
Acetamiprid	I	552				16 ^	NA
Acetochlor	H	552				3.0 ^	NA
Alachlor	H	552				5.0 ^	NA
Aldicarb	I	552				25 ^	NA
Aldicarb sulfone	IM	552				10 ^	NA
Aldicarb sulfoxide	IM	552				8.0 ^	NA
Aldrin	I	552				5.0 ^	300 AL
Allethrin	I	552				5.0 ^	NA
Amicarbazone	H	552				10 ^	NA
Atrazine	H	552	4	0.7	2.0 - 4.8	2.0 ^	NA
Azinphos methyl	I	552				2.0 ^	NA
Azoxystrobin	F	552				1.0 ^	NA
Benfluralin	H	552				1.0 ^	NA
BHC alpha	I	552	4	0.7	1.2 - 7.5	1.0 ^	NA
BHC beta	IM	552				5.0 ^	NA
BHC delta	IM	552				1.0 ^	NA
Bifenazate	A	552				10 ^	NA
Bifenox	H	552				3.0 ^	NA
Bifenthrin	I	552	9	1.6	1.0 - 3.5	1.0 ^	50
Boscalid	F	552				3.0 ^	NA
Bromuconazole	F	552				5.0 ^	NA
Buprofezin	I	552				5.0 ^	NA
Butralin	H	552				2.0 ^	NA
Butylate	H	552				2.0 ^	NA
Captan	F	552				5.0 ^	NA
Carbaryl	I	552				5.0 ^	NA
Carbendazim (MBC)	F	552				2.0 ^	NA
Carbofuran	I	552				2.0 ^	NA
Carbophenothion	I	552				1.0 ^	NA
Carfentrazone ethyl	H	552				1.0 ^	300
Chlordane cis	I	552	6	1.1	1.2 - 2.1	1.0 ^	300 AL
Chlordane trans	I	552	1	0.2	1.0 ^	1.0 ^	300 AL
Chlorethoxyfos	I	552				1.0 ^	NA
Chlorfenapyr	I	552				1.0 ^	10
Chlorobenzilate	A	552				5.0 ^	NA
Chlorothalonil	F	552				2.0 ^	NA
Chloroxuron	H	552				8.0 ^	NA
Chlorpropham	H	552				10 ^	NA
Chlorpyrifos	I	552	38	6.9	1.0 - 16.4	1.0 ^	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*
Chlorpyrifos methyl	I	552	12	2.2	1.0 - 2.9	1.0 ^	NA
Clofentezine	I	552				6.0 ^	NA
Clomazone	H	552				3.0 ^	NA
Clothianidin	I	552				10 ^	NA
Coumaphos	I	552	2	0.4	1.4 - 4.2	1.0 ^	NA
Cyfluthrin	I	552				1.0 ^	50
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	552	6	1.1	1.1 - 2.1	1.0 ^	10
Cypermethrin	I	552	17	3.1	1.0 - 5.3	1.0 ^	50
Cyphenothrin	I	552				5.0 ^	NA
Cyproconazole	F	552				10 ^	NA
Cyprodinil	F	552				3.0 ^	NA
DCPA	H	552	1	0.2	3.6 ^	1.0 ^	NA
DDD o,p'	IM	552	95	17.2	1.0 - 14.2	1.0 ^	5000 AL
DDD p,p'	IM	552	235	42.6	1.0 - 138.3	1.0 ^	5000 AL
DDE o,p'	IM	552	23	4.2	1.0 - 9.6	1.0 ^	5000 AL
DDE p,p'	IM	552	467	84.6	1.0 - 580	1.0 ^	5000 AL
DDT p,p'	I	552	8	1.4	2.0 - 15.1	2.0 ^	5000 AL
DEF (Tribufos)	H	552	10	1.8	1.0 - 6.7	1.0 ^	NA
Deltamethrin (includes parent Tralomethrin)	I	552				10 ^	50
Diazinon	I	552				1.0 ^	NA
Dichlorvos (DDVP)	I	552				3.0 ^	500
Diclofop methyl	H	552	1	0.2	1.1 ^	1.0 ^	NA
Dicloran	F	552				1.0 ^	NA
Dicofol p,p'	I	552	20	3.6	1.0 - 23.3	1.0 ^	NA
Dicrotophos	I	552				3.0 ^	NA
Dieldrin	I	552	8	1.4	7.4 - 15.5	5.0 ^	300 AL
Difenoconazole	F	552				3.0 ^	NA
Diflubenzuron	I	552	3	0.5	2600 - 11600	13 ^	NA
Dimethenamid	H	552				3.0 ^	NA
Dimethoate	I	552				4.0 ^	NA
Dimethomorph	F	552				5.0 ^	NA
2,4-dimethylphenyl formamide (2,4-DMPF)	IM	552				2.0 ^	NA
Dinitramine	H	552				1.0 ^	NA
Dinotefuran	I	552				13 ^	NA
Diphenamid	H	552				1.0 ^	NA
Diphenylamine (DPA)	F	552	133	24.1	1.0 - 47	1.0 ^	NA
Disulfoton	I	552				5.0 ^	NA
Diuron	H	552	44	8	16.6 - 178	16 ^	2000
Endosulfan I	I	552	10	1.8	1.0 - 6.2	1.0 ^	NA
Endosulfan II	IM	552	2	0.4	1.5 - 3.5	1.0 ^	NA
Endosulfan sulfate	IM	552	36	6.5	1.0 - 20.1	1.0 ^	NA

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*
Endrin	I	552				5.0 ^	NA
EPN	I	552				1.0 ^	NA
Epoxiconazole	F	552				1.0 ^	NA
Esfenvalerate+Fenvalerate Total	I	552	1	0.2	1.0 ^	1.0 ^	50
Ethalfluralin	H	552				1.0 ^	NA
Ethofumesate	H	552				4.0 ^	NA
Etoxazole	A	552				1.0 ^	NA
Etridiazole	F	552				3.0 ^	NA
Famoxadone	F	552	3	0.5	10.2 - 11.8	10 ^	NA
Fenamidone	F	552				3.0 ^	NA
Fenamiphos	I	552				2.0 ^	NA
Fenarimol	F	552				1.0 ^	NA
Fenbuconazole	F	552				4.0 ^	NA
Fenhexamid	F	552				2.0 ^	NA
Fenitrothion	I	552				1.0 ^	NA
Fenoxaprop ethyl	H	552				2.0 ^	NA
Fenoxycarb	I	552				10 ^	NA
Fenpropathrin	I	552				5.0 ^	NA
Fenpyroximate	A	552				2.0 ^	NA
Fenthion	I	552				3.0 ^	NA
Fipronil	I	552				3.0 ^	NA
Fluazifop butyl	H	552				1.0 ^	NA
Fluchloralin	H	552				2.0 ^	NA
Flucythrinate	I	552				5.0 ^	NA
Flumetralin	P	552				1.0 ^	NA
Flumiclorac pentyl	H	552				3.0 ^	NA
Fluoxastrobin	F	552				2.0 ^	NA
Fluridone	H	552				5.0 ^	500
Fluroxypyr 1-methylheptyl ester	H	552				1.0 ^	NA
Flutolanil	F	552				1.0 ^	NA
Fluvalinate	I	552	3	0.5	1.0 - 3.9	1.0 ^	NA
Heptachlor	I	552				5.0 ^	300 AL
Heptachlor epoxide	IM	552				5.0 ^	300 AL
Hexachlorobenzene (HCB)	FM	552	3	0.5	1.0 - 5.1	1.0 ^	NA
Hexaconazole	F	552				10 ^	NA
Hexazinone	H	552				6.0 ^	NA
Hydroprene	R	552				3.0 ^	200
3-Hydroxycarbofuran	IM	552				4.0 ^	NA
Imazalil	F	552				4.0 ^	NA
Imidacloprid	I	552				10 ^	NA
Imiprothrin	I	552				10 ^	NA
Indoxacarb	I	552				13 ^	NA

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*
Iprodione	F	552				5.0 ^	NA
Isopropalin	H	552				2.0 ^	NA
Isoxaflutole	H	552				3.0 ^	NA
Lactofen	H	552				3.0 ^	NA
Lindane (BHC gamma)	I	552	2	0.4	2.1 - 2.7	2.0 ^	NA
Linuron	H	552				5.0 ^	NA
Malathion	I	552				1.0 ^	NA
Metalaxyl	F	552				2.0 ^	NA
Methamidophos	I	552				10 ^	20
Methidathion	I	552				3.0 ^	NA
Methomyl	I	552				6.0 ^	NA
Methoxychlor p,p'	IM	552				2.0 ^	NA
Methoxyfenozide	I	552				2.0 ^	NA
Metolachlor	H	552	1	0.2	4.4 ^	2.0 ^	NA
Metribuzin	H	552				1.0 ^	NA
Mevinphos Total	I	552				10 ^	NA
MGK-264	I	552	3	0.5	9.0 - 27.8	5.0 ^	10000
MGK-326 (dipropyl isocinchomeronate)	I	552				3.0 ^	NA
Mirex	I	552				2.0 ^	100
Myclobutanil	F	552				10 ^	NA
1-Naphthol	IM	552				3.0 ^	NA
Nitrofen	H	552				1.0 ^	NA
Nonachlor cis	IM	552	6	1.1	1.4 - 2.3	1.0 ^	NA
Nonachlor trans	IM	552	7	1.3	1.0 - 4.6	1.0 ^	NA
Norflurazon	H	552				2.0 ^	NA
Oxadiazon	H	552	2	0.4	2.9 - 6.5	2.0 ^	NA
Oxamyl	I	552				6.0 ^	NA
Oxamyl oxime	IM	552				16 ^	NA
Oxychlordane	IM	552				2.0 ^	NA
Oxyfluorfen	H	552				1.0 ^	NA
Oxythioquinox	I	552				3.0 ^	NA
Parathion ethyl	I	552				2.0 ^	NA
Parathion methyl	I	552				1.0 ^	NA
Pendimethalin	H	552	27	4.9	2.0 - 18.1	2.0 ^	NA
Pentachloroaniline (PCA)	FM	552	25	4.5	1.0 - 24.3	1.0 ^	NA
Permethrin Total	I	552				3.0 ^	NA
Phenmedipham	H	552				13 ^	NA
Phenothrin	I	552				3.0 ^	NA
Phorate	I	552				3.0 ^	NA
Phosalone	I	552				3.0 ^	NA
Phosmet	I	552				3.0 ^	NA
Piperalin	F	552				3.0 ^	NA

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*
Piperonyl butoxide	I	552	1	0.2	4.3 ^	2.0 ^	10000
Pirimicarb	I	552				2.0 ^	NA
Pirimiphos methyl	I	552	6	1.1	1.4 - 13.2	1.0 ^	NA
Prallethrin	I	552				2.0 ^	1000
Prodiamine	H	552				1.0 ^	NA
Profenofos	I	552				3.0 ^	NA
Pronamide	H	552				1.0 ^	NA
Propachlor	H	552				3.0 ^	NA
Propargite	I	552				5.0 ^	NA
Propazine	H	552				1.0 ^	NA
Propetamphos	I	552				1.0 ^	100
Propham	H	552				5.0 ^	NA
Propiconazole	F	552				3.0 ^	NA
Propoxur	I	552				25 ^	NA
Pyraclostrobin	F	552				15 ^	NA
Pyrethrins	I	552				10 ^	1000
Pyridaben	I	552				1.0 ^	NA
Pyrimethanil	F	552				4.0 ^	NA
Quinoxyfen	F	552				3.0 ^	NA
Quintozene (PCNB)	F	552				1.0 ^	NA
Resmethrin	I	552				3.0 ^	3000
Rotenone	I	552				8.0 ^	NA
Sethoxydim	H	552				2.0 ^	NA
Simazine	H	552				3.0 ^	NA
Spirodiclofen	A	552				1.0 ^	NA
Spiromesifen Total (parent + enol metabolite)	I	552				5.0 ^	NA
Sulprofos	I	552				2.0 ^	NA
Tebuconazole	F	552				3.0 ^	NA
Tebufenozide	I	552				25 ^	NA
Tebupirimfos	I	552				1.0 ^	NA
Tebuthiuron	H	552				2.0 ^	NA
Tefluthrin	I	552				1.0 ^	NA
Temephos	I	552				4.0 ^	NA
Terbufos	I	552				5.0 ^	NA
Terbutryn	H	552	1	0.2	25.8 ^	1.0 ^	NA
Tetrachlorvinphos	I	552				2.0 ^	NA
Tetraconazole	F	552				2.0 ^	NA
Tetradifon	I	552				1.0 ^	NA
Tetrahydrophthalimide (THPI)	FM	552				12 ^	NA
Tetramethrin	I	552				3.0 ^	NA
Thiabendazole	F	552	1	0.2	3.1 ^	2.0 ^	NA
Thiacloprid	I	552				2.0 ^	NA

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*
Thiamethoxam	I	552				20 ^	NA
Thiobencarb	H	552				10 ^	NA
Thiodicarb	I	552				50 ^	NA
Tolclofos methyl	F	552				3.0 ^	NA
Toxaphene	I	552	52	9.4	50 - 449	50 ^	NA
Tri Allate	H	552				2.0 ^	NA
Triadimefon	F	552				2.0 ^	NA
Tridiphane	H	552				2.0 ^	NA
Trifloxystrobin	F	552				1.0 ^	NA
Triflumizole	F	552				1.0 ^	NA
Trifluralin	H	552	15	2.7	1.1 - 10.8	1.0 ^	NA
Triticonazole	F	552				3.0 ^	NA
Vinclozolin	F	552				1.0 ^	NA

Many of the listed tolerances 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. The cited tolerances apply to 2008 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

NOTES

* = EPA tolerances 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.

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

NA = Findings in catfish are covered by tolerances established for fish, by tolerances set for pesticide uses in food handling establishments, and by action levels set for persistent chemicals commonly found in the enviroment. In addition, there are other findings that may arise from a number of attributable sources including runoff from agricultural uses to water sources or ponds. For the latter group, where no specific tolerance has been established, “NA” has been entered as the tolerance value.

AL = Numbers shown are Action Levels established by FDA 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:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

P = Plant Growth Regulator

R = Insect Growth Regulator

Appendix F

Distribution of Residues by Pesticide in Corn Grain

Appendix F shows residue detections for all compounds tested in corn grain, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendices apply to 2008 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

The Pesticide Data Program (PDP) analyzed 650 corn grain samples for the 2007 crop year (harvested between September 2007 and April 2008 and collected between September 2007 and June 2008). PDP detected 15 different pesticide residues (including metabolites) in the corn grain samples.

Action Levels (ALs) are shown in this appendix, where applicable, and denote AL values established by the U.S. Food and Drug Administration (FDA). Under the Food Quality Protection Act, responsibility for establishing tolerances in lieu of ALs has been transferred to EPA. In the interim, ALs are used.

PDP reports tolerance violations to 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” column to the right of the pesticide name 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, Title 40, Part 180]. In both cases, these annotations are followed by a number indicating the number of samples reported to FDA.

