Pesticide Data Program

Annual Summary, Calendar Year 2010

United States Department of Agriculture

Agricultural Marketing Service

Science and Technology Programs

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

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USDA Agricultural Marketing Service

1400 Independence Avenue, SW.
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To the Reader:

I am pleased to present the Pesticide Data Program's (PDP) 20th Annual Summary for calendar year 2010. The U.S. Department of Agriculture implemented the PDP in 1991 to test food commodities for pesticide residues. The data produced by the PDP are used to estimate consumer dietary exposure to pesticides and the relationship of those exposures to science-based standards of safety. This report shows that overall pesticide residues found on foods tested are at levels below the tolerances (maximum legal residue levels) set by the U.S. Environmental Protection Agency (EPA).

Using a rigorous statistical approach to sampling along with the most current laboratory methods, the PDP tests a wide variety of domestic and imported foods. Foods tested include fresh and processed fruit and vegetables, meat and poultry, grains, catfish, rice, specialty products, and water.

The 1996 Food Quality Protection Act (FQPA) directs the Secretary of Agriculture to collect pesticide residue data on foods that are highly consumed, particularly by infants and children. For the first time, this year's report contains some data on baby food, cabbage, hot peppers, and mangoes. The FQPA also established a strict health-based standard for a "reasonable certainty of no harm" for pesticide residues in food to ensure consumer protection from unacceptable pesticide exposure. The EPA uses the PDP data as a critical component for dietary assessments of pesticide exposure, a critical step to verify that all sources of exposure to pesticides meet the safety standards set by the 1996 FQPA.

The PDP is not designed for enforcement of EPA tolerances. However, we inform the U.S. Food and Drug Administration if residues detected exceed the EPA tolerance or have no EPA tolerance established. In 2010, residues exceeding the tolerance were detected in 0.25 percent of the samples tested, and residues with no established tolerance were found in 4.6 percent of the samples. For baby food, the data showed that no residues were found that exceeded the tolerance levels, but residues with no established tolerance were found in 1.04 percent of the samples. The data reported by PDP corroborate that residues found in fruit and vegetables are at levels that do not pose risk to consumers' health (i.e., are safe according to EPA).

The PDP works with cooperating state agencies that are responsible for sample collection and analysis. Thirteen states participated in the program during 2010: California, Colorado, Florida, Maryland, Michigan, Minnesota, Montana, New York, North Carolina, Ohio, Texas, Washington, and Wisconsin. These states represent all regions of the country and more than half of the U.S. population.

For more information please visit our website at www.ams.usda.gov or the EPA at http://www.epa.gov/pesticides/food.

Sincerely,

David R. Shipman

David R. Shipman
Administrator

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The States participating in the Pesticide Data Program (PDP) deserve special recognition for their contributions to the program. The dedication and flexibility of sample collectors allow the Agricultural Marketing Service (AMS) to adjust sampling protocols when responding to changing trends in commodity distribution and availability. PDP acknowledges the contributions of the State laboratories, the U.S. Department of Agriculture's (USDA) AMS National Science Laboratory, the USDA 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. PDP provides high-quality data on residues in food, particularly foods most likely consumed by infants and children. This 20th Pesticide Data Program Summary presents results for samples collected in 2010.

This information is provided to the U.S. Environmental Protection Agency (EPA). Before a company can sell or distribute any pesticide in the United States of America, EPA must review studies on the pesticide to determine that it will not pose unreasonable risks to human health or the environment. Once EPA has made that determination, it will license or register that pesticide for use in strict accordance with label directions.

Before allowing a pesticide to be used on a food commodity, EPA sets limits on how much of a pesticide may be used on food during growing and processing, and how much can remain on the food that reaches the consumer. Government inspectors monitor food in interstate commerce to ensure that these limits are not exceeded. EPA also sets standards to protect workers from exposure to pesticides on the job.

AMS, through its Monitoring Programs Office (MPO), is responsible for the administration, planning and coordination of day-to-day PDP operations. MPO meets regularly with EPA and other government agencies to establish program priorities and direction. Sampling and/or testing program operations are carried out with the support of 13 States: California, Colorado, Florida, Maryland, Michigan, Minnesota, Montana, New York, North Carolina, Ohio, Texas, Washington, and Wisconsin. These States have a prominent role in program planning and policy setting, particularly policies relating to quality assurance. In addition to State laboratories, testing was conducted by USDA's AMS National Science Laboratory, USDA's Grain Inspection, Packers and Stockyards Administration Laboratory, and EPA's Analytical Chemistry Laboratory.

Drinking water sampling from public utilities was conducted by utility personnel while homeowners sampled their own well (ground) water. In 2010, a groundwater survey of schools and childcare facilities was performed in which school and childcare facility personnel sampled the well water serving the facility.

PDP commodity sampling is based on a rigorous statistical design that ensures the data are reliable for use in exposure assessments and can be used to draw various conclusions about the Nation's food supply. The pesticides and commodities to be included each year in the sampling are selected based on EPA data needs and take into account the types and amounts of food consumed by infants and children. The number of samples collected by the States is 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.

Fresh and processed fruit and vegetables accounted for 85.0 percent of the total samples collected in 2010. Other samples collected included water samples, 6.4 percent; catfish, 3.0 percent; eggs, 2.9 percent; and oats, 2.3 percent. Fresh and processed fruit and vegetables tested during 2010 were: apples, asparagus, baby food (green beans, pears, sweet potatoes), cabbage, cantaloupe, canned beans, cilantro, cucumbers, grapes, hot peppers, lettuce, mangoes, oranges, orange juice, pears, canned and frozen spinach, sweet bell peppers, sweet corn (fresh on-the-cob/frozen), sweet potatoes and watermelon. Approximately 73.8 percent of samples were from U.S. sources, 23.8 percent were imports, 1.4 percent was of mixed origin and 1.0 percent was of unknown origin.

Because PDP data are mainly used for risk assessments, PDP laboratory methods are geared

to detect the smallest possible levels of pesticide residues, even when those levels are well below the tolerances established by EPA. Prior to testing, PDP analysts washed samples for 10 seconds with gently running cold water as a consumer would do; no chemicals, soap or any special wash was used. Results for more than 1.9 million analyses were reported by the laboratories in 2010, too numerous to be included in their entirety in this summary. The PDP database file for 2010, and annual summaries and database files for previous years, are available on the PDP Web site at http://www.ams.usda.gov/pdp or by contacting MPO.