APPENDIX F. DISTRIBUTION OF RESIDUES BY PESTICIDE IN CORN GRAIN

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Acetochlor	H	650				0.002 ^	0.05
Alachlor	H	650				0.002 - 0.004	0.2
Aldrin	I	630				0.001 ^	0.02 AL
Ametryn	H	650	1	0.2	0.011 ^	0.003 ^	0.25
Amicarbazone	H	630				0.050 ^	0.05
Atrazine	H	650				0.004 ^	0.2
Azoxystrobin	F	591				0.002 - 0.006	0.05
Bendiocarb	I	511				0.003 ^	NT
Benoxacor	S	650				0.001 ^	0.01
BHC alpha	I	650				0.001 ^	0.1 AL
Bifenthrin	I	650				0.004 ^	0.05
Boscalid	F	590				0.001 ^	0.2
Carbaryl	I	515				0.003 ^	0.2
Carbofuran	I	650				0.003 ^	0.2
Carboxin	F	616				0.002 ^	0.2
Carfentrazone ethyl	H	630				0.001 ^	0.10
Chlordane cis	I	650				0.001 ^	0.1 AL
Chlordane trans	I	650				0.008 ^	0.1 AL
Chlorpyrifos	I	650	116	17.8	0.002 - 0.004	0.001 ^	0.1
Clothianidin	I	644				0.003 - 0.010	0.01
Cyanazine	H	536				0.002 ^	NT
Cyfluthrin	I	630	4	0.6	0.013 - 0.087	0.008 ^	4
Cyhalothrin, Lambda	I	650				0.002 ^	0.05
Cyhalothrin, Lambda epimer R157836	I	650				0.003 ^	0.05
Cypermethrin	I	650				0.015 ^	0.05
DDD p,p'	IM	645	6	0.9	0.003 ^	0.002 ^	0.5 AL
DDE p,p'	IM	650	2	0.3	0.002 ^	0.001 ^	0.5 AL
DDT p,p'	I	650				0.006 ^	0.5 AL
Deltamethrin (includes parent Tralomethrin)	I	590				0.012 ^	1
Diazinon	I	504				0.001 ^	0.7
Diazinon oxygen analog	IM	465				0.001 ^	0.7

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Dieldrin	I	636				0.004 ^	0.03 AL
Difenoconazole	F	396				0.004 ^	NT
Dimethenamid	H	650				0.001 ^	0.01
Dimethoate	I	650				0.008 ^	0.1
Dimethomorph	F	531				0.003 - 0.004	0.05
Diuron	H	650				0.003 ^	1
Endosulfan I	I	610				0.004 ^	0.2
Endosulfan II	IM	630				0.002 ^	0.2
Endosulfan sulfate	IM	590				0.001 - 0.002	0.2
Esfenvalerate	I	528				0.002 ^	0.05
Ethoprop	I	630	1	0.2	0.003 ^	0.002 ^	0.02
Fipronil	I	630				0.012 ^	0.02
Fludioxonil	F	596				0.008 ^	0.02
Flufenacet	H	650				0.003 - 0.004	0.1
Flumiclorac pentyl	H	645				0.006 ^	0.01
Fluridone	H	336				0.012 ^	0.1
Fluthiacet methyl	H	531				0.050 ^	0.01
Fonofos	I	631				0.004 ^	NT
Furilazole	S	650				0.012 ^	0.01
Heptachlor	I	630				0.004 ^	0.01 AL
Heptachlor epoxide	IM	650	1	0.2	0.008 ^	0.002 ^	0.01 AL
Hexythiazox	I	650				0.006 ^	0.05
Hydroprene	R	616				0.006 ^	0.2
3-Hydroxycarbofuran	IM	590				0.006 ^	0.2
Imidacloprid	I	650				0.006 - 0.010	0.05
Indoxacarb	I	590				0.004 ^	NT
Isoxadifen ethyl	S	650				0.010 ^	0.08
Lindane (BHC gamma)	I	650				0.010 ^	0.1
Linuron	H	650				0.003 - 0.024	0.1
Malathion	I	650	219	33.7	0.003 - 4.7	0.002 ^	8
Malathion oxygen analog	IM	630	1	0.2	0.024 ^	0.004 ^	8
Metalaxyl	F	650	1	0.2	0.007 ^	0.004 ^	0.1
Methamidophos	I	348				0.010 ^	0.02
Methomyl	I	631				0.003 ^	0.1

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Methoxychlor p,p' (V-2)	IM	650	2	0.3	0.010 ^	0.006 ^	NT
Methoxyfenozide	I	597				0.006 ^	0.05
Metolachlor	H	630	2	0.3	0.007 ^	0.004 ^	0.1
Metribuzin	H	650				0.008 ^	0.05
Myclobutanil	F	495				0.002 ^	0.03
Omethoate	IM	570				0.012 ^	0.1
Oxydemeton methyl sulfone	IM	302				0.004 ^	NT
Oxyfluorfen	H	618				0.002 ^	0.05
Parathion ethyl	I	630				0.008 ^	NT
Parathion methyl	I	590				0.004 ^	1
Parathion methyl oxygen analog	IM	524				0.002 ^	1
Parathion oxygen analog	IM	650				0.060 ^	NT
Pendimethalin	H	650				0.012 ^	0.1
Permethrin Total (X-1)	I	650	37	5.7	0.023 - 0.088	0.014 ^	0.05
Phorate	I	576				0.016 ^	0.1
Phorate sulfone	IM	636				0.004 ^	0.1
Phorate sulfoxide	IM	590				0.002 ^	0.1
Piperonyl butoxide	I	630	17	2.7	0.003 - 0.060	0.002 ^	20
Pirimiphos methyl	I	382	12	3.1	0.002 - 0.63	0.001 ^	8
Prallethrin	I	331				0.016 ^	1
Prometryn	H	650				0.003 ^	0.25
Propachlor oxanilic acid (OA)	HM	650				0.002 ^	0.2
Propargite	I	625				0.004 ^	0.1
Propetamphos	I	650				0.004 ^	0.1
Propiconazole	F	504				0.008 ^	0.2
Pyraclostrobin	F	650				0.003 ^	0.1
Pyraflufen ethyl	H	650				0.006 ^	0.01
Pyriproxyfen	I	444				0.002 ^	1.1
Resmethrin	I	548				0.001 ^	3
Simazine	H	590				0.003 ^	0.2
Spinosad A	IM	650				0.010 ^	1.5
Spinosad D	IM	650				0.010 ^	1.5
Spiromesifen Total (parent + enol metabolite)	I	598				0.002 ^	0.02

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
TCMTB	F	460				0.004 ^	0.1
Tefluthrin	I	650				0.003 ^	0.06
Terbufos	I	610				0.008 ^	0.05
Terbufos sulfone	IM	650				0.008 ^	0.05
Thiamethoxam	I	393				0.001 ^	0.02
Triadimenol	F	402				0.024 ^	0.05
Trifloxystrobin	F	650				0.003 ^	0.05
Trifluralin	H	610				0.002 ^	0.05

Many of the listed tolerances 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. The cited tolerances apply to 2008 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

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 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.

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

Pesticide Types:

F = Fungicide

H = Herbicide, H = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

S = Herbicide Safener

Appendix G

Distribution of Residues by Pesticide in Rice

Appendix G shows residue detections for all compounds tested in rice, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendices apply to 2008 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2008, the Pesticide Data Program (PDP) analyzed 184 rice samples. PDP detected 13 different pesticide residues (including metabolites) in the rice samples.

Action Levels (ALs) are shown in this appendix, where applicable, and denote AL values established by the U.S. Food and Drug Administration. Under the Food Quality Protection Act, responsibility for establishing tolerances in lieu of ALs has been transferred to EPA. In the interim, ALs are used.

APPENDIX G. DISTRIBUTION OF RESIDUES BY PESTICIDE IN RICE

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Acetochlor	H	184				0.003 ^	0.05
Aldrin	I	164				0.003 ^	0.3 AL
Allethrin	I	184				0.010 ^	NT
Azinphos methyl	I	162				0.050 ^	NT
Azinphos methyl oxygen analog	IM	181				0.010 ^	NT
Azoxystrobin	F	181	1	0.6	0.011 ^	0.010 ^	5
Benoxacor	S	182				0.020 ^	0.01
BHC alpha	I	184				0.003 ^	0.05 AL
Bifenthrin	I	184				0.001 ^	0.05
Boscalid	F	184				0.003 ^	0.2
Carbaryl	I	184	2	1.1	0.032 - 0.067	0.010 ^	15
Carbendazim (MBC)	F	181				0.003 ^	5
Carbofuran	I	184				0.003 ^	0.2
Carboxin	F	184				0.006 ^	0.2
Carfentrazone ethyl	H	184				0.001 ^	1.3
Chlorpyrifos	I	182				0.010 ^	NT
Chlorpyrifos methyl	I	181				0.10 ^	6
Chlorpyrifos methyl O-analog	IM	182				0.006 ^	6
Chlorpyrifos oxygen analog	IM	182				0.006 ^	NT
Clomazone	H	184				0.006 ^	0.02
Cyfluthrin	I	184				0.006 ^	4
Cyhalofop butyl	H	184				0.001 ^	0.03
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	184				0.012 ^	1
Cypermethrin	I	184				0.030 ^	1.5
Cyphenothrin	I	184				0.003 ^	NT
DDD p,p'	IM	105	1	1	0.002 ^	0.001 ^	0.5 AL
DDT p,p'	I	184	1	0.5	0.005 ^	0.003 ^	0.5 AL
Deltamethrin (includes parent Tralomethrin)	I	169				0.006 ^	1
Dieldrin	I	184				0.003 ^	0.02 AL
Diflubenzuron	I	182				0.020 ^	0.02
Dimethomorph	F	184				0.006 ^	0.05

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Endosulfan I	I	149				0.003 ^	NT
Endosulfan II	IM	184				0.003 ^	NT
Endosulfan sulfate	IM	184				0.001 ^	NT
EPTC	H	184				0.010 ^	0.1
Esfenvalerate	I	184				0.006 ^	0.05
Fenbuconazole	F	184				0.006 ^	NT
Fenoxaprop ethyl	H	184				0.001 ^	0.05
Fenpropathrin	I	184				0.003 ^	NT
Fipronil	I	181				0.10 ^	0.04
Fludioxonil	F	184	1	0.5	0.010 ^	0.006 ^	0.02
Fluridone	H	184				0.030 ^	0.1
Flutolanil	F	184				0.003 ^	7
Fluvalinate	I	184				0.003 ^	NT
Heptachlor	I	184				0.003 ^	0.01 AL
Heptachlor epoxide	IM	184				0.001 ^	0.01 AL
Hydroprene	R	184	1	0.5	0.010 ^	0.006 ^	0.2
3-Hydroxycarbofuran	IM	184				0.010 ^	0.2
Imidacloprid	I	184				0.010 ^	0.05
Imiprothrin	I	182				0.020 ^	NT
Iprodione	F	184				0.003 ^	10
Isoxadifen ethyl	S	184				0.010 ^	0.1
Lindane (BHC gamma)	I	184	1	0.5	0.010 ^	0.006 ^	0.5 AL
Malathion	I	184	8	4.3	0.017 ^	0.010 ^	8
Malathion oxygen analog	IM	184				0.006 ^	8
Metalaxyl	F	182				0.006 ^	0.1
Methamidophos	I	164				0.020 ^	NT
Methomyl	I	184				0.010 ^	NT
Metolachlor	H	184				0.006 ^	0.1
MGK-264	I	184	27	14.7	0.050 - 0.33	0.030 ^	10
Myclobutanil	F	184	1	0.5	0.005 ^	0.003 ^	0.03
Parathion methyl	I	184	1	0.5	0.017 ^	0.010 ^	1
Parathion methyl oxygen analog	IM	184				0.006 ^	1
Pendimethalin	H	182				0.10 ^	0.1
Permethrin Total	I	184				0.10 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Phenothrin	I	184				0.003 ^	NT
Piperonyl butoxide	I	184	57	31	0.010 - 20.8	0.006 ^	20
Propanil	H	184				0.003 ^	10
Propetamphos	I	184				0.003 ^	0.1
Propiconazole	F	184				0.010 ^	7
Pyriproxyfen	I	182				0.003 ^	1.1
Resmethrin	I	184	4	2.2	0.005 - 0.012	0.003 ^	3
Spinosad A	IM	183				0.020 ^	1.5
Spinosad D	IM	184				0.020 ^	1.5
TCMTB	F	181				0.020 ^	0.1
Tefluthrin	I	184				0.003 ^	NT
Tetrahydrophthalimide (THPI)	FM	164				0.10 ^	0.05
Tetramethrin	I	184				0.030 ^	NT
Thiobencarb	H	181				0.010 ^	0.2
Trifloxystrobin	F	182				0.006 ^	3.5
Trifluralin	H	184				0.003 ^	NT

Many of the listed tolerances 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. The cited tolerances apply to 2008 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

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 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

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

S = Herbicide Safener

Appendix H

Distribution of Residues by Pesticide in Groundwater

Appendix H shows residue detections for all compounds tested in groundwater, including range of values detected and range of Limits of Detection (LODs) for each pair in parts per trillion (ppt).

In 2008, the Pesticide Data Program (PDP) analyzed 249 groundwater samples from 135 collection sites (private wells). PDP detected 37 different pesticide residues (including metabolites) in the groundwater samples. Most of the detections were for herbicides. The samples with detectable residues came from 59 different sites.

APPENDIX H. DISTRIBUTION OF RESIDUES BY PESTICIDE IN GROUNDWATER

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
2,4-D	H	249	3	1.2	4.2 - 120	2.5 ^
2,4-DB	H	249				4.0 ^
Acetochlor	H	249				10 ^
Acetochlor ethanesulfonic acid (ESA)	HM	249	5	2	15 - 1750	9.0 ^
Acetochlor oxanilic acid (OA)	HM	249	1	0.4	1030 ^	10 ^
Alachlor	H	249	3	1.2	147 - 168	10 ^
Alachlor ethanesulfonic acid (ESA)	HM	249	28	11.2	20.8 - 2550	12.5 ^
Alachlor oxanilic acid (OA)	HM	249	14	5.6	17 - 709	10 ^
Atrazine	H	249	12	4.8	17 - 230	10 ^
Bensulfuron methyl	H	249				5.0 ^
Bentazon	H	23	23	100	0.30 - 1310	0.30 ^
Boscalid	F	249				100 ^
Bromacil	H	249	16	6.4	10 - 7720	6.0 ^
Carbaryl	I	249	1	0.4	27.5 ^	7.5 ^
Carbofuran	I	249				4.0 ^
Chlorimuron ethyl	H	249				6.0 ^
Chlorothalonil	F	249				30 ^
Chlorpyrifos	I	249				30 ^
Clomazone	H	249				30 ^
Clopyralid	H	249				12.5 ^
Cyanazine	H	249				50 ^
DCPA	H	249				30 ^
Desethyl atrazine	HM	249	17	6.8	17 - 576	10 ^
Desethyl-desisopropyl atrazine	HM	249	8	3.2	25 - 244	15 ^
Desisopropyl atrazine	HM	249	5	2	83 ^	50 ^
Diazinon	I	249	1	0.4	50 ^	30 ^
Dichlobenil	H	249				5.0 ^
Dimethenamid	H	249				10 ^
Dimethenamid ethanesulfonic acid (ESA)	HM	249	2	0.8	7.4 - 193	2.0 ^
Dimethenamid oxanilic acid (OA)	HM	249	2	0.8	7.4 - 13	3.0 ^
Dimethoate	I	249				50 ^
Disulfoton sulfone	IM	249				6.0 ^
Diuron	H	249	8	3.2	7.0 - 58.9	4.0 ^
EPTC	H	249				30 ^

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Ethalfluralin	H	249				30 ^
Flufenacet oxanilic acid (OA)	HM	249	1	0.4	21.3 ^	2.5 ^
Fluometuron	H	249	8	3.2	83 - 229	50 ^
Fonofos	I	249				30 ^
Halosulfuron	H	249				9.0 ^
Hydroxy atrazine	HM	249	32	12.9	3.0 - 255	2.0 ^
Imazamethabenz acid	H	249				3.0 ^
Imazamethabenz methyl	H	249				1.5 ^
Imazamox	H	249				4.0 ^
Imazapic	H	249	3	1.2	5.0 - 16.6	3.0 ^
Imazapyr	H	249	15	6	4.2 - 3054	2.5 ^
Imazaquin	H	249	2	0.8	8.0 ^	5.0 ^
Imazethapyr	H	249	1	0.4	3.0 ^	2.0 ^
Linuron	H	249				6.0 ^
Malathion	I	249	2	0.8	50 - 226	30 ^
Malathion oxygen analog	IM	249				300 ^
MCPA	H	249				1.5 ^
MCPB	H	249	1	0.4	5.0 ^	3.0 ^
Metalaxyl	F	249	12	4.8	4.2 - 2270	2.5 ^
Methidathion	I	249				100 ^
Methidathion oxygen analog	IM	249				700 ^
Metolachlor	H	249	3	1.2	25 - 178	15 ^
Metolachlor ethanesulfonic acid (ESA)	HM	249	50	20.1	5.0 - 5920	3.0 ^
Metolachlor oxanilic acid (OA)	HM	249	25	10	3.8 - 3360	3.0 ^
Metribuzin	H	249				30 ^
Metsulfuron methyl	H	249				7.0 ^
Myclobutanil	F	249				50 ^
Neburon	H	249				3.0 ^
Nicosulfuron	H	249				8.0 ^
Parathion methyl	I	249				30 ^
Pendimethalin	H	249				30 ^
Permethrin cis	IM	249				50 ^
Permethrin trans	IM	249				50 ^
Phorate	I	249				30 ^
Phorate oxygen analog	IM	249				50 ^

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Phorate sulfone	IM	249				100 ^
Phorate sulfoxide	IM	249				100 ^
Picloram	H	249	1	0.4	20.8 ^	12.5 ^
Prometon	H	249	1	0.4	50 ^	30 ^
Prometryn	H	249				1.0 ^
Propachlor	H	249				30 ^
Propachlor oxanilic acid (OA)	HM	249	1	0.4	5.0 ^	3.0 ^
Propanil	H	249				30 ^
Propazine	H	249				30 ^
Propiconazole	F	249	1	0.4	191.6 ^	50 ^
Propoxur	I	249				3.0 ^
Siduron	H	249	1	0.4	43.5 ^	2.0 ^
Simazine	H	249	1	0.4	50 ^	30 ^
Sulfometuron methyl	H	249				2.5 ^
Tebuconazole	F	249				50 ^
Tebupirimfos	I	249				30 ^
Tebuthiuron	H	249	4	1.6	50 - 74	30 ^
Terbufos	I	249				30 ^
Tetraconazole	F	249				30 ^
Thifensulfuron	H	249				5.0 ^
Thiobencarb	H	249				2.5 ^
Tri Allate	H	249				30 ^
Triasulfuron	H	249				7.0 ^
Trifluralin	H	249				30 ^
Triticonazole	F	249				500 ^

NOTES

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

Pesticide Types:

F = Fungicide

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

Appendix I

Distribution of Residues by Pesticide in Drinking Water

Appendix I shows residue detections for all compounds tested in drinking water, including range of values detected and range of Limits of Detection (LODs). The U.S. 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 2008, the Pesticide Data Program (PDP) analyzed 619 drinking water samples, including 310 finished drinking water samples and 309 untreated (raw intake) drinking water samples. PDP detected 59 different pesticide residues in finished drinking water and 63 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 non-carcinogenic 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/wqctable/index.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 I. 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]
2,4,5-T	H								
Water, Finished		309				1.6 - 1.8			
Water, Untreated		308				1.6 - 1.8			
2,4-D	H								
Water, Finished		309	261	84.5	1.1 - 1102	0.65 - 3.6	70,000		
Water, Untreated		308	268	87	1.1 - 3521	0.65 - 3.6			
2,4-DB	H								
Water, Finished		309	1	0.3	23 ^	14 - 30			
Water, Untreated		308				14 - 30			
Acetochlor	H								
Water, Finished		310	28	9	15.3 - 82.4	9.2 - 49.5			
Water, Untreated		309	38	12.3	15.3 - 660	9.2 - 49.5			
Acetochlor ethanesulfonic acid (ESA)	HM								
Water, Finished		309	117	37.9	2.7 - 1100	1.6 - 4.8			
Water, Untreated		308	120	39	2.7 - 1100	1.6 - 4.8			
Acetochlor oxanilic acid (OA)	HM								
Water, Finished		309	79	25.6	2.3 - 1300	1.4 - 4.8			
Water, Untreated		308	84	27.3	2.3 - 1300	1.4 - 4.8			
Alachlor	H								
Water, Finished		310				7.8 - 9.8	2,000		
Water, Untreated		309	2	0.6	16.3 ^	7.8 - 9.8			
Alachlor ethanesulfonic acid (ESA)	HM								
Water, Finished		309	164	53.1	2.8 - 120	1.7 - 4.8			
Water, Untreated		308	172	55.8	2.8 - 110	1.7 - 4.8			
Alachlor oxanilic acid (OA)	HM								
Water, Finished		309	99	32	1.0 - 61	0.61 - 4.8			
Water, Untreated		308	119	38.6	1.0 - 58	0.61 - 4.8			
Aldicarb	I								
Water, Finished		100				5.3 ^	3,000	7,000	
Water, Untreated		100				5.3 ^			
Aldrin	I								
Water, Finished		190				9.6 ^			
Water, Untreated		189				9.6 ^			3,000
Atrazine	H								
Water, Finished		309	290	93.9	1.1 - 1624	0.66 - 2.3	3,000		
Water, Untreated		309	290	93.9	1.1 - 2800	0.66 - 2.2			
Azinphos methyl	I								
Water, Finished		309	2	0.6	17 ^	10 - 22.5			
Water, Untreated		309				10 - 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]
Azinphos methyl oxygen analog	IM								
Water, Finished		189				8.7 ^			
Water, Untreated		189				8.7 ^			
Benfluralin	H								
Water, Finished		70				15 ^			
Water, Untreated		70				15 ^			
Bensulfuron methyl	H								
Water, Finished		230				1.2 - 1.5			
Water, Untreated		229				1.2 - 1.5			
Bentazon	H								
Water, Finished		309	90	29.1	0.30 - 11	0.18 - 1.2		200,000	
Water, Untreated		308	143	46.4	0.30 - 150	0.18 - 1.2			
Bifenthrin	I								
Water, Finished		190	1	0.5	5.3 ^	3.2 ^			
Water, Untreated		189				3.2 ^			
Bromacil	H								
Water, Finished		309	1	0.3	69 ^	2.5 - 9.6		70,000	
Water, Untreated		308	24	7.8	4.2 - 210	2.5 - 9.6			
Bromoxynil	H								
Water, Finished		120				6.0 ^			
Water, Untreated		119				6.0 ^			
Bromuconazole 46	FM								
Water, Finished		189				3.2 ^			
Water, Untreated		189				3.2 ^			
Bromuconazole 47	FM								
Water, Finished		189				5.4 ^			
Water, Untreated		189				5.4 ^			
Butachlor	H								
Water, Finished		310				1.9 - 5.3			
Water, Untreated		309				1.9 - 5.3			
Butylate	H								
Water, Finished		190				1.8 ^		400,000	
Water, Untreated		189				1.8 ^			
Carbaryl	I								
Water, Finished		309	2	0.6	38 - 300	12 - 23			
Water, Untreated		308	3	1	20 - 330	12 - 23			
Carbendazim (MBC)	F								
Water, Finished		120				1.8 ^			
Water, Untreated		119	28	23.5	3.0 - 121	1.8 ^			
Carbofuran	I								
Water, Finished		309	4	1.3	2.0 ^	0.60 - 1.0	40,000		
Water, Untreated		308	3	1	2.0 ^	0.60 - 1.0			
Carbophenothion	I								
Water, Finished		120				5.3 - 7.5			
Water, Untreated		120				5.3 - 7.5			

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]
Chloramben	H								
Water, Finished		120				60 ^		100,000	
Water, Untreated		119				60 ^			
Chlordane cis	I								
Water, Finished		120				2.3 ^	2,000		
Water, Untreated		120				2.3 ^			2,400
Chlordane trans	I								
Water, Finished		120				2.3 ^	2,000		
Water, Untreated		120				2.3 ^			2,400
Chlorfenvinphos total	I								
Water, Finished		310				7.5 - 9.6			
Water, Untreated		309				7.5 - 9.6			
Chlorimuron ethyl	H								
Water, Finished		301	32	10.6	14 - 78	8.4 - 13			
Water, Untreated		300	28	9.3	14 - 347	8.4 - 13			
Chlorpyrifos	I								
Water, Finished		120				6.0 - 7.5		2,000	
Water, Untreated		120				6.0 - 7.5			83
Chlorpyrifos methyl	I								
Water, Finished		120				11.3 ^			
Water, Untreated		120				11.3 ^			
Clopyralid	H								
Water, Finished		309	72	23.3	5.7 - 89	3.4 - 30			
Water, Untreated		308	60	19.5	5.7 - 280	3.4 - 30			
Coumaphos	I								
Water, Finished		120				12 ^			
Water, Untreated		120				12 ^			
Coumaphos oxygen analog	IM								
Water, Finished		55				30 ^			
Water, Untreated		55				30 ^			
Cyanazine	H								
Water, Finished		299				1.7 - 413		1000	
Water, Untreated		299	1	0.3	239 ^	1.7 - 413			
Cycloate	H								
Water, Finished		310				3.3 - 6.0			
Water, Untreated		308				3.3 - 6.0			
Cyfluthrin	I								
Water, Finished		190				40 ^			
Water, Untreated		189				40 ^			
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I								
Water, Finished		190				42 ^			
Water, Untreated		189				42 ^			

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]
Cypermethrin	I								
Water, Finished		190				74 ^			
Water, Untreated		189				74 ^			
Cyphenothrin	I								
Water, Finished		190				14 ^			
Water, Untreated		189				14 ^			
Cyproconazole	F								
Water, Finished		189	3	1.6	2.7 ^	1.6 ^			
Water, Untreated		189				1.6 ^			
DCPA	H								
Water, Finished		120				0.80 ^		70,000	
Water, Untreated		120				0.75 ^			
DCPA monoacid	H								
Water, Finished		120				141 - 222			
Water, Untreated		119				141 - 222			
DDD o,p'	IM								
Water, Finished		115				3.8 ^			
Water, Untreated		115				3.8 ^			
DDD p,p'	IM								
Water, Finished		120				3.8 ^			
Water, Untreated		120				3.8 ^			
DDE p,p'	IM								
Water, Finished		120				7.5 ^			
Water, Untreated		120				7.5 ^			
DDT o,p'	I								
Water, Finished		120				3.8 ^			
Water, Untreated		120				3.8 ^			
DDT p,p'	I								
Water, Finished		120				3.8 ^			
Water, Untreated		120				3.8 ^			
Deltamethrin (includes parent Tralomethrin)	I								
Water, Finished		190				84 ^			
Water, Untreated		189				84 ^			
Desethyl atrazine	HM								
Water, Finished		309	252	81.6	0.72 - 857	0.43 - 24.8			
Water, Untreated		309	248	80.3	0.72 - 757	0.43 - 24.8			
Desisopropyl atrazine	HM								
Water, Finished		309	168	54.4	5.2 - 469	3.1 - 9.8			
Water, Untreated		309	168	54.4	5.2 - 776	3.1 - 9.8			
Diazinon	I								
Water, Finished		310				3.3 - 7.5		1,000	
Water, Untreated		309	1	0.3	100 ^	3.3 - 7.5			

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]
Diazinon oxygen analog	IM								
Water, Finished		120				9.0 ^			
Water, Untreated		120				9.0 ^			
Dicamba	H								
Water, Finished		189	1	0.5	94 ^	15 ^		4,000,000	
Water, Untreated		189	2	1.1	50 - 91	15 ^			
Dichlobenil	H								
Water, Finished		120				45 ^			
Water, Untreated		120				45 ^			
Dichlorprop	H								
Water, Finished		309	5	1.6	2.8 - 13	1.7 - 1.8			
Water, Untreated		308	5	1.6	2.8 - 19	1.7 - 1.8			
Dichlorvos (DDVP)	I								
Water, Finished		120				11.3 ^			
Water, Untreated		120				11.3 ^			
Dicloran	F								
Water, Finished		120				7.5 ^			
Water, Untreated		120				7.5 ^			
Dicofol p,p'	I								
Water, Finished		120				11.3 ^			
Water, Untreated		120				11.3 ^			
Dicrotophos	I								
Water, Finished		55				9.0 ^			
Water, Untreated		55				9.0 ^			
Dieldrin	I								
Water, Finished		120				15 ^			
Water, Untreated		120				15 ^			240
Difenoconazole	F								
Water, Finished		181				6.3 ^			
Water, Untreated		181				6.3 ^			
Dimethenamid	H								
Water, Finished		120	5	4.2	1.0 - 18	0.60 ^			
Water, Untreated		119	5	4.2	1.0 - 5.5	0.60 ^			
Dimethenamid oxanilic acid (OA)	HM								
Water, Finished		189	25	13.2	1.0 - 30	0.63 ^			
Water, Untreated		189	79	41.8	1.0 - 47	0.63 ^			
Dimethenamid/Dimethenamid P	H								
Water, Finished		189	15	7.9	4.2 - 12	2.5 ^			
Water, Untreated		189	39	20.6	4.2 - 26	2.5 ^			
Dimethoate	I								
Water, Finished		309				4.5 - 5.3			
Water, Untreated		309				4.5 - 5.3			
Dinoseb	H								
Water, Finished		309				0.60 - 0.78	7,000	7,000	
Water, Untreated		308				0.60 - 0.78			

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]
Diphenamid	H								
Water, Finished		120				24 ^		200,000	
Water, Untreated		120				24 ^			
Disulfoton	I								
Water, Finished		310				6.0 - 9.0		700	
Water, Untreated		309				6.0 - 9.0			
Disulfoton sulfone	IM								
Water, Finished		309	3	1	6.8 ^	4.1 - 12			
Water, Untreated		309				4.1 - 12			
Diuron	H								
Water, Finished		269	37	13.8	5.8 - 160	3.5 - 9.6			
Water, Untreated		268	73	27.2	5.8 - 280	3.5 - 9.6			
Endosulfan I	I								
Water, Finished		120				22.5 - 75			
Water, Untreated		120				22.5 - 75			220
Endosulfan II	IM								
Water, Finished		120				18.8 - 125			
Water, Untreated		120				18.8 - 125			220
Endosulfan sulfate	IM								
Water, Finished		120				30 - 1000			
Water, Untreated		120				30 - 1000			
Endrin	I								
Water, Finished		120				52.5 - 175	2,000	2,000	
Water, Untreated		120				52.5 - 175			86
Epoxiconazole	F								
Water, Finished		189	4	2.1	11.5 - 33	6.9 ^			
Water, Untreated		189				6.9 ^			
EPTC	H								
Water, Finished		310				5.0 - 61.9			
Water, Untreated		309	4	1.3	8.0 - 200	5.0 - 61.9			
Esfenvalerate+Fenvalerate Total	I								
Water, Finished		190				38 ^			
Water, Untreated		189				38 ^			
Ethalfluralin	H								
Water, Finished		120				60 ^			
Water, Untreated		120				60 ^			
Ethion	I								
Water, Finished		310				2.3 - 25			
Water, Untreated		309				2.3 - 25			
Ethion mono oxon	IM								
Water, Finished		120				3.8 ^			
Water, Untreated		120				3.8 ^			
Ethoprop	I								
Water, Finished		310				5.3 - 6.0			
Water, Untreated		309				5.3 - 6.0			