PDP is a voluntary program and is not designed for enforcement of tolerances. However, PDP informs the U.S. Food and Drug Administration if residues detected exceed the EPA tolerance or have no EPA tolerance established. In 2010, excluding water and catfish, residues exceeding the established tolerance were detected in 0.25 percent of the 11,644 samples tested, and residues with no established tolerance were found in 4.6 percent of the samples. Catfish and water are not included in these calculations because residue levels, if found, are mainly the result of environmental contamination or transfer, rather than from registered agricultural uses on the commodity. Appendices B through G provide a distribution of residues by pesticide for the commodities tested. More information on results is provided in the Sample Results and Discussion section of the summary.

PDP laboratories also test foods for low levels of environmental contaminants that are no longer used in the U.S., but due to their persistence in the environment, particularly in soil, can be taken up by plants. PDP tracks these contaminants and provides the data to the Codex Alimentarius Commission. Results for environmental contaminants in all commodities are listed in Appendix H.

In 2010, 567 (treated and untreated) drinking water samples were collected at water treatment facilities in 9 States and a total of 250 groundwater samples were collected from private domestic wells and school/childcare facilities. Low levels of detectable residues, measured in parts per trillion, were detected in both drinking water and groundwater. The majority of pesticides, metabolites, and isomers included in the PDP testing profiles were not detected. Two of the finished drinking water samples exceeded the EPA Maximum Contaminant Level for atrazine, but not for sufficient length of time to trigger regulatory action. Additional information is provided in the Sample Results and Discussion, Municipal Drinking Water section of this Annual Summary. None of the finished drinking water samples exceeded established EPA Health Advisory levels or established Freshwater Aquatic Organism criteria.

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 and 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 the Summary.

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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
EPA	Environmental Protection Agency
ERS	Economic Research Service
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
FQPA	Food Quality Protection Act
GC	Gas Chromatography
GIPSA	Grain Inspection, Packers and Stockyards Administration
GLP	Good Laboratory Practices
HA	Health Advisory
HCB	Hexachlorobenzene
ISO	International Organization for Standardization
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

NASS	National Agricultural Statistics Service
NSL	National Science Laboratory
PDP	Pesticide Data Program
ppb	parts per billion
ppm	parts per million
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
SDWA	Safe Drinking Water Act
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 2010

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) was initiated in 1991 to collect data on pesticide residues in food and 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).

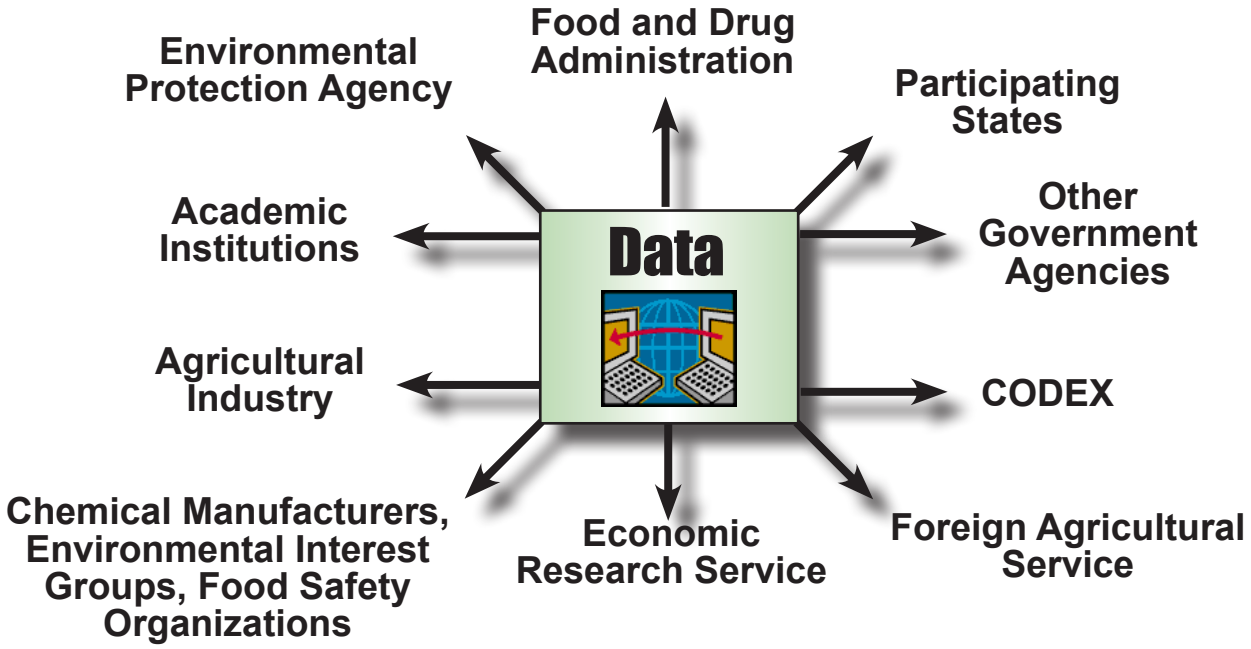
Because PDP collects data on food commodities primarily for exposure assessment, program operations differ markedly from those followed by regulatory monitoring programs for tolerance enforcement. PDP samples are collected closer to the point of consumption and are prepared emulating consumer practices. 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 contributors to 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 2010, sampling services were provided by 11 States (California, Colorado, Florida, Maryland, Michigan, New York, North Carolina, Ohio, Texas, Washington, and Wisconsin). Sampling services for drinking water were provided by participating facility personnel at 12 individual sites in 9 States [Alabama, Georgia, Illinois (2 sites), Kansas, Louisiana (2 sites), Minnesota, North Carolina, Tennessee (2 sites), and Texas]. A voluntary groundwater survey was continued in 2010 with homeowners at 27 sites in agricultural areas in California (10), Maryland (2), Michigan (9), Minnesota (1), and Virginia (5) collecting potable well samples for analysis. There were also 14 samples collected from municipal water facilities that draw from groundwater sources in Arizona, Illinois (2), Louisiana, Maine (2), Michigan, Mississippi, North Carolina (2), New York, Ohio, Oregon, and Texas. In addition, a survey of school/childcare facilities was begun. In 2010, 209 school/childcare facilities from 18 States (California, Connecticut, Florida, Indiana, Louisiana, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, New Jersey, New York, North Carolina, Oregon, Rhode Island, Virginia, Washington, and Wisconsin) were sampled and analyzed.