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	I								
Water, Finished		120				7.5 ^		700	
Water, Untreated		120				7.5 ^			
Fenamiphos sulfone	IM								
Water, Finished		55				15 ^			
Water, Untreated		55				15 ^			
Fenamiphos sulfoxide	IM								
Water, Finished		55				15 ^			
Water, Untreated		55				15 ^			
Fenarimol	F								
Water, Finished		120				37.5 ^			
Water, Untreated		120				37.5 ^			
Fenbuconazole	F								
Water, Finished		309				2.4 - 3.0			
Water, Untreated		308				2.4 - 3.0			
Fenitrothion	I								
Water, Finished		310				6.0 - 13			
Water, Untreated		309				6.0 - 13			
Fenitrothion oxygen analog	IM								
Water, Finished		55				6.0 ^			
Water, Untreated		55				6.0 ^			
Fenpropathrin	I								
Water, Finished		310				14 - 400			
Water, Untreated		309				14 - 400			
Fenthion	I								
Water, Finished		310				6.0 - 22			
Water, Untreated		309				6.0 - 22			
Fenthion-O analog	IM								
Water, Finished		120				7.5 - 15			
Water, Untreated		120				7.5 - 15			
Fenuron	H								
Water, Finished		120				15 ^			
Water, Untreated		119				15 ^			
Fipronil	I								
Water, Finished		120				12 ^			
Water, Untreated		119				12 ^			
Fludioxonil	F								
Water, Finished		120				37.5 ^			
Water, Untreated		120				37.5 ^			
Flufenacet oxanilic acid (OA)	HM								
Water, Finished		189	24	12.7	5.8 - 12	0.75 ^			
Water, Untreated		189	24	12.7	3.3 - 10	0.75 ^			
Flumetsulam	H								
Water, Finished		309				6.0 - 20			
Water, Untreated		308				6.0 - 20			

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]
Fluometuron	H								
Water, Finished		309				1.2 - 4.2		90,000	
Water, Untreated		308				1.2 - 4.2			
Fluvalinate	I								
Water, Finished		190				130 ^			
Water, Untreated		189				130 ^			
Fonofos	I								
Water, Finished		120				7.5 ^		10,000	
Water, Untreated		120				7.5 ^			
Halosulfuron methyl	H								
Water, Finished		189				3.3 ^			
Water, Untreated		189	1	0.5	5.5 ^	3.3 ^			
Heptachlor epoxide	IM								
Water, Finished		120				15 ^	200		
Water, Untreated		120				15 ^			520
Hexaconazole	F								
Water, Finished		189				11 ^			
Water, Untreated		189				11 ^			
Hydroxy atrazine	HM								
Water, Finished		189	122	64.6	2.0 - 370	1.2 ^			
Water, Untreated		189	123	65.1	2.0 - 420	1.2 ^			
3-Hydroxycarbofuran	IM								
Water, Finished		120				24 ^			
Water, Untreated		119				24 ^			
Imazamethabenz acid	H								
Water, Finished		189				0.60 ^			
Water, Untreated		189	6	3.2	1.0 ^	0.60 ^			
Imazamethabenz methyl	H								
Water, Finished		309				0.31 - 0.60			
Water, Untreated		308				0.31 - 0.60			
Imazamox	H								
Water, Finished		309	2	0.6	5.2 - 64	2.4 - 3.1			
Water, Untreated		308	3	1	5.2 ^	2.4 - 3.1			
Imazapic	H								
Water, Finished		309	1	0.3	1.5 ^	0.90 - 2.4			
Water, Untreated		308	2	0.6	1.5 - 23	0.90 - 2.4			
Imazapyr	H								
Water, Finished		309	145	46.9	1.5 - 76	0.90 - 1.0			
Water, Untreated		308	138	44.8	1.5 - 100	0.90 - 1.0			
Imazaquin	H								
Water, Finished		309	3	1	1.8 - 16	1.1 - 2.4			
Water, Untreated		308	1	0.3	4.0 ^	1.1 - 2.4			
Imazethapyr	H								
Water, Finished		309	22	7.1	2.0 - 35	1.0 - 2.4			
Water, Untreated		308	21	6.8	2.0 - 29	1.0 - 2.4			

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]
Imidacloprid	I								
Water, Finished		309	40	12.9	2.5 - 12	1.5 - 6.2			
Water, Untreated		308	53	17.2	2.5 - 100	1.5 - 6.2			
Isofenphos	I								
Water, Finished		120				4.5 ^			
Water, Untreated		120				4.5 ^			
Lindane (BHC gamma)	I								
Water, Finished		310				11.3 - 20	200		
Water, Untreated		309				11.3 - 20			950
Linuron	H								
Water, Finished		309	1	0.3	7.5 ^	3.0 - 4.5			
Water, Untreated		308	1	0.3	19 ^	3.0 - 4.5			
Malathion	I								
Water, Finished		310	1	0.3	331 ^	6.0 - 20		100,000	
Water, Untreated		309				6.0 - 20			
Malathion oxygen analog	IM								
Water, Finished		120				6.0 ^			
Water, Untreated		120				6.0 ^			
MCPA	H								
Water, Finished		309	46	14.9	1.3 - 37	0.78 - 7.2		30,000	
Water, Untreated		308	84	27.3	1.3 - 860	0.78 - 7.2			
MCPB	H								
Water, Finished		309				6.6 - 21			
Water, Untreated		308				6.6 - 21			
Metalaxyl	F								
Water, Finished		309	2	0.6	5.0 ^	3.0 - 22.5			
Water, Untreated		309	5	1.6	5.0 - 133	3.0 - 22.5			
Methidathion	I								
Water, Finished		120				5.3 ^			
Water, Untreated		120				5.3 ^			
Methidathion oxygen analog	IM								
Water, Finished		120				22.5 ^			
Water, Untreated		120				22.5 ^			
Methiocarb	I								
Water, Finished		120				15 ^			
Water, Untreated		119				15 ^			
Methomyl	I								
Water, Finished		309				1.8 - 7.3		200,000	
Water, Untreated		308				1.8 - 7.3			
Methoxychlor olefin	IM								
Water, Finished		120				3.8 ^	40,000	40,000	
Water, Untreated		120				3.8 ^			
Methoxychlor Total	I								
Water, Finished		120				7.5 - 25	40,000	40,000	
Water, Untreated		120				7.5 - 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]
Metolachlor	H								
Water, Finished		310	127	41	2.5 - 2031	1.5 - 3.0		700,000	
Water, Untreated		309	161	52.1	2.5 - 990	1.5 - 3.0			
Metolachlor ethanesulfonic acid (ESA)	HM								
Water, Finished		309	269	87.1	0.60 - 1400	0.36 - 4.8			
Water, Untreated		308	280	90.9	0.60 - 1500	0.36 - 4.8			
Metolachlor oxanilic acid (OA)	HM								
Water, Finished		309	133	43	5.3 - 839	3.2 - 4.8			
Water, Untreated		308	163	52.9	5.3 - 594	3.2 - 4.8			
Metribuzin	H								
Water, Finished		120				22.5 - 45		70,000	
Water, Untreated		120	2	1.7	37.5 - 75	22.5 - 45			
Metsulfuron methyl	H								
Water, Finished		301				1.5 - 8.4			
Water, Untreated		300	1	0.3	2.5 ^	1.5 - 8.4			
Mevinphos Total	I								
Water, Finished		120				6.0 - 12			
Water, Untreated		120				6.0 - 12			
Molinate	H								
Water, Finished		115				9.8 ^			
Water, Untreated		115				9.8 ^			
Monuron	H								
Water, Finished		120				6.0 ^			
Water, Untreated		119				6.0 ^			
Myclobutanil	F								
Water, Finished		309				2.9 - 9.6			
Water, Untreated		308				2.9 - 9.6			
Napropamide	H								
Water, Finished		120				24 - 80			
Water, Untreated		120				24 - 80			
Neburon	H								
Water, Finished		309				1.2 - 9.4			
Water, Untreated		308				1.2 - 9.4			
Nicosulfuron	H								
Water, Finished		166	1	0.6	21 ^	1.7 - 4.8			
Water, Untreated		169	8	4.7	2.8 - 44	1.7 - 4.8			
Norflurazon	H								
Water, Finished		120				18.8 - 62.5			
Water, Untreated		120				18.8 - 62.5			
Norflurazon desmethyl	HM								
Water, Finished		120				37.5 ^			
Water, Untreated		120				37.5 ^			
Omethoate	IM								
Water, Finished		189	1	0.5	0.50 ^	0.30 ^			
Water, Untreated		189				0.30 ^			

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]
Oxadiazon	H								
Water, Finished		120	2	1.7	25 - 164	15 - 50			
Water, Untreated		120	1	0.8	86 ^	15 - 50			
Oxadixyl	F								
Water, Finished		120				48.8 ^			
Water, Untreated		120				48.8 ^			
Oxamyl	I								
Water, Finished		120				18 ^	200,000		
Water, Untreated		119				18 ^			
Oxychlordane	IM								
Water, Finished		120				7.5 - 25			
Water, Untreated		120				7.5 - 25			
Oxydemeton methyl sulfone	IM								
Water, Finished		55				45 ^			
Water, Untreated		55				45 ^			
Oxyfluorfen	H								
Water, Finished		120				11.3 - 37.5			
Water, Untreated		120				11.3 - 37.5			
Parathion ethyl	I								
Water, Finished		310				7.5 - 15			
Water, Untreated		309				7.5 - 15			65
Parathion methyl	I								
Water, Finished		310				4.5 - 53			
Water, Untreated		309				4.5 - 53			65
Parathion methyl oxygen analog	IM								
Water, Finished		309				9.8 - 11			
Water, Untreated		309				9.8 - 11			
Parathion oxygen analog	IM								
Water, Finished		120				7.5 ^			
Water, Untreated		120				7.5 ^			
Pebulate	H								
Water, Finished		120				2.3 - 7.5			
Water, Untreated		120				2.3 - 7.5			
Pendimethalin	H								
Water, Finished		120				4.5 - 15			
Water, Untreated		120				4.5 - 15			
Permethrin cis	IM								
Water, Finished		190				9.0 ^			
Water, Untreated		189				9.0 ^			
Permethrin trans	IM								
Water, Finished		190				7.5 ^			
Water, Untreated		189				7.5 ^			
Phenothrin	I								
Water, Finished		190				27 ^			
Water, Untreated		189				27 ^			

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]
Phenthoate	I								
Water, Finished		120				15 - 50			
Water, Untreated		120				15 - 50			
Phorate	I								
Water, Finished		310				11.3 - 12			
Water, Untreated		309	1	0.3	62 ^	11.2 - 12			
Phorate oxygen analog	IM								
Water, Finished		120				5.3 ^			
Water, Untreated		120				5.3 ^			
Phorate sulfone	IM								
Water, Finished		120				6.0 ^			
Water, Untreated		120				6.0 ^			
Phorate sulfoxide	IM								
Water, Finished		120				37.5 ^			
Water, Untreated		120				37.5 ^			
Phosalone	I								
Water, Finished		120				4.5 ^			
Water, Untreated		120				4.5 ^			
Phosphamidon	I								
Water, Finished		120				12 ^			
Water, Untreated		120				12 ^			
Picloram	H								
Water, Finished		309				22 - 30	500,000		
Water, Untreated		308	9	2.9	37 ^	22 - 30			
Piperonyl butoxide	I								
Water, Finished		120				18.8 ^			
Water, Untreated		120				18.8 ^			
Pirimicarb	I								
Water, Finished		120				37.5 ^			
Water, Untreated		120				37.5 ^			
Pirimiphos methyl	I								
Water, Finished		120				5.3 ^			
Water, Untreated		120				5.3 ^			
Prallethrin	I								
Water, Finished		190				25 ^			
Water, Untreated		189				25 ^			
Profenofos	I								
Water, Finished		120				12 ^			
Water, Untreated		120				12 ^			
Prometon	H								
Water, Finished		309	277	89.6	0.28 - 54	0.17 - 1.5		100,000	
Water, Untreated		309	280	90.6	0.28 - 891	0.17 - 1.5			
Prometryn	H								
Water, Finished		309	2	0.6	0.28 - 231	0.17 - 24			
Water, Untreated		309	23	7.4	0.28 ^	0.17 - 24			

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]
Pronamide	H								
Water, Finished		120				22.5 ^			
Water, Untreated		120				22.5 ^			
Propachlor	H								
Water, Finished		309	5	1.6	1.1 - 287	0.17 - 5.3			
Water, Untreated		309	1	0.3	1.1 ^	0.17 - 5.3			
Propachlor oxanilic acid (OA)	HM								
Water, Finished		189				1.4 ^			
Water, Untreated		189				1.4 ^			
Propanil	H								
Water, Finished		309				6.7 - 24.8			
Water, Untreated		309				6.7 - 24.8			
Propargite	I								
Water, Finished		120				90 - 300			
Water, Untreated		120				90 - 300			
Propazine	H								
Water, Finished		309	28	9.1	5.5 - 16	3.3 - 4.5		100,000	
Water, Untreated		309	28	9.1	5.5 - 21	3.3 - 4.5			
Propetamphos	I								
Water, Finished		120				6.0 - 12			
Water, Untreated		120				6.0 - 12			
Propham	H								
Water, Finished		120				18 ^		100,000	
Water, Untreated		119				18 ^			
Propiconazole	F								
Water, Finished		309	12	3.9	5.7 - 14	3.4 - 6.0			
Water, Untreated		308	17	5.5	5.7 - 70	3.4 - 6.0			
Propoxur	I								
Water, Finished		120				24.8 - 413			
Water, Untreated		120				24.8 - 413			
Quintozene (PCNB)	F								
Water, Finished		120				187.5			
Water, Untreated		120				187.5			
Resmethrin	I								
Water, Finished		190				7.8 ^			
Water, Untreated		189				7.8 ^			
Siduron	H								
Water, Finished		309				2.1 - 2.4			
Water, Untreated		308	13	4.2	4.0 - 180	2.1 - 2.4			
Simazine	H								
Water, Finished		309	159	51.5	1.2 - 1100	0.71 - 3.8	4,000		
Water, Untreated		309	190	61.5	1.2 - 1600	0.71 - 3.8			
Sulfometuron methyl	H								
Water, Finished		309	7	2.3	3.2 - 20	1.9 - 12			
Water, Untreated		308	14	4.5	3.2 - 17	1.9 - 12			

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]
Sulfotep	I								
Water, Finished		120				4.5 - 6.0			
Water, Untreated		120				4.5 - 6.0			
Sulprofos	I								
Water, Finished		120				6.0 ^			
Water, Untreated		120				6.0 ^			
Tebuconazole	F								
Water, Finished		309	2	0.6	5.8 ^	3.5 - 4.8			
Water, Untreated		308	4	1.3	5.8 - 68	3.5 - 4.8			
Tebupirimfos	I								
Water, Finished		120				7.5 ^			
Water, Untreated		120				7.5 ^			
Tebupirimfos oxygen analog	IM								
Water, Finished		120				9.0 ^			
Water, Untreated		120				9.0 ^			
Tebuthiuron	H								
Water, Finished		309	191	61.8	0.35 - 14	0.21 - 0.60		500,000	
Water, Untreated		308	191	62	0.35 - 15	0.21 - 0.60			
Tecnazene	P								
Water, Finished		120				18.8 - 62.5			
Water, Untreated		120				18.8 - 62.5			
Tefluthrin	I								
Water, Finished		190				2.1 ^			
Water, Untreated		189				2.1 ^			
Terbacil	H								
Water, Finished		309				1.6 - 375		90,000	
Water, Untreated		309				1.6 - 375			
Terbufos	I								
Water, Finished		245				6.3 - 22.5		400	
Water, Untreated		244				6.3 - 22.5			
Terbufos sulfone	IM								
Water, Finished		120				4.5 ^			
Water, Untreated		120				4.5 ^			
Terbufos-O analog	IM								
Water, Finished		120				6.0 ^			
Water, Untreated		120				6.0 ^			
Tetrachlorvinphos	I								
Water, Finished		310				6.0 - 7.5			
Water, Untreated		309				6.0 - 7.5			
Tetraconazole	F								
Water, Finished		309	23	7.4	3.2 - 15	1.8 - 1.9			
Water, Untreated		308	19	6.2	3.2 - 29	1.8 - 1.9			
Tetradifon	I								
Water, Finished		265				7.2 - 37.5			
Water, Untreated		264				7.2 - 37.5			

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]
Tetramethrin	I								
Water, Finished		190				28 ^			
Water, Untreated		189				28 ^			
Thifensulfuron	H								
Water, Finished		189				8.9 ^			
Water, Untreated		189	1	0.5	14.8 ^	8.9 ^			
Thiobencarb	H								
Water, Finished		309	1	0.3	112 ^	7.7 - 18			
Water, Untreated		308				7.7 - 18			
Tri Allate	H								
Water, Finished		310				12 - 24.8			
Water, Untreated		309				12 - 24.8			
Triadimefon	F								
Water, Finished		309	1	0.3	2.2 ^	1.3 - 8.4			
Water, Untreated		308	3	1	14 - 45	1.3 - 8.4			
Triadimenol	F								
Water, Finished		189	1	0.5	33 ^	20 ^			
Water, Untreated		189	1	0.5	33 ^	20 ^			
Triasulfuron	H								
Water, Finished		189				3.1 ^			
Water, Untreated		189				3.1 ^			
Triclopyr	H								
Water, Finished		309	145	46.9	2.7 - 508	1.6 - 6.0			
Water, Untreated		308	148	48.1	2.7 - 524	1.6 - 6.0			
Trifluralin	H								
Water, Finished		115				1.5 ^		10,000	
Water, Untreated		115				1.5 ^			
Triticonazole	F								
Water, Finished		189				14 ^			
Water, Untreated		189				14 ^			
Vinclozolin	F								
Water, Finished		40				6.0 ^			
Water, Untreated		40				6.0 ^			

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.

^ = 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 J

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

Appendix J gives the number of fruit and vegetable, almond, catfish, honey, and rice 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 J, fruit and vegetable, almond, catfish, honey, and rice samples originated from 43 States, 1 U.S. territory, and 22 foreign countries. There were 524 domestic and 5 imported samples from unknown States and countries, respectively. There were an additional 133 samples from unknown origins. Corn grain samples were all of domestic origin. Overall, for all samples except corn grain, groundwater, and drinking water, 76.4 percent were from U.S. sources, 19.8 percent were imports, 2.7 percent were of mixed national origin, and 1.1 percent were of unknown origin.

APPENDIX J. SAMPLE ORIGIN BY STATE OR COUNTRY [1]
(Determined by Grower, Packer, or Distributor)

Part 1. Domestic Samples

	Fresh F&V																	Processed F&V					Other Commodities				# of	% of
States = 43	AS	BB	BR	CB	CE	GB	GK	GL	GO	NE	PC	PO	SP	SS	ST	SW	TO	AJ	BZ	CS	GJ	KB	AL	FC	HY	RI	Samp.	Total
Alabama																	1							34			35	0.3
Arizona			2		1	2		4				10	1	6			6								2		34	0.3
Arkansas														1		4	4	13		1	17	13		8	15	14	90	0.8
California	15	95	440	47	586	97	131	61	28	409	290	108	533	64	570	58	117	43	1	3	60	31	82	59	73	29	4030	34.0
Colorado			1	2		12	9	9			3	31	9	2			3	1			1			7	2		92	0.8
Connecticut																					1						1	<0.1
Delaware											2	6					1										9	0.1
Florida	6	96	15	27	59	160	5	9		1	4	25	13	76	82	1	193	7	1		6	4	6	23	51	8	878	7.4
Georgia		3		4	1	26	20	30			11			31			6	2									134	1.1
Idaho										3	6	155						2		1	3	6			15	4	195	1.6
Illinois			4			1						5		1				12		1	27	10	23		17	9	110	0.9
Indiana				2						1	2																5	<0.1
Iowa																									41		41	0.3
Kansas																									26		26	0.2
Kentucky												2	9				1										12	0.1
Louisiana																10								15			25	0.2
Maine			6									4								1	2	1	1	7	1		23	0.2
Maryland			5		4	18	5	6		2	2	21	9	7	2	2	7	3		3	13	5	2	4	13	4	137	1.2
Massachusetts						1	1	1				3	12					2			384			17			421	3.5
Michigan	2	59			17	16	5	4			6	28	30	17			10	36	4	4	53	5	7	14	16	9	342	2.9
Minnesota					1	3		1				31	2	1						4		23			5	1	72	0.6
Mississippi		1														20								115			136	1.1
Missouri																2	2									1	5	<0.1
Nebraska												2										4					6	0.1
Nevada			1									11															12	0.1
New Hampshire												1													1		2	<0.1
New Jersey		33		2		7	8	4		2	14	1	4	16		4	5				8	23	3	2	1	6	143	1.2
New Mexico												5												1			6	0.1
New York		1	9	3		11	6	1		1	3	24	5	9		2	3	26		3	8	10	8	14	7	4	158	1.3
North Carolina		8				4	4	7			3	5		2		36	2							10		1	82	0.7
North Dakota												5															5	<0.1
Ohio			1	3	3	44	16	20	4	2	3	18	1	12		1	5	8		2	22	9	13	18	25	12	242	2.0
Oklahoma																			1								1	<0.1
Oregon		32				2	1	1	3			12	2				1	2			9	6			1	3	75	0.6
Pennsylvania			1	1		5				4	7	7	35	2			4			3	2	6	5		9	3	94	0.8
Puerto Rico																										2	2	<0.1
South Carolina							9	12	2		31						10										64	0.5
Tennessee						3										1	9			1		13					27	0.2
Texas	2	9	19	5	26	43	18	24	2	1		57	21	25	9	14	28	14	3	1	15	7	14	17	15	47	436	3.7
Utah																									1		1	<0.1
Virginia				1		6	1					2	5				9	5		1							30	0.3
Washington		3	4		2	8	3	1		18	13	105	8	8			4	28	1		11	1	4	16	4	3	245	2.1
West Virginia											2																2	<0.1
Wisconsin							1	1				23	4				2	4			2	3	4		7		51	0.4
Unknown State	4	6	8	22	17	102	44	33	6	15	20	18	13	80	5	24	26	6	3	1	7	2	1	54	6	1	524	4.4
No. of Domestic	29	346	516	119	717	571	287	229	45	459	422	725	716	360	668	179	459	214	14	30	651	182	173	435	354	161	9,061	
% of Total	8	48	93	78	97	77	90	95	24	68	69	97	96	65	90	97	62	58	78	91	87	98	93	79	63	88		76.4
Number and Percentage computed with 650 Corn Grain samples of domestic origin added:																											9,711	77.6

Part 2. Imported Samples

	Fresh F&V																	Processed F&V					Other Commodities				# of	% of
Countries = 22	AS	BB	BR	CB	CE	GB	GK	GL	GO	NE	PC	PO	SP	SS	ST	SW	TO	AJ	BZ	CS	GJ	KB	AL	FC	HY	RI	Samp.	Total
Argentina	1	99									2							3			12			1	1		119	1.0
Australia																									3		3	<0.1
Brazil																		1						3	14		18	0.2
Bulgaria																									2		2	<0.1
Canada	1	44	5	1	2		1	3	1			18	5				48	2	3	3	4	3	1		13		158	1.3
Chile	2	217								211	187				1			3	1								622	5.2
China																		62				1		84	5		152	1.3
Ecuador	1																										1	<0.1
Guatemala						9			3					1													13	0.1
Honduras														3													3	<0.1
India																									1	5	6	0.1
Italy																							3				3	<0.1
Mexico	70	5	27	17	17	121	29	3	133	1	3		19	177	72		219	2			1						916	7.7
New Zealand		2																									2	<0.1
Nicaragua														2													2	0.0
Peru	266																										266	2.2
Spain																							1				1	<0.1
Taiwan																		4						11			15	0.1
Thailand																										16	16	0.1
Turkey																		6									6	0.1
Uruguay		11																									11	0.1
Vietnam																								7	2		9	0.1
Unkn. Country													1					1					1		2		5	<0.1
No. of Imports	341	378	32	18	19	130	30	6	137	212	192	18	25	183	73	0	267	84	4	3	17	4	6	106	43	21	2,349	
% of Total	92	52	6	12	3	18	9	3	74	32	31	2	3	33	10	0	36	23	22	9	2	2	3	19	8	11		19.8
Percentage computed with 650 Corn Grain samples of domestic origin added:																												18.8

Part 3. Mixed National Origin Samples

	Processed F&V					Other Commodities				# of	% of
	AJ	BZ	CS	GJ	KB	AL	FC	HY	RI	Samp.	Total
Argentina / Australia / Canada / USA								1		1	<0.1
Argentina / Austria / Brazil / Chile / China / Germany / Hungary / Italy	3									3	<0.1
Argentina / Austria / Brazil / Chile / China / Germany /Hungary/Italy/Turkey/USA	1									1	<0.1
Argentina / Austria / Brazil / Chile / China / Hungary / Italy	1									1	<0.1
Argentina / Austria / Brazil / Chile / Germany / Hungary / Italy / Turkey	1									1	<0.1
Argentina / Austria / Chile / China / Germany / Turkey / USA	5									5	<0.1
Argentina / Austria / Chile / China / Turkey / USA	1									1	<0.1
Argentina / Brazil				1						1	<0.1
Argentina / Brazil / Canada / India / Mexico / Uruguay / USA								1		1	<0.1
Argentina / Brazil / Canada / India / Mexico / USA								7		7	0.1
Argentina / Brazil / Canada / India / USA								3		3	<0.1
Argentina / Brazil / Canada / USA								1		1	<0.1
Argentina / Brazil / Chile				1						1	<0.1
Argentina / Brazil / Chile / USA				1						1	<0.1
Argentina / Brazil / India / Mexico / USA								1		1	<0.1
Argentina / Brazil / USA				1						1	<0.1
Argentina / Canada								4		4	<0.1
Argentina / Canada / Chile / China / USA				1						1	<0.1
Argentina / Canada / India / Mexico / USA								1		1	<0.1
Argentina / Canada / India / Mexico / Philippines / Uruguay / USA								2		2	<0.1
Argentina / Canada / India / Mexico / Uruguay / USA								3		3	<0.1
Argentina / Canada / USA								79		79	0.7
Argentina / Chile / China	1									1	<0.1
Argentina / Chile / China / Poland / USA	1									1	<0.1
Argentina / Chile / China / USA	1									1	<0.1
Argentina / Chile / USA	1									1	<0.1
Argentina / China	3									3	<0.1

	Processed F&V					Other Commodities				# of	% of
	AJ	BZ	CS	GJ	KB	AL	FC	HY	RI	Samp.	Total
Argentina / China / Germany	1									1	<0.1
Argentina / China / Germany / Italy	1									1	<0.1
Argentina / China / Germany / USA	1									1	<0.1
Argentina / China / USA	14									14	0.1
Argentina / Germany / Italy / Taiwan	1									1	<0.1
Argentina / New Zealand / Turkey	1									1	<0.1
Argentina / Taiwan	1									1	<0.1
Argentina / Taiwan / USA	2									2	<0.1
Argentina / USA	1			67				4		72	0.6
Austria / USA				1						1	<0.1
Brazil / Canada								2		2	<0.1
Brazil / Canada / India								1		1	<0.1
Brazil / Canada / Uruguay / USA								1		1	<0.1
Brazil / Canada / USA								7		7	0.1
Brazil / China / India / Mexico / Vietnam / USA								2		2	<0.1
Brazil / Mexico								1		1	<0.1
Brazil / USA				2						2	<0.1
Canada / India / USA								1		1	<0.1
Canada / Uruguay / USA								2		2	<0.1
Canada / USA	1			1				36		38	0.3
Chile / New Zealand / Turkey / USA	1									1	<0.1
China / Germany	1									1	<0.1
China / New Zealand	1									1	<0.1
China / Taiwan	1						2			3	<0.1
China / USA	18									18	0.2
Pakistan / USA								1		1	<0.1
Spain / USA						6				6	0.1
Taiwan / USA	9									9	0.1
No. of Mixed National Origin Samples	74			76		6	2	161		319	
% of Total	20			10		3	<1	29			2.7

Part 4. Unknown Origin Samples

	Fresh F&V																Processed F&V					Other Commodities				# of	% of
	AS	BB	BR	CB	CE	GB	GK	GL	GO	NE	PC	PO	SP	SS	ST	SW	TO	AJ	BZ	CS	GJ	KB	AL	FC	HY	RI	Samp.	Total
Unknown Origin	2	2	6	15	5	40	1	5	4	1	2	1	6	11		5	14				1		1	9		2	133	
% of Total	1	<1	1	10	1	5	<1	2	2	<1	<1	<1	1	2		3	2				<1		1	2		1		1.1

Sample Totals:	372	726	554	152	741	741	318	240	186	672	616	744	747	554	741	184	740	372	18	33	745	186	186	552	558	184	11,862	
Grand Total computed with with 650 Corn Grain samples added:																											12,512	

NOTE

[1] Excludes corn grain, groundwater, and untreated/finished drinking water samples.

Commodity Legend		
AJ = Apple Juice	FC = Catfish	PC = Peaches
AL = Almonds	GB = Green Beans	PO = Potatoes
AS = Asparagus	GJ = Grape Juice	RI = Rice
BB = Blueberries, Fresh	GK = Greens, Kale	SP = Spinach
BR = Broccoli	GL = Greens, Collard	SS = Summer Squash
BZ = Blueberries, Frozen	GO = Green Onions	ST = Strawberries
CB = Sweet Corn, Fresh (On-the-Cob)	HY = Honey	SW = Sweet Potatoes
CE = Celery	KB = Kidney Beans, Canned	TO = Tomatoes
CS = Sweet Corn, Frozen	NE = Nectarines	

Appendix K

Import vs. Domestic Pesticide Residue Comparisons

The Pesticide Data Program (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 K 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 blueberries are compared with data for samples originating in Argentina and Chile for 2007-2008 combined. Residue data for peaches from the United States are compared with data for samples originating in Chile for 2007-2008 combined. Residue data for tomatoes from the United States are compared with data for samples originating in Mexico for 2007-2008 combined. 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 likely due to the pesticides used in response to pest pressures based on differing environmental, climatic, and growing conditions.

Appendix K. Import vs. Domestic Pesticide Residue Comparisons

2007-2008 Distribution of Residues for Blueberry Samples Originating in Argentina and 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
Boscalid	United States	663	331	49.9
	Argentina	199	56	28.1
	Chile	445	15	3.4
Captan	United States	184	39	21.2
	Argentina	62	4	6.5
	Chile	129	21	16.3
Carbendazim (MBC)	United States	479	56	11.7
	Argentina	137	54	39.4
	Chile	316	93	29.4
Cyprodinil	United States	184	39	21.2
	Argentina	62	19	30.6
	Chile	129	2	1.6
Fenbuconazole	United States	663	146	22.0
	Argentina	199	2	1.0
	Chile	445	9	2.0
Fludioxonil	United States	663	67	10.1
	Argentina	199	47	23.6
	Chile	445	19	4.3
Imidacloprid	United States	663	94	14.2
	Argentina	199	18	9.0
	Chile	445	11	2.5
Iprodione	United States	663	27	4.1
	Argentina	199	85	42.7
	Chile	445	150	33.7
Phosmet	United States	663	145	21.9
	Argentina	199	1	0.5
	Chile	445	4	0.9
Pyraclostrobin	United States	663	336	50.7
	Argentina	199	48	24.1
	Chile	445	6	1.3
Tetrahydrophthalimide (THPI)	United States	663	162	24.4
	Argentina	199	6	3.0
	Chile	445	53	11.9

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

2007-2008 Distribution of Residues for Peach 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
Azinphos methyl	United States	783	14	1.8
	Chile	375	315	84.0
Boscalid	United States	783	160	20.4
	Chile	375	2	0.5
Carbaryl	United States	783	96	12.3
	Chile	375	51	13.6
Chlorpyrifos	United States	783	21	2.7
	Chile	375	184	49.1
Cyhalothrin, Lambda	United States	567	17	3.0
	Chile	375	174	46.4
Fludioxonil	United States	783	533	68.1
	Chile	375	2	0.5
Formetanate hydrochloride	United States	622	82	13.2
	Chile	200	34	17.0
Iprodione	United States	783	10	1.3
	Chile	375	372	99.2
Methoxyfenozide	United States	783	193	24.6
	Chile	375	11	2.9
1-Naphthol	United States	759	80	10.5
	Chile	375	26	6.9
Phosmet	United States	783	387	49.4
	Chile	375	2	0.5
Propiconazole	United States	657	107	16.3
	Chile	323	3	0.9
Spinosad	United States	223	17	7.6
	Chile	105	44	41.9

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

2007-2008 Distribution of Residues for Tomato 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
Azoxystrobin	United States	939	75	8.0
	Mexico	418	99	23.7
Chlorothalonil	United States	939	159	16.9
	Mexico	418	41	9.8
Endosulfan I	United States	939	87	9.3
	Mexico	418	60	14.4
Endosulfan II	United States	939	161	17.1
	Mexico	418	88	21.1
Endosulfan sulfate	United States	939	152	16.2
	Mexico	418	62	14.8

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

Appendix L

National Estimates for Concentration Percentiles vs. Tolerance

(Pairs With Residue Detections in at Least 5 Percent of Samples)

Appendix L shows 178 pesticide/commodity pairs (including metabolites, isomers, and degradates) with detections in at least 5 percent of the samples tested. Concentrations detected are arranged in percentiles. The 90th percentile is compared to the U.S. 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 strawberries/boscalid pair, the 50th percentile, or median, is estimated to be 0.11 parts per million (ppm). This means that the Pesticide Data Program (PDP) estimates that at least 50 percent of strawberries available to U.S. consumers had boscalid residues of 0.11 ppm or less, while at least 50 percent had residues of 0.11 ppm or more. Similarly, the 75th percentile (or the upper quartile) for this pair is estimated to be 0.18 ppm, which means that at least 75 percent of strawberries had boscalid residues of 0.18 ppm or less, while at least 25 percent had residues of 0.18 ppm or more. Finally, the 90th percentile is estimated to be 0.50 ppm, meaning that at least 90 percent of all strawberries had boscalid residues of 0.50 ppm or less, while at least 10 percent had residues of 0.50 ppm or more.