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 Grain Inspection, Packers and Stockyards Administration (GIPSA) Laboratory; and, the EPA Analytical Chemistry Laboratory (ACL). The AMS Monitoring Programs Office (MPO) is responsible for overall management of PDP.

(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.*

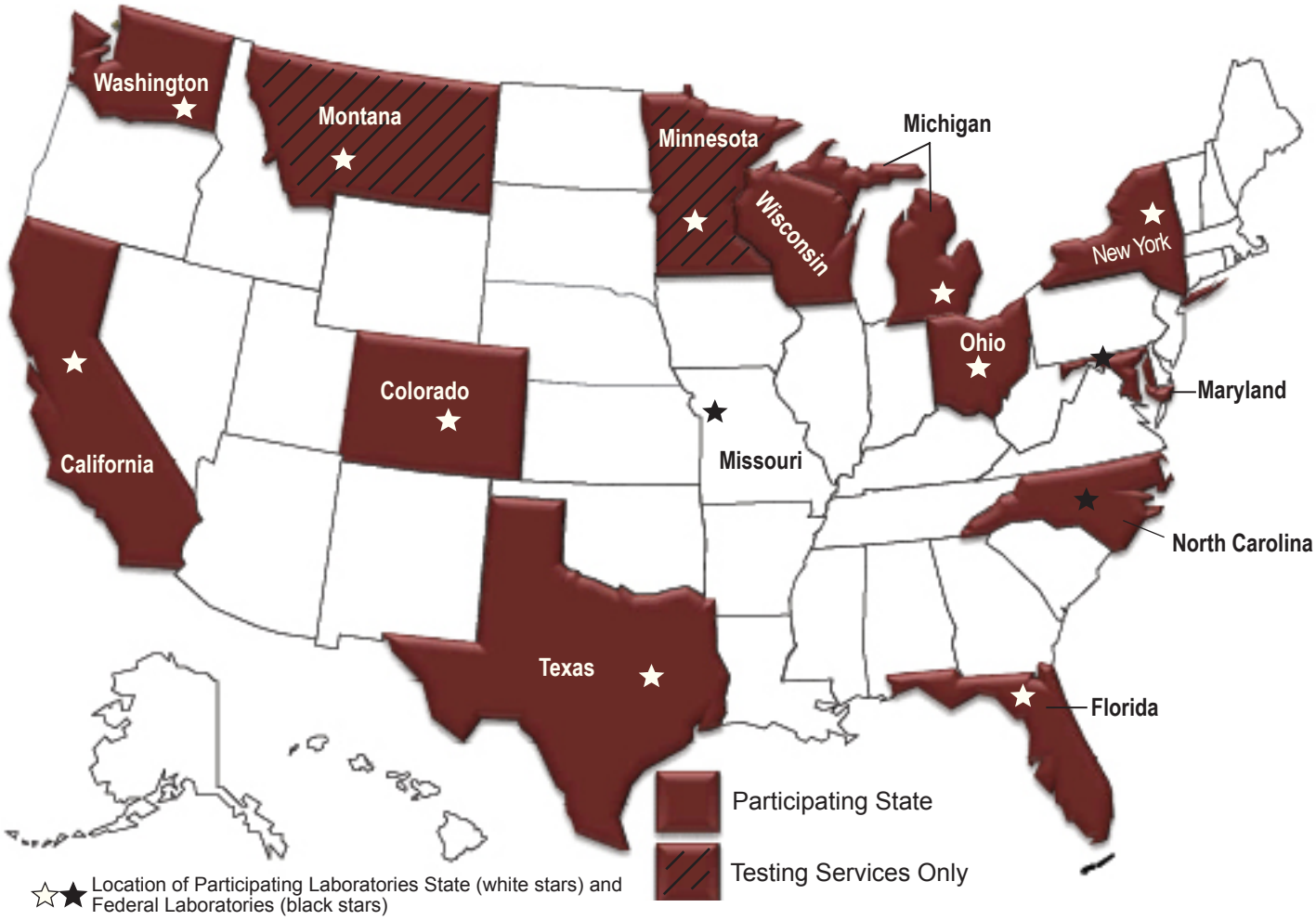


Figure 2. Program Participants. *During 2010, AMS established cooperative agreements with 13 States to sample and/or test PDP commodities. Together, these States represent about 50 percent of the Nation's population and all 4 census regions of the U.S. They also represent major U.S. producers of fruit and vegetables. State laboratories are responsible for analyzing fresh and processed fruit and vegetable samples and drinking water samples. The Federal AMS 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 EPA laboratory in Fort Meade, Maryland, performs specialty analyses for selected crops.*

Figure 2 shows the States that participate in program sampling and/or testing. 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 and groundwater sites. The selected commodities represent the highest U.S. consumption, with an emphasis on foods consumed by infants and children. Commodities are cycled through the program approximately every five years. Fresh fruit and vegetable commodities remain in the program for two years to capture two full growing seasons, thereby capturing any changes due to seasonality or year-to-year variations. Processed products, dairy, meat, fish and grains are tested for one full year. Appendix A provides a list of commodities tested by PDP from the beginning of the program in 1991 through 2011.

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, such as sprouting inhibitors) 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 2010, 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.

Treated and untreated drinking water samples are collected onsite by trained personnel at selected water treatment facilities across the country. Groundwater samples are collected from private potable wells by homeowners and State/school/Tribal and regional professional association officials. 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), oats (Appendix C), eggs (Appendix D), catfish (Appendix E), potable groundwater (Appendix F), and municipal drinking water (Appendix G). Environmental contaminants are consolidated into Appendix H, which summarizes findings for these chemicals across all commodities.

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 2010, fruit, vegetables, oats, eggs, and catfish 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 2010, 15.9 percent of fruit, vegetable, catfish, egg, and oat samples were collected at proxy sites. The commodities most often collected at these facilities were baby foods (green beans, pears, and sweet potatoes), canned beans, canned/frozen spinach, catfish, eggs, oats, and orange juice.

Treated and untreated drinking water samples were collected onsite by trained personnel at selected water treatment facilities across the country. Potable groundwater samples were collected from private domestic wells by homeowners and State/school/Tribal and regional professional association officials. Participation in the groundwater survey 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, oat, egg, and catfish samples collected in each participating State is determined by State population. 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 2010 commodities is shown in Table 1.