Percent detections and percentiles for all commodities were weighted based on marketing data.

APPENDIX L. NATIONAL ESTIMATES FOR CONCENTRATION PERCENTILES vs. TOLERANCE
(Pairs With Residue Detections in at Least 5 Percent of Samples [1])

	Commodity / Pesticide	% of Samples with Detections	Mean (ppm) [2] Lower	Mean (ppm) [2] Upper	Percentiles (ppm) 50th	Percentiles (ppm) 75th	Percentiles (ppm) 90th	Ratio of 90th Percentile to Tolerance
1	**Almonds (W) (January - March only)** (in parts per billion)							
	Chlorpyrifos	36.9	1.6	2.2	*	1.6	4.3	0.022
	Methoxyfenozide	8.4	0.45	4.1	*	*	*	*
	MGK-264	5.6	0.53	5.3	*	*	*	*
	Phosmet	6.1	0.78	5.5	*	*	*	*
	Piperonyl butoxide	38.5	6.8	8.0	*	6.4	14.6	0.002
2	**Blueberries (W)**							
	Azinphos methyl	5.2	0.003	0.011	*	*	*	*
	Azoxystrobin	6.5	0.004	0.005	*	*	*	*
	Bifenthrin	5.1	0.001	0.004	*	*	*	*
	Boscalid	35.1	0.063	0.066	*	0.026	0.20	0.015
	Captan	18.1	0.032	0.042	*	*	0.12	0.006
	Carbaryl	6.4	0.006	0.006	*	*	*	*
	Carbendazim (MBC)	13.5	0.007	0.008	*	*	0.002	*
	Cyprodinil	20.1	0.016	0.022	*	*	0.029	0.010
	Esfenvalerate + Fenvalerate	8.8	0.003	0.015	*	*	*	*
	Fenbuconazole	12.1	0.001	0.010	*	*	0.002	0.005
	Fenhexamid	7.4	0.006	0.014	*	*	*	*
	Fludioxonil	15.3	0.006	0.014	*	*	0.017	0.009
	Imidacloprid	11.0	0.001	0.004	*	*	0.001	*
	Iprodione	18.9	0.022	0.031	*	*	0.048	0.003
	Phosmet	11.7	0.016	0.020	*	*	0.009	0.001
	Pyraclostrobin	34.0	0.012	0.012	*	*	0.030	0.008
	Tetrahydrophthalimide (THPI)	15.6	0.032	0.054	*	*	0.062	0.010
3	**Broccoli (W) (January-September only)**							
	Chlorpyrifos	8.1	*	0.002	*	*	*	*
	DCPA	35.4	0.002	0.003	*	0.002	0.005	0.001
	Imidacloprid	66.0	0.002	0.002	0.001	0.002	0.005	0.001
4	**Celery (W)**							
	Acephate	33.8	0.018	0.019	*	0.007	0.060	0.006
	Acetamiprid	22.9	0.001	0.002	*	*	0.003	0.015
	Azoxystrobin	18.6	0.011	0.012	*	*	0.016	0.001
	Boscalid	7.0	0.003	0.007	*	*	*	*
	Chlorothalonil	29.7	0.037	0.043	*	0.020	0.092	0.006
	Cyromazine	37.4	0.005	0.006	*	0.008	0.013	0.002
	DCPA	9.3	0.001	0.002	*	*	*	*
	Dicloran	39.4	0.072	0.079	*	0.064	0.20	0.40
	Dimethoate	8.8	0.002	0.004	*	*	*	*
	Imidacloprid	28.6	0.001	0.005	*	0.001	0.004	0.002
	Linuron	30.6	0.004	0.005	*	0.004	0.010	0.024
	Malathion	20.5	0.013	0.016	*	*	0.035	0.006
	Methamidophos	19.8	0.001	0.002	*	*	0.050	0.010

	Commodity / Pesticide	% of Samples with Detections	Mean (ppm) [2] Lower	Mean (ppm) [2] Upper	Percentiles (ppm) 50th	Percentiles (ppm) 75th	Percentiles (ppm) 90th	Ratio of 90th Percentile to Tolerance
4	**Celery (W) - continued**							
	Methoxyfenozide	50.4	0.010	0.010	0.001	0.007	0.023	0.003
	Omethoate	17.0	0.003	0.005	*	*	0.008	0.008
	Oxamyl	17.7	0.004	0.009	*	*	0.014	0.001
	Oxamyl oxime	12.1	0.003	0.012	*	*	0.012	0.006
	Permethrin cis	39.7	0.011	0.017	*	*	0.034	0.003
	Permethrin trans	43.1	0.012	0.016	*	0.015	0.038	0.004
	Propiconazole	24.1	0.008	0.014	*	*	0.024	0.005
	Propiconazole I	8.2	0.003	0.018	*	*	*	*
	Propiconozole II	11.2	0.005	0.023	*	*	0.019	0.004
	Pyraclostrobin	12.4	0.004	0.004	*	*	0.004	*
	Trifloxystrobin	8.0	0.001	0.001	*	*	*	*
5	**Green Beans (W)**							
	Acephate	20.2	0.049	0.052	*	*	0.11	0.037
	Azoxystrobin	21.3	0.007	0.008	*	*	0.013	0.004
	Carbendazim (MBC)	10.8	0.006	0.015	*	*	0.010	0.005
	Chlorothalonil	9.3	0.018	0.032	*	*	*	*
	Endosulfan I	4.8	0.003	0.013	*	*	*	*
	Endosulfan II	4.1	0.002	0.012	*	*	*	*
	Endosulfan sulfate	9.1	0.010	0.019	*	*	*	*
	Esfenvalerate	10.4	0.005	0.018	*	*	0.018	0.35
	Methamidophos	18.6	0.019	0.022	*	*	0.065	0.065
	Pyraclostrobin	5.2	0.001	0.003	*	*	*	*
6	**Greens, Collard (W) (January-September only)**							
	Azoxystrobin	23.6	0.038	0.040	*	*	0.039	0.002
	Boscalid	3.8	0.002	0.009	*	*	*	*
	Cyfluthrin	2.4	0.009	0.072	*	*	*	*
	Cypermethrin	19.9	0.20	0.25	*	0.001	0.78	0.056
	DCPA	34.7	0.030	0.032	*	0.017	0.051	0.01
	DDE p,p'	7.3	0.001	0.004	*	*	*	*
	Endosulfan sulfate	9.3	0.017	0.028	*	*	*	*
	Imidacloprid	12.7	0.010	0.018	*	*	0.016	0.005
	Indoxacarb	6.4	0.014	0.022	*	*	*	*
	Linuron	10.2	0.001	0.002	*	*	0.002	NT
	Methoxyfenozide	6.6	0.027	0.034	*	*	*	*
	Permethrin Total	12.7	0.31	0.40	*	*	0.79	0.053
	Pyraclostrobin	7.6	0.023	0.025	*	*	*	*
	Spinosad A	13.4	0.020	0.021	*	*	*	*
	Spinosad D	12.9	*	0.001	*	*	0.001	*
7	**Greens, Kale (W) (January-September only)**							
	Acetamiprid	7.0	0.010	0.018	*	*	*	*
	Azoxystrobin	15.9	0.061	0.062	*	*	0.008	*
	Boscalid	5.7	0.031	0.039	*	*	*	*
	Cypermethrin	14.3	0.094	0.15	*	*	0.25	0.018
	DCPA	36.6	0.017	0.019	*	0.010	0.057	0.011

	Commodity / Pesticide	% of Samples with Detections	Mean (ppm) [2] Lower	Mean (ppm) [2] Upper	Percentiles (ppm) 50th	Percentiles (ppm) 75th	Percentiles (ppm) 90th	Ratio of 90th Percentile to Tolerance
7	**Greens, Kale (W) (January-September only) - continued**							
	DDE p,p'	13.0	0.002	0.005	*	*	0.008	0.015
	Dieldrin	7.7	0.001	0.003	*	*	*	*
	Endosulfan I	19.2	0.002	0.004	*	*	0.008	0.004
	Endosulfan II	12.5	0.001	0.005	*	*	0.005	0.002
	Endosulfan sulfate	9.0	0.004	0.015	*	*	*	*
	Imidacloprid	25.4	0.016	0.024	*	0.011	0.041	0.012
	Indoxacarb	5.6	0.018	0.027	*	*	*	*
	Malathion	4.8	0.002	0.005	*	*	*	*
	Methoxyfenozide	11.5	0.079	0.087	*	*	0.009	*
	Pyraclostrobin	11.7	0.050	0.051	*	*	0.004	*
	Spinosad A	9.1	0.004	0.006	*	*	*	*
8	**Green Onions (W) (October-December only)**							
	Azoxystrobin	60.0	0.011	0.012	0.003	0.008	0.048	0.006
	Cyromazine	20.0	0.007	0.013	*	*	0.034	0.011
	DCPA	60.0	0.011	0.011	0.002	0.005	0.048	0.048
	Spinosad	10.0	*	0.001	*	*	0.001	*
9	**Honey (W)** (in parts per billion)							
	Coumaphos	37.5	0.62	1.2	*	1.2	1.9	0.013
	Dicofol p,p'	6.2	0.43	1.4	*	*	*	NT
	2,4-dimethylphenyl formamide	12.9	1.4	4.9	*	*	4.9	0.005
	Fluvalinate	9.5	0.21	1.1	*	*	*	*
10	**Nectarines (W)**							
	Azinphos methyl	7.2	0.003	0.006	*	*	*	*
	Chlorpyrifos	3.5	*	0.005	*	*	*	*
	Fenhexamid	12.1	0.054	0.077	*	*	0.082	0.008
	Fludioxonil	58.1	0.28	0.32	0.20	0.47	0.67	0.13
	Formetanate hydrochloride	65.0	0.005	0.005	0.001	0.003	0.005	0.001
	Iprodione	10.1	0.18	0.21	*	*	0.098	0.005
	Phosmet	42.3	0.019	0.021	*	0.019	0.064	0.013
	Propiconazole	11.2	0.018	0.050	*	*	0.042	0.021
11	**Peaches (W) (January-September only)**							
	Azinphos methyl	8.7	0.006	0.009	*	*	*	*
	Boscalid	15.9	0.011	0.012	*	*	0.029	0.017
	Captan	10.0	0.008	0.019	*	*	0.014	0.001
	Carbaryl	10.7	0.034	0.036	*	*	0.003	*
	Chlorpyrifos	6.6	0.001	0.013	*	*	*	*
	Cyfluthrin	6.3	0.002	0.016	*	*	*	*
	Cyhalothrin, Lambda	6.3	0.001	0.005	*	*	*	*
	Cyhalothrin, Total	3.7	0.001	0.003	*	*	*	*
	Esfenfalverate + Fenvalerate	11.4	0.003	0.006	*	*	0.004	*
	Fenbuconazole	8.3	0.006	0.033	*	*	*	*
	Formetanate hydrochloride	20.1	0.002	0.002	*	*	*	*
	Imidacloprid	2.4	*	0.004	*	*	*	*

Commodity / Pesticide	% of Samples with Detections	Mean (ppm) [2]		Percentiles (ppm)			Ratio of 90th Percentile to Tolerance
		Lower	Upper	50th	75th	90th	
11 Peaches (W) (January-September only) - continued							
Iprodione	10.3	0.18	0.19	*	*	0.054	0.003
Methoxyfenozide	19.0	0.007	0.009	*	*	0.026	0.009
1-Naphthol	9.2	0.015	0.024	*	*	*	*
o-Phenylphenol	15.9	0.004	0.012	*	*	0.019	0.001
Phosmet	40.1	0.038	0.041	*	0.034	0.110	0.011
Propiconazole	15.2	0.030	0.061	*	*	0.114	0.057
Propiconazole I	8.3	0.005	0.020	*	*	*	*
Propiconazole II	9.4	0.008	0.024	*	*	*	*
Pyraclostrobin	11.9	0.005	0.007	*	*	0.013	0.014
Spinosad A	11.0	0.001	0.002	*	*	0.002	0.011
Spinosad D	3.9	0.001	0.001	*	*	*	*
Tetrahydrophthalimide (THPI)	7.5	0.009	0.046	*	*	*	*
Thiabendazole	5.1	0.002	0.023	*	*	*	*
12 Potatoes (W)							
Azoxystrobin	15.8	*	0.002	*	*	0.002	0.073
Boscalid	10.5	0.001	0.003	*	*	0.001	0.028
Chlorpropham	57.9	2.1	2.1	0.39	4.7	5.9	0.20
Imidacloprid	36.8	0.003	0.004	*	0.004	0.011	0.028
o-Phenylphenol	22.2	0.005	0.013	*	*	0.026	NT
Thiabendazole	5.3	0.038	0.066	*	*	*	*
13 Spinach (W)							
Cyfluthrin	10.0	0.024	0.086	*	*	0.115	0.019
Imidacloprid	15.0	0.007	0.015	*	*	0.034	0.010
Methoxyfenozide	10.0	0.025	0.033	*	*	0.021	0.001
Permethrin Total	55.6	1.7	1.7	0.34	2.0	5.9	0.30
Permethrin cis	50.0	0.80	0.81	0.80	1.6	1.6	0.08
Permethrin trans	50.0	1.2	1.2	1.2	2.4	2.4	0.12
Spinosad A	31.6	0.004	0.006	0.001	0.005	0.028	0.004
Spinosad D	9.1	0.001	0.002	*	*	*	*
14 Strawberries (W)							
Acetamiprid	20.0	0.050	0.058	*	*	0.25	0.42
Bifenthrin	40.0	0.017	0.020	*	0.009	0.077	0.026
Boscalid	80.0	0.18	0.18	0.11	0.18	0.50	0.11
Captan	60.0	0.048	0.052	0.020	0.038	0.18	0.009
Carbendazim (MBC)	33.3	0.031	0.041	*	0.092	0.092	0.018
Cyprodinil	20.0	0.042	0.056	*	*	0.21	0.042
Fenhexamid	25.0	0.015	0.032	*	0.030	0.060	0.020
Fludioxonil	20.0	0.016	0.022	*	*	0.082	0.041
Malathion	20.0	0.013	0.014	*	*	0.067	0.008
Methomyl	20.0	0.080	0.098	*	*	0.40	0.20
Myclobutanil	60.0	0.006	0.011	0.001	0.003	0.028	0.056
Propiconazole	25.0	0.001	0.002	*	0.003	0.006	0.004
Pyraclostrobin	100	0.051	0.051	0.042	0.065	0.14	0.12