The number and location of drinking water samples from water treatment facilities are determined by

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Apples					Dec-10
Asparagus					Jun-10
Baby Food - Green Beans					Sep-11
Baby Food - Pears					Sep-11
Baby Food - Sweet Potatoes					Sep-11
Black Beans, Canned					Sep-10
Cabbage					Dec-11
Cantaloupe					Jun-12
Cilantro					Sep-10
Cucumbers					Dec-10
Eggs					Jun-11
Fish, Catfish					Jun-10
Garbanzo Beans, Canned					Mar-10
Grapes					Dec-10
Hot Peppers					Sep-11
Lettuce					Dec-11
Mangoes					Sep-10
Oats, Grain					May-10
Orange Juice					Sep-11
Oranges					Dec-10
Pears					Dec-10
Spinach, Canned					Mar-11
Spinach, Frozen					Jun-11
Sweet Bell Peppers					Mar-12
Sweet Corn, Fresh					Sep-10
Sweet Corn, Frozen					Sep-10
Sweet Potatoes					Sep-10
Water, Finished					Ongoing
Water, Groundwater					Ongoing
Water, Untreated					Ongoing
Watermelon					Sep-10

Table 1. PDP Commodity Collection Schedule for 2010. *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 2011).*

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 used.

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.

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 [canned beans, baby foods (green beans, pears, and sweet potatoes), oats, and canned spinach] are often shipped by ground transportation to reduce shipping costs. Catfish samples are collected in pesticide-free polyethylene bags, frozen overnight, and shipped by next-day delivery to the laboratory for analysis. Groundwater samples and raw intake and treated drinking water samples 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 2010, 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, 13; Colorado, 2; Florida, 7; Maryland, 4; Michigan, 6; New York, 9; Ohio, 6; Texas, 9; 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,

State	AP	AS	CB	CG	CL	CN	CU	GR	HP	LT	MA	OG	PE	PP	SW	WM	Total Fresh
California	156	78	114	155	115	78	156	156	39	156	78	156	156	156	112	76	1,937
Colorado	24	12	14	24	18	12	24	24	6	24	12	24	24	24	18	12	296
Florida	84	42	55	84	63	42	84	84	21	84	42	84	84	84	63	43	1,043
Maryland	48	24	33	48	36	24	48	48	12	48	24	48	48	48	36	24	597
Michigan	72	36	41	72	54	36	72	72	18	72	36	72	72	72	54	36	887
New York	108	54	72	108	81	54	108	108	27	108	54	108	108	108	81	54	1,341
N. Carolina																	
Ohio	72	36	33	72	54	36	72	72	18	72	36	72	72	72	54	36	879
Texas	108	54	75	108	80	53	108	109	27	107	54	108	107	108	81	54	1,341
Washington	48	24	33	48	36	24	48	48	12	48	24	48	48	48	36	24	597
Wisconsin	24	12	11	24	18	12	24	24	6	24	12	24	24	24	18	12	293
TOTAL	744	372	481	743	555	371	744	745	186	743	372	744	743	744	553	371	9,211

State	AB	CS	IG	IP	IS	OJ	SC	SF	ZB	Total Processed	Total Fresh & Proccessed F&V	Eggs EG	Fish FC	Grain OA
California	73		9	9	9	9	34	9	39	191	2,128	65	90	61
Colorado	12	4	6	6	6	6	6	6	6	58	354	13	12	10
Florida	42	8	21	21	21	21	21	21	21	197	1,240	43	42	34
Maryland	24	3	12	12	12	12	12	12	12	111	708	24	24	17
Michigan	36	13	18	18	18	18	18	18	18	175	1,062	42	36	30
New York	54	9	27	27	27	27	27	27	27	252	1,593	60	54	43
N. Carolina			35	35	35	35		35		175	175			
Ohio	36	21	18	18	18	18	18	18	18	183	1,062	36	36	29
Texas	54	5	28	27	27	27	27	27	27	249	1,590	52	54	45
Washington	24	3	12	12	12	12	12	12	12	111	708	24	24	20
Wisconsin	12	7	6	6	6	6	6	6	6	61	354	12	12	10
TOTAL	367	73	192	191	191	91	181	191	186	1,763	10,974	371	384	299

Commodity Legend		
AB = Black Beans, Canned	FC = Catfish	OJ = Orange Juice
AP = Apples	GR = Grapes	PE = Pears
AS = Asparagus	HP = Hot Peppers	PP = Sweet Bell Peppers
CB = Sweet Corn, Fresh (On-Cob)	IG = Baby Food - Green Beans	SC = Spinach, Canned
CG = Cabbage	IP = Baby Food - Pears	SF = Spinach, Fresh
CL = Cilantro	IS = Baby Food - Sweet Potatoes	SW = Sweet Potatoes
CN = Cantaloupe	LT = Lettuce	WM = Watermelon
CS = Sweet Corn, Frozen	MA = Mangoes	ZB = Garbanzo Beans, Canned
CU = Cucumbers	OA = Oats	
EG = Eggs	OG = Oranges	

Table 2. Distribution of Samples Collected and Analyzed by Each Participating State. *This table includes those commodities collected at terminal markets and distribution centers. This table does not show the groundwater or finished drinking water samples collected. Those distributions can be found in Figures 5 and 6 respectively.*

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 cucumbers, grapes, and sweet bell peppers. Fresh and processed fruit and vegetable, oat, egg, and catfish samples originated from 39 States, 1 U.S. territory, and 30 foreign countries (refer to Appendix I). Groundwater and drinking water samples are excluded from Appendix I because they rely on differential sampling frames.

♦ Fresh and Processed Commodities

Of all samples collected and analyzed in 2010, 85 percent (10,974 of 12,845) were fruit and vegetables, including fresh and processed products. The fresh commodities collected for PDP were apples, asparagus, cabbage, cantaloupe, cilantro, cucumbers, grapes, hot peppers, lettuce, mangoes, oranges, pears, sweet bell peppers, sweet corn on-the-cob, sweet potatoes, and watermelon. The processed commodities included baby food (green beans, pears, and sweet potatoes), canned beans (black and garbanzo), orange juice (ready-to-serve and concentrate), spinach (canned and frozen), and frozen sweet corn. All fresh fruit and vegetable samples weighed either 3 or 5 pounds with the exception of cilantro and hot pepper samples that weighed 1 pound. Three pounds were collected for smaller, low-weight commodities such as asparagus and grapes and 5 pounds were collected for larger, high-weight commodities such as apples and oranges. For processed samples, canned bean samples weighed 28 ounces; orange juice samples were 1 quart or 32 ounces, canned spinach samples were 28 ounces, frozen spinach samples were 3 pounds, and frozen sweet corn niblets weighed 3 pounds.

♦ Baby Food

In 2010, PDP initiated testing of three types of baby food – green beans, pears, and sweet potatoes. Acceptable samples included pureed Stage 1 (First Food) or Stage 2 (Second Food); domestic or imported; organic or conventional products. Either glass or plastic containers were acceptable. The minimum weight was 16 ounces, generally necessitating the collection of multiple containers within the same lot for a given sample. One hundred ninety-two samples of infant food green beans were collected and analyzed while 191 samples each of infant food pears and sweet potatoes were collected and tested.

♦ Eggs

In 2010, PDP collected and analyzed 371 egg samples. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets. A minimum of 12 eggs were collected for each of the samples. Analysis was performed by the USDA NSL in Gastonia, NC. Results for eggs are shown in Appendix D.

♦ Oats

In 2010, PDP collected 299 samples of oats. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets. One-pound oat samples included whole oats, rolled oats, steel-cut oats, and oat bran. Further processed oats, such as instant oats, quick oats, and oat flour were not included in the sampling scheme. Analysis was performed by the USDA GIPSA Laboratory in Kansas City, MO. Results for oats are shown in Appendix C.

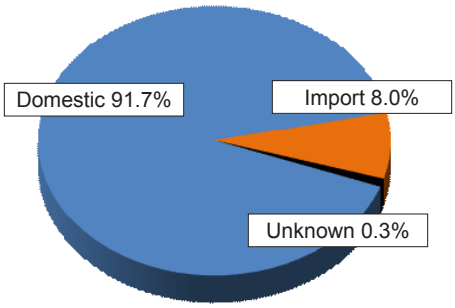
♦ Catfish

In 2010, PDP continued the catfish survey which began in 2008. Data were needed 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 not as widely available as it is for fruits and vegetables. FDA does cover imported and domestic seafood in its pesticide program and FDA data are available at http://www.fda.gov/Food/FoodSafety/FoodContaminantsAdulteration/Pesticides/default.htm.

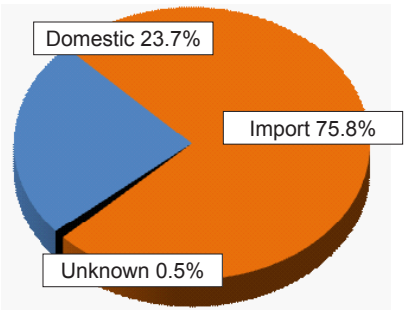
PDP sampling for catfish was designed to capture domestic and imported products, including farm-raised catfish. Catfish represents the largest sector

A. Fresh Fruit and Vegetable Samples

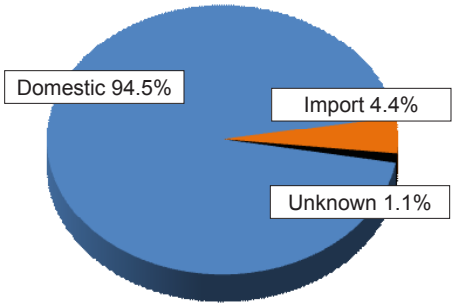
Apples (744 Samples)



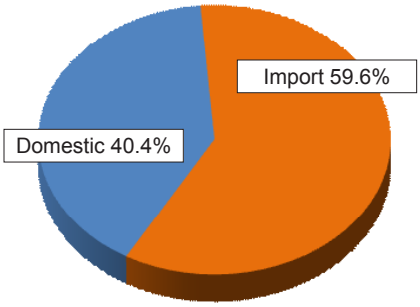
Asparagus (372 Samples)



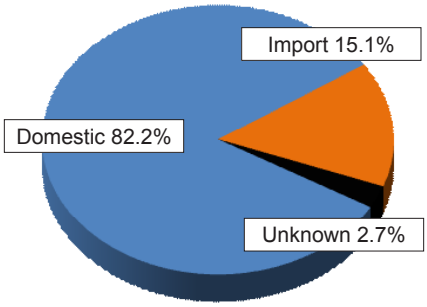
Cabbage (743 Samples)



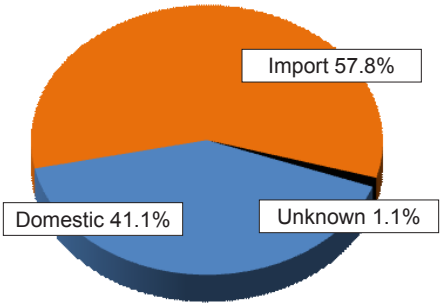
Cantaloupe (371 Samples)



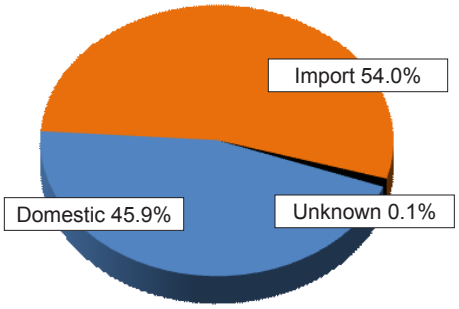
Cilantro (555 Samples)



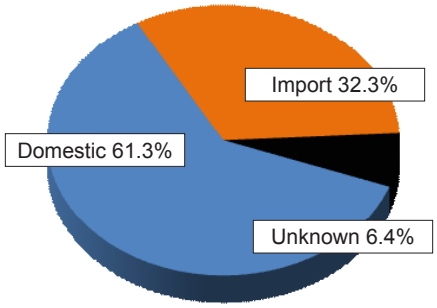
Cucumbers (744 Samples)



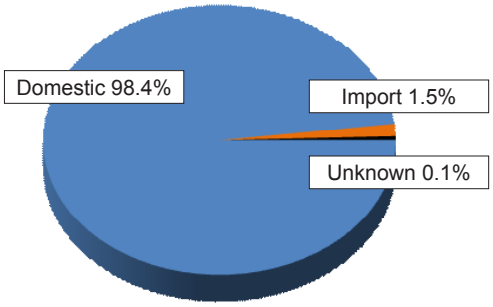
Grapes (745 Samples)