Commodity / Pesticide	% of Samples with Detections	Mean (ppm) [2] Lower	Mean (ppm) [2] Upper	Percentiles (ppm) 50th	Percentiles (ppm) 75th	Percentiles (ppm) 90th	Ratio of 90th Percentile to Tolerance
14 Strawberries (W) - continued							
Pyrimethanil	20.0	0.034	0.036	*	*	0.17	0.057
Spinosad A	20.0	0.002	0.005	*	*	0.009	0.009
Triflumizole	20.0	0.002	0.013	*	*	0.010	0.005
15 Summer Squash (W) (January-September only)							
Dieldrin	12.4	0.004	0.006	*	*	0.008	0.075
Endosulfan I	42.8	0.009	0.010	*	0.009	0.026	0.026
Endosulfan II	15.0	0.001	0.004	*	*	0.005	0.005
Endosulfan sulfate	66.5	0.027	0.028	0.020	0.042	0.074	0.074
Imidacloprid	17.4	0.005	0.013	*	*	0.023	0.045
o-Phenylphenol	10.3	0.006	0.015	*	*	0.037	NT
Pyraclostrobin	10.5	0.001	0.002	*	*	0.002	0.004
Thiamethoxam	6.6	0.001	0.029	*	*	*	*
16 Sweet Potatoes (W) (October-December only)							
Dicloran	27.6	0.26	0.27	*	0.094	0.51	0.051
17 Tomatoes (W)							
Azoxystrobin	12.0	0.001	0.003	*	*	0.003	0.017
Chlorothalonil	12.1	0.004	0.007	*	*	0.008	0.002
Endosulfan I	8.4	0.001	0.005	*	*	*	*
Endosulfan II	15.1	0.002	0.006	*	*	0.011	0.011
Endosulfan sulfate	11.6	0.001	0.006	*	*	0.006	0.006
Methamidophos	7.9	0.003	0.009	*	*	*	*
Permethrin cis	6.9	0.002	0.009	*	*	*	*
Permethrin trans	7.1	0.002	0.009	*	*	*	*

NOTES

[1] Includes some pairs with detections in more than 5 percent of the samples, but with estimated detections in less than 5 percent of the population. Excludes pairs with less than 100 sample observations or without observations in all participating States.

[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.

NT No tolerance established.

Weighting the sample for national estimates:

National estimates were computed from the samples collected in 10 participating States by benchmarking the data to national numbers. For example, if 35 percent of a commodity consumed domestically in 2008 was known to be in category A, while 65 percent was in category B, the commodity sample would be divided into the two categories. If P_A of the commodity sample in category A had a detectable residue of a pesticide while P_B of the sample in category B had a detectable residue of that same pesticide, then the national estimate of detectable residues for the pesticide/commodity pair was $.35 \times P_A + .65 \times P_B$.

For 2008, estimates were benchmarked to place-of-origin data, usually imported versus domestically grown product. Analysis showed that place-of-origin is often strongly correlated with pesticide residues. The USDA Economic Research Service (ERS) supplied 2008 import fractions for most domestically consumed commodities. A single fraction was provided covering both fresh nectarines and peaches. Similarly, a single import fraction was deduced for all greens.

Some commodities were further benchmarked by State of origin using USDA National Agricultural Statistics Service (NASS) data, with several States often grouped together (e.g., Florida and Georgia or all States other than California). Similarly, some commodities were further benchmarked by country of origin using USDA Foreign Agriculture Service (FAS) data.

Most domestic data were for 2008, but 2002 Census-of-Agriculture data were used for greens because NASS does not collect annual greens data. Summer squash was benchmarked to all-squash numbers (both winter and summer varieties). This is the only level of aggregation at which NASS and ERS collect and publish data.

Slightly over 5 percent of domestic samples and 0.2 percent of imported samples had no State/country of origin. To use these records, samples marked as domestic (or imported) but without a specific originating State (or country) were prorated across the benchmarking States (or countries) using averages within the collection State and season. For example, if 40 percent of the winter sample of a commodity collected in Texas had California listed as the State of origin and 60 percent came from other States, then a winter sample of that commodity collected in Texas and marked as domestic, but without a State of origin, would be treated as 40 percent from California and 60 percent from other States. A similar process was used for samples with unknown import/domestic status (1.1 percent of the samples).

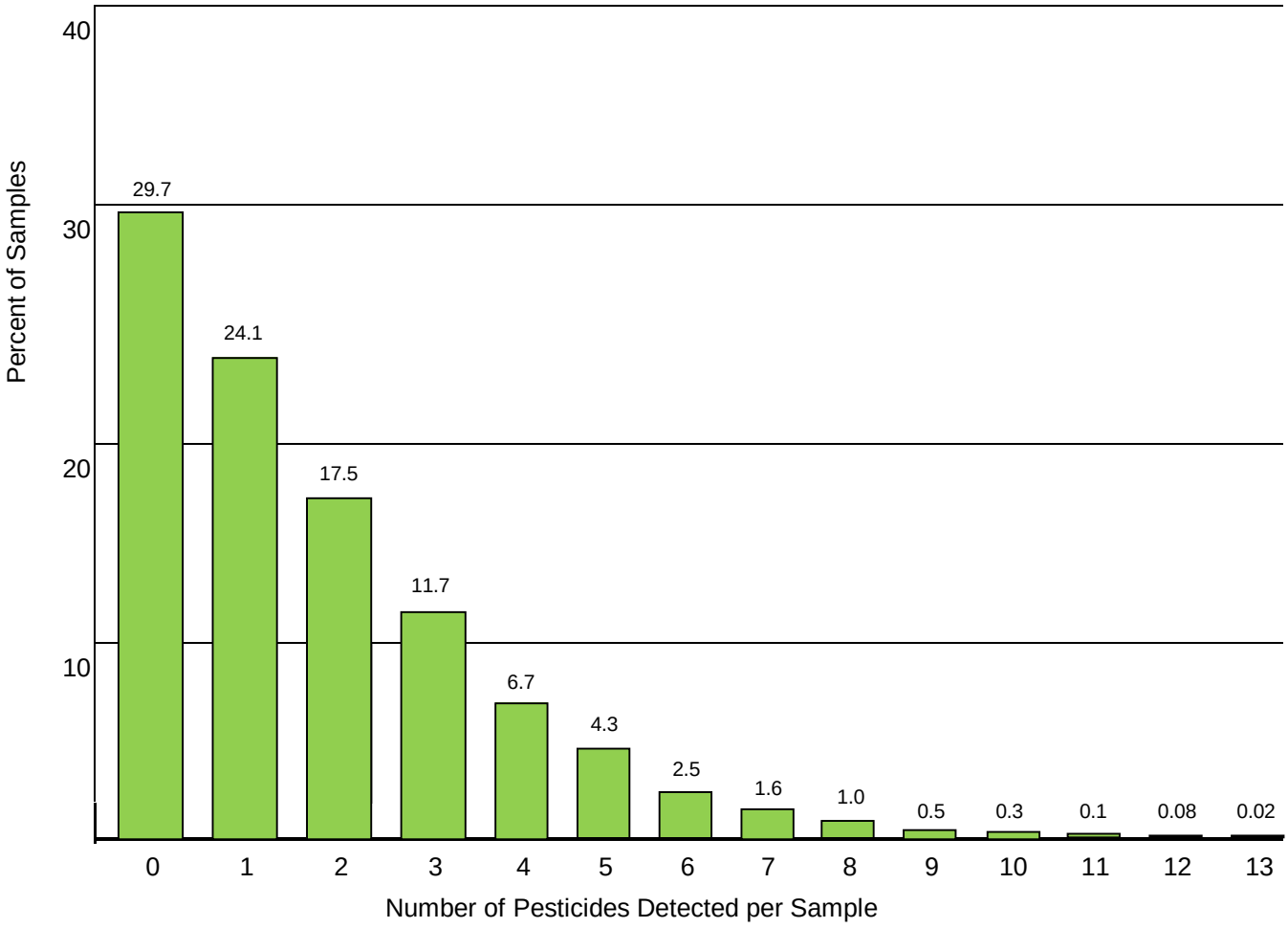
Appendix M

Number of Pesticides Detected per Sample

Appendix M shows the percentage of samples versus the number of pesticides detected per sample, excluding catfish, groundwater, and 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 11,960 samples analyzed, 29.7 percent of the samples had no detectable pesticides, 24.1 percent had 1 pesticide, and 46.2 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 M. SAMPLES vs. NUMBER OF PESTICIDES[1] DETECTED PER SAMPLE[2]



Number of Pesticides Detected per Sample

	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Number of Samples	3,547	2,878	2,094	1,397	800	510	304	193	120	57	31	18	9	2
Percent of Total Samples	29.7	24.1	17.5	11.7	6.7	4.3	2.5	1.6	1.0	0.5	0.3	0.1	0.08	0.02

TOTAL NUMBER OF SAMPLES = 11,960

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 catfish, groundwater, and finished/untreated drinking water samples.

APPENDIX M. 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	12	13
Fresh Fruit and Vegetables:	Percent													
Asparagus (372)	91.7	6.7	1.1	0.5	--	--	--	--	--	--	--	--	--	--
Blueberries (726)	20.2	19.1	19.0	15.8	12.3	5.9	4.3	1.8	1.2	0.1	--	--	0.1	--
Broccoli (554)	16.4	39.0	34.8	7.0	2.3	0.4	--	--	--	--	--	--	--	--
Celery (741)	4.5	6.5	10.5	12.8	14.8	17.0	9.6	9.4	7.7	3.0	1.8	1.6	0.5	0.3
Green Beans (741)	30.1	27.1	13.2	14.3	8.1	3.9	2.2	1.1	--	--	--	--	--	--
Green Onions (186)	21.0	36.0	27.4	9.7	4.8	1.1	--	--	--	--	--	--	--	--
Greens, Collard (240)	20.0	23.8	20.8	10.4	10.4	8.8	3.8	1.7	0.4	--	--	--	--	--
Greens, Kale (318)	28.0	24.5	15.1	12.3	11.6	4.1	2.8	0.6	0.3	0.6	--	--	--	--
Nectarines (672)	4.8	14.6	33.3	33.8	12.4	1.0	0.1	--	--	--	--	--	--	--
Peaches (616)	4.2	10.1	19.3	24.8	18.7	11.4	7.1	4.1	0.3	--	--	--	--	--
Potatoes (744)	9.5	34.1	31.2	16.5	6.3	2.0	0.3	--	--	--	--	--	--	--
Spinach (747)	13.9	22.9	25.8	19.7	7.6	7.5	1.5	0.8	0.1	0.1	--	--	--	--
Strawberries (741)	5.9	6.1	10.0	12.0	14.7	14.7	14.0	8.2	6.3	4.2	2.4	0.8	0.5	--
Summer Squash (554)	19.7	45.3	23.8	8.1	2.2	0.5	0.4	--	--	--	--	--	--	--
Sweet Corn, Fresh (152)	99.3	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Sweet Potatoes (184)	54.9	41.3	3.3	0.5	--	--	--	--	--	--	--	--	--	--
Tomatoes (740)	40.7	34.1	17.4	6.1	1.4	0.4	--	--	--	--	--	--	--	--
Processed Fruit and Vegetables:														
Apple Juice (372)	84.9	4.6	1.3	4.6	1.9	1.9	0.5	0.3	--	--	--	--	--	--
Blueberries, Frozen (18)	22.2	5.6	11.1	22.2	5.6	5.6	--	16.7	11.1	--	--	--	--	--
Kidney Beans, Canned (186)	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Grape Juice (745)	40.3	29.5	18.5	9.5	1.6	0.4	0.1	--	--	--	--	--	--	--
Sweet Corn, Frozen (33)	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent of Total Samples	26.9	22.0	18.4	13.1	7.7	4.9	2.9	1.9	1.2	0.55	0.30	0.17	0.09	0.02
Actual Number of Samples	2,789	2,279	1,914	1,361	796	510	303	193	120	57	31	18	9	2
TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 10,382														
Nut Product:														
Almonds (186)	40.9	28.0	23.7	5.9	1.1	--	0.5	--	--	--	--	--	--	--
Actual Number of Samples	76	52	44	11	2	--	1	--	--	--	--	--	--	--
Grain Product:														
Corn Grain (650)	45.5	45.5	7.5	1.4	--	--	--	--	--	--	--	--	--	--
Rice (184)	56.5	31.5	10.9	0.5	0.5	--	--	--	--	--	--	--	--	--
Actual Number of Samples	400	354	69	10	1	--	--	--	--	--	--	--	--	--
Honey Product:														
Honey (558)	50.5	34.6	12.0	2.7	0.2	--	--	--	--	--	--	--	--	--
Actual Number of Samples	282	193	67	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 552 catfish, 250 groundwater, and 619 drinking water samples.

Appendix N

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 N shows residues reported to the U.S. Food and Drug Administration (FDA) as exceeding the tolerance or residues for which no established tolerance was listed under the *Code of Federal Regulations, Title 40, Part 180*. In 2008, a total of 493 samples with 541 residues were reported to the FDA as Presumptive Tolerance Violations.

Excluding catfish, groundwater, and finished and untreated drinking water, residues exceeding the tolerance were detected in 60 samples including 3 blueberry samples, 2 celery samples, 1 corn grain sample, 2 green bean samples, 11 samples of collard greens, 10 kale samples, 7 potato samples, 16 spinach samples, 2 samples of strawberries, 5 samples of summer squash, and 1 tomato sample. Of those 60 samples, 9 were reported as imported produce and 1 was of unknown origin.

58 samples contained one residue exceeding the established tolerance.
2 samples contained two residues exceeding the established tolerances.

In addition, 442 samples were found to have residues for which no tolerance was established, including 397 fruit and vegetable samples, 2 samples of corn grain, and 43 honey samples.

413 samples contained 1 residue for which no tolerance was established.
23 samples contained 2 residues for which no tolerance was established.
4 samples contained 3 residues for which no tolerance was established.
2 samples contained 4 residues for which no tolerance was established.

Nine of the 442 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 N 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, the Pesticide Data Program accounted for both as part of the same tolerance expression.

APPENDIX N. 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	Country of Origin
1	Blueberries / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.006	0.040	0.01	Chile
2	Blueberries / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.006	0.038	0.01	Chile
3	Blueberries / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.006	0.029	0.01	U.S.
4	Celery / Fludioxonil	0.012	0.020	0.01	U.S.
5	Celery / Fludioxonil	0.012	0.020	0.01	U.S.
6	Corn Grain / Permethrin Total	0.014	0.088	0.05	U.S.
7	Green Beans / Metalaxyl	0.010	0.78	0.2	Mexico
8	Green Beans / Tetrahydrophthalimide (THPI)	0.10	0.20	0.05	Mexico
9	Greens, Collard / Acephate	0.030	0.66	0.02	U.S.
10	Greens, Collard / Acetamiprid	0.001	1.4	1.20	U.S.
11	Greens, Collard / Cyhalothrin, Lambda	0.006	0.022	0.01	U.S.
12	Greens, Collard / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.17	0.01	U.S.
13	Greens, Collard / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.097	0.01	Canada
14	Greens, Collard / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.072	0.01	U.S.
15	Greens, Collard / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.060	0.01	U.S.
16	Greens, Collard / Metalaxyl	0.010	0.90	0.1	U.S.
17	Greens, Collard / Metalaxyl	0.010	0.67	0.1	U.S.
18	Greens, Collard / Metalaxyl	0.010	0.61	0.1	U.S.
19	Greens, Collard / Metalaxyl	0.010	0.22	0.1	U.S.
20	Greens, Kale / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.33	0.01	U.S.
21	Greens, Kale / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.26	0.01	U.S.
22	Greens, Kale / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.19	0.01	U.S.
23	Greens, Kale / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.096	0.01	U.S.
24	Greens, Kale / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.085	0.01	U.S.
25	Greens, Kale / Esfenvalerate+Fenvalerate Total	0.13	0.77	0.05	U.S.
26	Greens, Kale / Esfenvalerate+Fenvalerate Total	0.13	0.44	0.05	U.S.
27	Greens, Kale / Esfenvalerate+Fenvalerate Total	0.13	0.41	0.05	U.S.
28	Greens, Kale / Esfenvalerate+Fenvalerate Total	0.13	0.24	0.05	U.S.
29	Greens, Kale / Myclobutanil	0.075	2.6	0.03	U.S.
30	Potatoes / Azoxystrobin	0.003	0.44	0.03	U.S.
31	Potatoes / Azoxystrobin	0.0005	0.28	0.03	U.S.

	Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
32	Potatoes / Azoxystrobin	0.0005	0.15	0.03	U.S.
33	Potatoes / Azoxystrobin	0.001	0.093	0.03	U.S.
34	Potatoes / Azoxystrobin	0.001	0.091	0.03	U.S.
35	Potatoes / Azoxystrobin	0.001	0.087	0.03	Canada
36	Potatoes / Azoxystrobin	0.001	0.061	0.03	U.S.
37	Spinach / Acephate	0.005	0.10	0.02	U.S.
38	Spinach / Bifenthrin	0.038	0.59	0.2	U.S.
39	Spinach / Chlorpyrifos	0.004	0.72	0.1	Unknown
40	Spinach / Cyhalothrin, Lambda	0.006	0.21	0.01	U.S.
41	Spinach / Cyhalothrin, Lambda	0.006	0.097	0.01	U.S.
42	Spinach / Cyhalothrin, Lambda [1]	0.002	0.072	0.01	U.S.
43	Spinach / Cyhalothrin, Lambda	0.006	0.044	0.01	U.S.
44	Spinach / Cyhalothrin, Lambda	0.006	0.042	0.01	U.S.
45	Spinach / Cyhalothrin, Lambda epimer R157836 [1]	0.002	0.072	0.01	U.S.
46	Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.25	0.01	U.S.
47	Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.22	0.01	U.S.
48	Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.15	0.01	U.S.
49	Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.12	0.01	U.S.
50	Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.11	0.01	U.S.
51	Spinach / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.050	0.090	0.01	U.S.
52	Spinach / Esfenvalerate+Fenvalerate Total	0.13	2.3	0.05	U.S.
53	Spinach / Esfenvalerate+Fenvalerate Total	0.13	0.78	0.05	U.S.
54	Strawberries / Myclobutanil	0.0004	0.54	0.50	U.S.
55	Strawberries / Pyrimethanil	0.003	4.4	3.0	Mexico
56	Summer Squash / Acephate [2]	0.005	0.20	0.02	U.S.
57	Summer Squash / Acephate	0.005	0.057	0.02	U.S.
58	Summer Squash / Heptachlor epoxide	0.002	0.16	0.05	U.S.
59	Summer Squash / Heptachlor epoxide	0.002	0.072	0.05	U.S.
60	Summer Squash / Methamidophos [2]	0.004	0.039	0.02	U.S.
61	Summer Squash / Tetrahydrophthalimide (THPI)	0.10	0.20	0.05	Mexico
62	Tomatoes / Flonicamid	0.006	0.57	0.40	Mexico

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 Asparagus								
Carbofuran	372	1	0.3	0.075 ^	0.002 - 0.010	0	1	0
2 Blueberries								
3-Hydroxycarbofuran	726	3	0.4	0.002 - 0.007	0.001 - 0.004	0	3	0
Linuron	726	1	0.1	0.003 ^	0.002 - 0.003	0	1	0
Oxamyl	726	1	0.1	0.003 ^	0.002 - 0.008	0	1	0
o-Phenylphenol [3]	603	3	0.5	0.005 - 0.012	0.003 - 0.010	1	2	0
Pirimicarb	515	1	0.2	0.15 ^	0.010 ^	0	1	0
Pyrimethanil	726	3	0.4	0.0005 ^	0.0003 - 0.003	2	1	0
Tebuconazole	726	6	0.8	0.003 - 0.046	0.002 - 0.020	0	6	0
Thiabendazole	712	1	0.1	0.0002 ^	0.0001 - 0.001	0	1	0
Thiacloprid	726	1	0.1	0.010 ^	0.0004 - 0.001	0	1	0
Trifloxystrobin	726	1	0.1	0.002 ^	0.0004 - 0.001	1	0	0
3 Broccoli								
Buprofezin	554	1	0.2	0.0002 ^	0.0001 ^	1	0	0
Chlorpropham	292	2	0.7	0.010 - 0.030	0.006 - 0.020	2	0	0
Dicloran	554	2	0.4	0.003 ^	0.002 ^	2	0	0
Dicofol p,p'	554	1	0.2	0.005 ^	0.003 ^	1	0	0
Etoxazole	554	1	0.2	0.0002 ^	0.0001 ^	1	0	0
Pronamide	554	1	0.2	0.010 ^	0.006 ^	1	0	0
Pyrimethanil	554	5	0.9	0.0005 - 0.008	0.0003 ^	5	0	0
Thiabendazole	538	4	0.7	0.0002 - 0.002	0.0001 - 0.001	1	0	3
4 Celery								
Chlorpropham	741	1	0.1	0.010 ^	0.006 - 0.010	1	0	0
Cycloate	526	7	1.3	0.001 - 0.021	0.0006 ^	7	0	0
DCPA	741	67	9	0.001 - 0.006	0.0007 - 0.003	64	2	1
Dimethomorph	741	9	1.2	0.002 - 0.003	0.0009 - 0.002	9	0	0
Iprodione	741	2	0.3	0.014 - 0.029	0.008 - 0.015	2	0	0
o-Phenylphenol [3]	629	4	0.6	0.043 - 0.060	0.003 - 0.010	4	0	0
Pronamide	526	2	0.4	0.010 ^	0.006 ^	2	0	0
Pyrimethanil	526	20	3.8	0.0005 - 0.003	0.0003 - 0.001	19	1	0
Thiabendazole	727	11	1.5	0.0002 - 0.001	0.0001 - 0.001	10	0	1
5 Corn Grain								
Methoxychlor p,p'	650	2	0.3	10 ^	6.0 ^	2	0	0
6 Green Beans								
Carbofuran	741	1	0.1	0.021 ^	0.002 - 0.010	1	0	0
Dinotefuran	741	9	1.2	0.013 - 0.22	0.005 - 0.010	7	1	1
Indoxacarb	741	1	0.1	0.010 ^	0.005 - 0.010	0	1	0
Oxamyl	741	4	0.5	0.014 - 0.15	0.008 - 0.010	3	1	0
Permethrin cis	215	1	0.5	0.025 ^	0.012 - 0.015	1	0	0
o-Phenylphenol [3]	598	1	0.2	0.017 ^	0.010 - 0.015	1	0	0
Propargite	2	2	100	0.006 ^	0.004 ^	2	0	0
Thiabendazole	741	4	0.5	0.002 - 0.026	0.001 - 0.010	2	2	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.
7 Green Onions								
Atrazine	170	1	0.6	0.003 ^	0.002 ^	1	0	0
Carbofuran [4]	186	1	0.5	0.014 ^	0.001 ^	1	0	0
3-Hydroxycarbofuran [4]	186	1	0.5	0.007 ^	0.004 ^	1	0	0
Imidacloprid	186	1	0.5	0.002 ^	0.001 ^	1	0	0
Pentachloroaniline (PCA)	186	1	0.5	0.002 ^	0.001 ^	1	0	0
Permethrin cis [5]	186	2	1.1	0.016 - 0.019	0.002 - 0.008	0	2	0
Permethrin trans [5]	186	2	1.1	0.015 - 0.019	0.008 ^	0	2	0
8 Greens, Collard								
Chlorothalonil	3	3	100	0.037 - 0.55	0.008 ^	3	0	0
Dinotefuran	240	5	2.1	0.032 - 0.56	0.005 - 0.010	5	0	0
Famoxadone	1	1	100	0.016 ^	0.002 ^	1	0	0
Linuron	80	4	5	0.003 - 0.007	0.002 ^	2	2	0
Methoxychlor p,p'	2	2	100	0.017 ^	0.010 ^	2	0	0
Oxamyl	160	1	0.6	0.042 ^	0.010 ^	1	0	0
Pendimethalin	164	4	2.4	0.033 - 0.10	0.015 - 0.020	4	0	0
o-Phenylphenol [3]	222	7	3.2	0.017 ^	0.010 - 0.015	7	0	0
Phosmet	160	1	0.6	0.13 ^	0.008 ^	1	0	0
Propiconazole I [6]	2	2	100	0.027 ^	0.016 ^	2	0	0
Propiconazole II [6]	2	2	100	0.027 - 0.049	0.016 ^	2	0	0
Thiabendazole	161	2	1.2	0.002 - 0.046	0.001 - 0.010	2	0	0
9 Greens, Kale								
Chlorothalonil	1	1	100	0.027 ^	0.008 ^	1	0	0
Chlorpropham	238	3	1.3	0.017 - 0.25	0.010 - 0.038	2	1	0
Dinotefuran	318	2	0.6	0.011 - 0.038	0.005 - 0.010	2	0	0
Famoxadone	1	1	100	0.022 ^	0.002 ^	1	0	0
Linuron	82	1	1.2	0.007 ^	0.002 ^	1	0	0
Methoxychlor p,p'	1	1	100	0.017 ^	0.010 ^	1	0	0
Oxydemeton methyl sulfone	236	2	0.8	0.012 - 0.28	0.010 ^	2	0	0
Pendimethalin	236	4	1.7	0.038 - 0.061	0.015 ^	3	1	0
Permethrin cis [5]	82	1	1.2	0.045 ^	0.012 ^	1	0	0
Permethrin trans [5]	82	1	1.2	0.020 ^	0.012 ^	1	0	0
Permethrin Total	236	12	5.1	0.37 - 8.0	0.10 ^	12	0	0
o-Phenylphenol [3]	300	7	2.3	0.017 ^	0.010 - 0.015	6	1	0
Prometryn	1	1	100	0.017 ^	0.010 ^	1	0	0
Pronamide	4	4	100	0.013 - 0.046	0.008 ^	4	0	0
Simazine	82	2	2.4	0.003 ^	0.002 ^	2	0	0
Tetradifon	1	1	100	0.010 ^	0.006 ^	1	0	0
Trifloxystrobin	236	1	0.4	0.013 ^	0.005 ^	1	0	0
10 Honey (in parts per billion)				(ppb)	(ppb)			
Azoxystrobin	558	3	0.5	3.3 - 4.0	2.0 ^	0	3	0
Carbendazim (MBC)	558	1	0.2	27.3 ^	5.0 ^	0	1	0
Dicloran	558	2	0.4	1.1 - 1.6	1.0 ^	1	1	0
Dicofol p,p'	558	32	5.7	1.0 - 90	1.0 ^	19	13	0
Methoxyfenozide	558	1	0.2	2.8 ^	2.0 ^	1	0	0
Permethrin Total	558	1	0.2	11 ^	10 ^	1	0	0
Vinclozolin	558	3	0.5	1.3 - 2.1	1.0 ^	1	2	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.
11 Nectarines								
Permethrin cis [5]	672	1	0.1	0.13 ^	0.024 ^	1	0	0
Permethrin trans [5]	672	1	0.1	0.15 ^	0.023 ^	1	0	0
12 Peaches								
Chlorpropham	180	1	0.6	0.017 ^	0.010 ^	1	0	0
Dimethoate	377	1	0.3	0.002 ^	0.001 - 0.005	0	1	0
Famoxadone	180	1	0.6	0.003 ^	0.002 ^	1	0	0
Imazalil	616	6	1	0.006 - 0.070	0.004 - 0.030	5	1	0
Parathion methyl	396	1	0.3	0.002 ^	0.001 - 0.014	1	0	0
Propargite	616	5	0.8	0.006 - 0.12	0.004 - 0.020	5	0	0
Thiabendazole	616	46	7.5	0.002 - 0.21	0.001 - 0.030	17	29	0
13 Potatoes								
Bromacil	308	1	0.3	0.004 ^	0.003 ^	1	0	0
o-Phenylphenol [3]	354	41	11.6	0.017 - 0.034	0.010 ^	40	1	0
14 Spinach								
Chlorothalonil	700	5	0.7	0.019 - 0.24	0.008 - 0.038	5	0	0
DCPA	744	4	0.5	0.005 - 0.012	0.003 - 0.008	3	1	0
Dicloran	722	5	0.7	0.010 - 0.13	0.006 - 0.013	5	0	0
Dimethomorph	216	5	2.3	0.003 - 0.53	0.002 ^	5	0	0
Iprodione	216	1	0.5	0.11 ^	0.015 ^	1	0	0
Linuron	216	7	3.2	0.003 - 0.013	0.002 ^	5	2	0
Phosmet	743	1	0.1	0.012 ^	0.003 - 0.008	1	0	0
Pronamide	109	1	0.9	0.013 ^	0.008 ^	1	0	0
Pyrimethanil	636	2	0.3	0.003 - 0.007	0.003 ^	2	0	0
Quinoxyfen	216	2	0.9	0.0008 ^	0.0005 - 0.001	2	0	0
15 Strawberries								
Dicloran	697	1	0.1	0.010 ^	0.006 - 0.025	0	1	0
Dimethoate	741	1	0.1	0.002 ^	0.001 - 0.005	0	1	0
Fenbuconazole	741	1	0.1	0.002 ^	0.0006 - 0.030	1	0	0
Propargite	741	1	0.1	0.006 ^	0.004 - 0.030	1	0	0
Tebuconazole	741	1	0.1	0.050 ^	0.012 - 0.020	1	0	0
16 Summer Squash								
Aldicarb sulfone	158	1	0.6	0.033 ^	0.009 ^	0	1	0
Dimethoate [7]	158	1	0.6	0.038 ^	0.001 ^	1	0	0
Omethoate [7]	158	1	0.6	0.020 ^	0.003 ^	1	0	0
Pentachlorobenzene (PCB)	158	1	0.6	0.015 ^	0.002 ^	0	1	0
o-Phenylphenol [3]	108	11	10.2	0.037 - 0.079	0.010 ^	4	7	0
17 Sweet Corn, Fresh								
Dimethoate	47	1	2.1	0.002 ^	0.001 ^	0	1	0
18 Sweet Potatoes								
Chlorpropham	184	1	0.5	0.017 ^	0.010 - 0.038	0	0	1

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin U.S.	Import	Unk.
19 Tomatoes								
Allethrin	740	1	0.1	0.089 ^	0.023 ^	0	0	1

NOTES

[1] Cyhalothrin, Lambda epimer R15783 was detected within the same sample as Cyhalothrin, Lambda.

[2] Methamidophos metabolite was detected within the same sample as Acephate. Tolerance is for Acephate.

[3] o-Phenylphenol is a fungicide with a number of crop tolerances. It is also an ingredient in many cleaning products and is used in the paper manufacturing process. Residues of o-Phenylphenol may be the result of direct use, transfer across commodities, or may originate from various paper and cleaning products.

[4] 3-Hydroxycarbofuran metabolite was detected within the same sample as Carbofuran.

[5] Permethrin cis and trans isomers were detected within the same samples.

[6] Propiconazole I and II isomers were detected within the same samples.

[7] Omethoate metabolite was detected within the same sample as Dimethoate.

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 2008

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