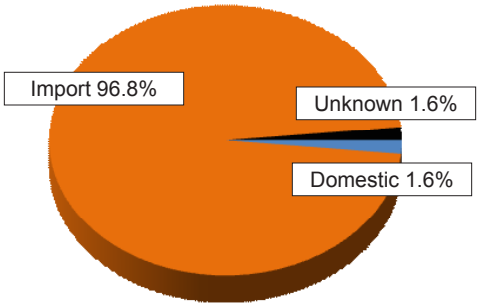
Hot Peppers (186 Samples)



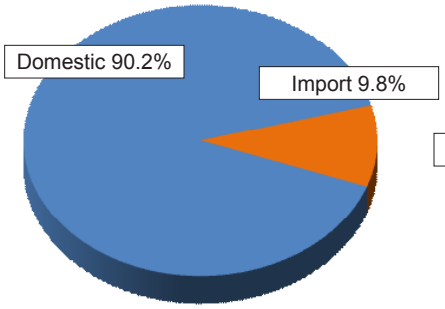
Lettuce (743 Samples)



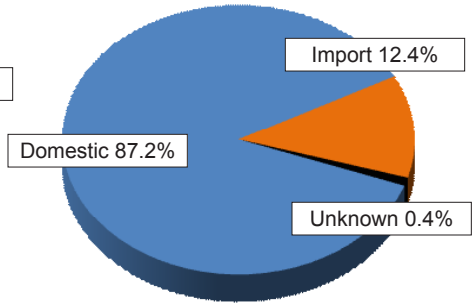
Mangoes (372 Samples)



Oranges (744 Samples)



Pears (743 Samples)



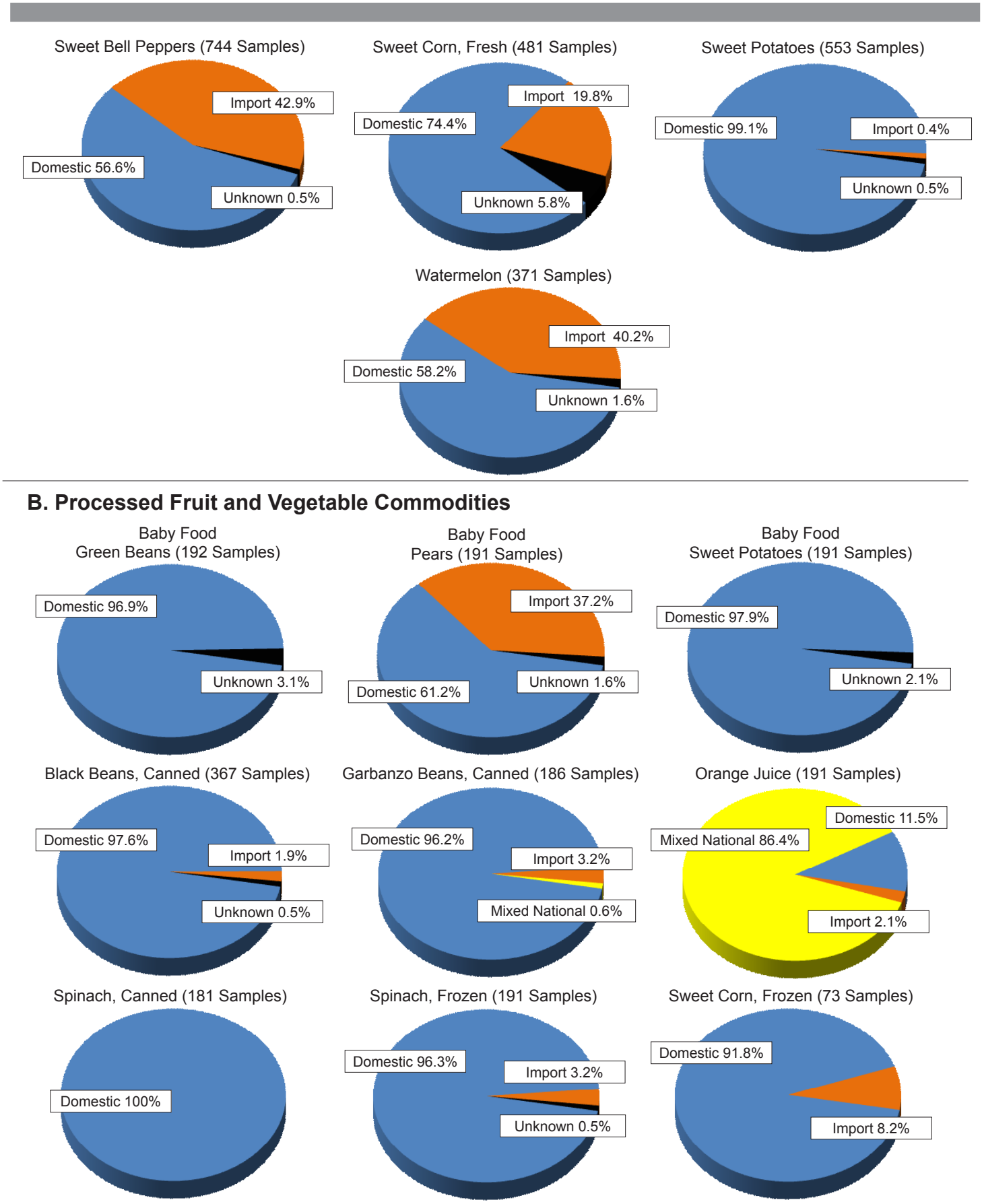


Figure 3. Commodity Origin. *This figure depicts the proportion of commodity origin (domestic, import, unknown and mixed national origin) for each fresh and processed fruit and vegetable product tested in 2010.*

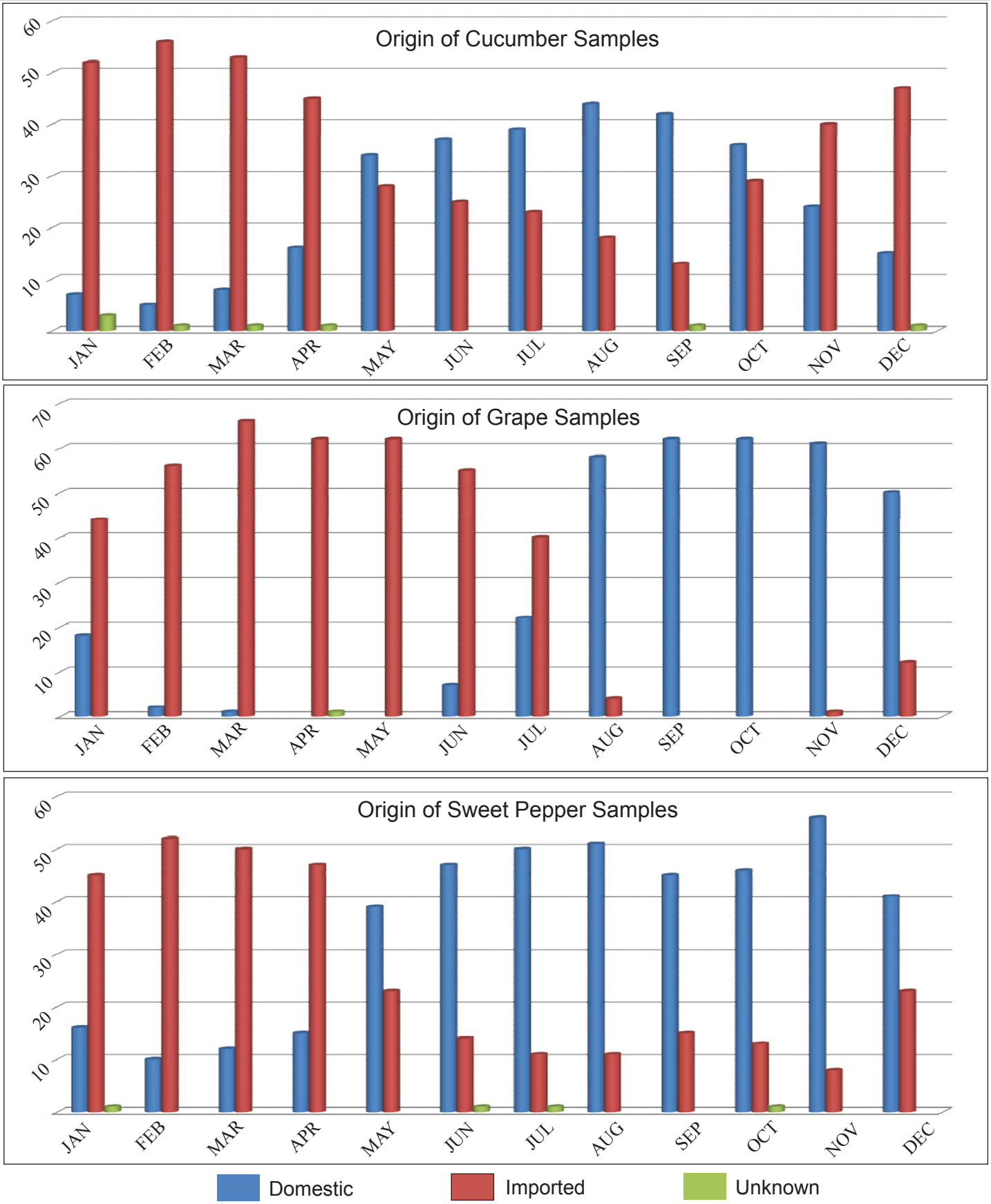


Figure 4. Origin of Selected Fresh Commodities: Cucumber, Grape and Sweet Pepper Samples. *Differences in origin (domestic vs. import) are illustrated by month. The targeted number of samples is 62 per month for each commodity.*

in the domestic aquaculture industry. The primary domestic production States in 2010 are, in order of production, Mississippi, Alabama, Arkansas, and Louisiana. The primary export 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 384 catfish samples in 2010. Each sample consisted of 1 pound of fresh or frozen raw catfish. Proxy/retail sites provided 53.4 percent of catfish samples, while distribution centers provided 32.3 percent of samples, terminal markets 4.4 percent, and wholesale or specialty fish markets 8.1 percent. Catfish fillets, nuggets, strips, or steaks were collected for testing rather than whole catfish. 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 in Gastonia, NC.

Because 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, and 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 labeled as farm-raised and of domestic origin. Approximately 71 percent of the samples were labeled as farm-raised, less than 1 percent as wild-caught, and the remainder of the samples had no available source information. Attribution of sample origin is based on label information or lack thereof. Approximately 75 percent of the samples originated in the United States, 23 percent were imported, 1 percent were of mixed origin, and 1 percent were unknown. These collection percentages are consistent with the U.S. Department of Commerce and NASS data on domestic production figures for 2010. Distribution of residues in catfish may be found in Appendix E.

♦ Drinking Water

Potable Groundwater

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 pesticide contamination, making it necessary to monitor these shallow groundwater wells to determine potential exposure to pesticides through water consumption for this segment of the population.

Some pesticides bind tightly to soils and therefore are unlikely to be found in groundwater; others, such as water-soluble pesticides, can move through soil to reach the water table. Movement of pesticides in soils and rock is much slower than in surface water – for example, pesticide movement in soils and rock is measured in centimeters per year while movement in surface water is measured in meters per year. Because of these differences in mobility, pesticide concentrations in groundwater are much less variable and samples do not need to be taken as frequently. Consequently, for these groundwater studies, a single annual sample was taken rather than the bimonthly samples taken for surface water.

A total of 250 samples were collected and tested for the 2010 groundwater program. These included 27 private residence wells in 5 States, 14 municipal water facilities that draw from groundwater sources in 11 States, and 209 school/childcare facilities in 18 States. For private residences, samples were collected at the kitchen faucet after a significant volume of water had been used (i.e., after morning showers) to ensure that water from the pressure tank or any storage tanks was depleted and that the water sampled was 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. Figure 5 shows the distribution of groundwater collection sites for the 2010 PDP testing program.

Schools and childcare facilities are often located on town perimeters due to lower land costs. Bringing utilities to these remote locations can be

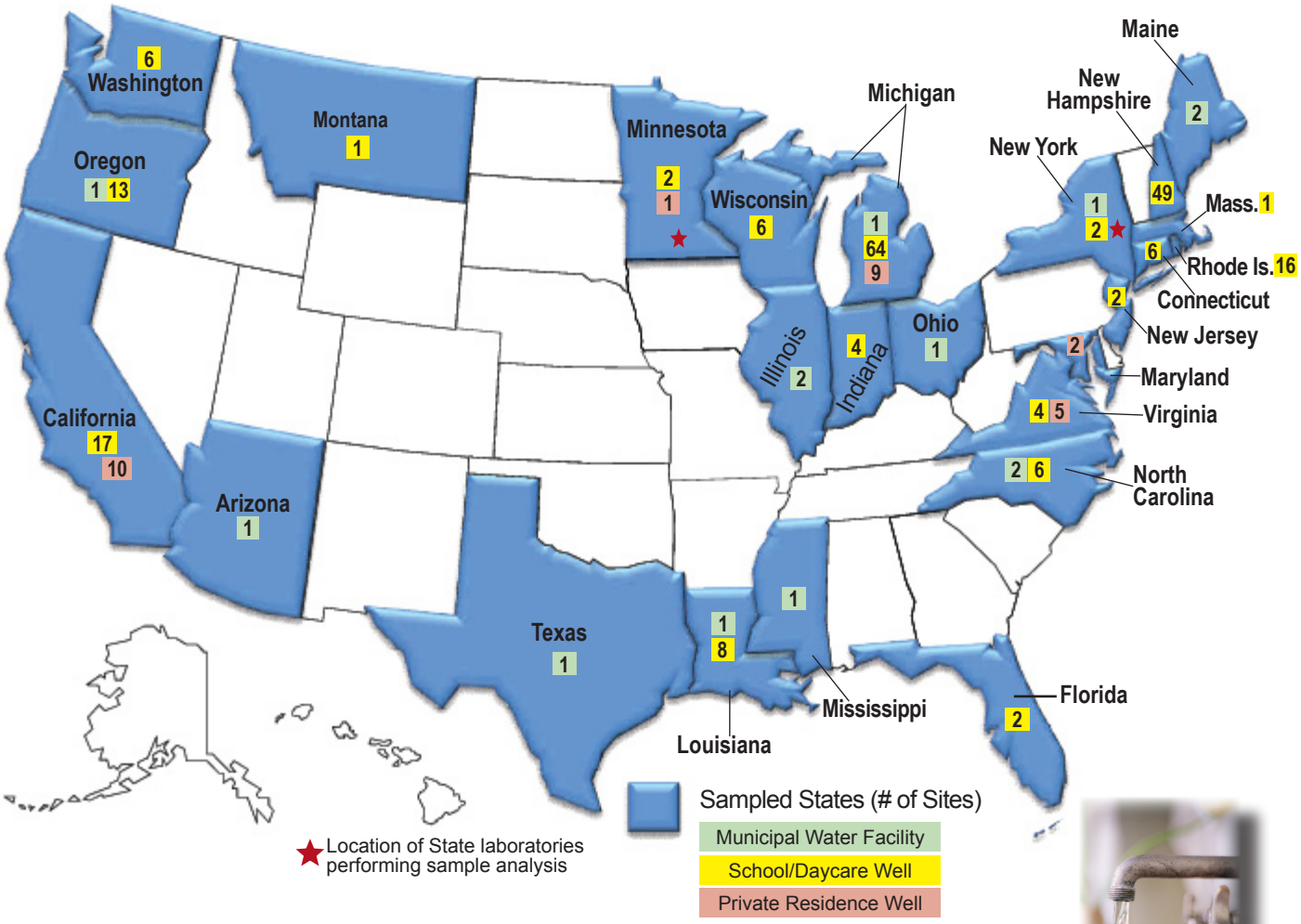


Figure 5. Location of Groundwater Collection Sites in 2010. *A total of 250 groundwater samples were collected from 14 municipal water facilities, 209 school/daycare wells, and 27 private residence wells in 25 States.*

expensive; therefore, onsite wells are often used for water supplies. As children are most susceptible to pesticides during their growth and developmental years and spend a significant portion of their lives at these locations, it is critical to have adequate data to evaluate children's potential exposure to pesticides through the consumption of water. The expense of testing for a large suite of pesticide residues at part-per-trillion levels is cost-prohibitive to most schools and homeowners, as well as to county and State governments. PDP collaborated with these groups on sample collection and provided them with their individual sample results.

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, often miles away. Thus, if pesticides are being used in the recharge zone, they may be transported through the aquifer to the well. The transport times from recharge points (where surface water and precipitation enter the ground en route to the aquifer) to the wells can take a significant amount of time, from many days to years. During this time, microbial and chemical degradation of the pesticide can occur. One can observe from the data in this report that it is often the pesticide metabolites that are detected and not the parent pesticide compound.

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 that draw water from groundwater obtain water from fairly deep (i.e., >200 foot) aquifers that are not generally susceptible to pesticide contamination.

The sample collection sites are community water systems that draw water from surface water sources. 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.

Samples were collected bimonthly by trained water treatment facility personnel. Paired samples of the raw intake water (untreated) and disinfected and 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. 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.

Figure 6 shows the distribution of drinking water sites for the 2010 PDP testing program. Untreated and finished drinking water samples were collected from community water systems from 12 sites in 9 States - Alabama, Georgia, Illinois (2 sites), Kansas, Louisiana (2 sites), Minnesota, North Carolina, Tennessee (2 sites), and Texas. Each watershed reflects the local topography, watershed size, geomorphology, soil types, geology, land use, land management practices, crop production, 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.

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

Fruit and vegetable samples were tested for 307 parent pesticides, metabolites, degradates, and/or isomers, plus 18 environmental contaminants using Multiresidue Methods (MRMs). Upon arrival at the testing facility, samples of fresh commodities were visually examined for acceptability and discarded if determined to be inedible (decayed, extensively bruised, or spoiled). Except for cantaloupe and oranges, fresh produce samples were washed under gently running cold water, emulating the practices of the average consumer to more closely represent actual exposure to residues. Samples were not cooked, bleached, or washed with detergents. Additionally, any inedible or damaged portions were removed prior to further preparation. For example, apples were cored and stems removed; oranges were peeled; sweet corn was husked and kernels removed from the cob, etc. Processed commodities were not washed or cooked prior to homogenization and were homogenized with all liquid that was present in the sample package. Orange juice concentrate was reconstituted according to package directions while ready-to-serve orange juice was simply mixed prior to removal of a portion for analysis. Detailed information on sample preparation for each commodity is available in the Laboratory Operations (PDP-LABOP) SOP on the PDP Web site at www.ams.usda.gov/pdp.

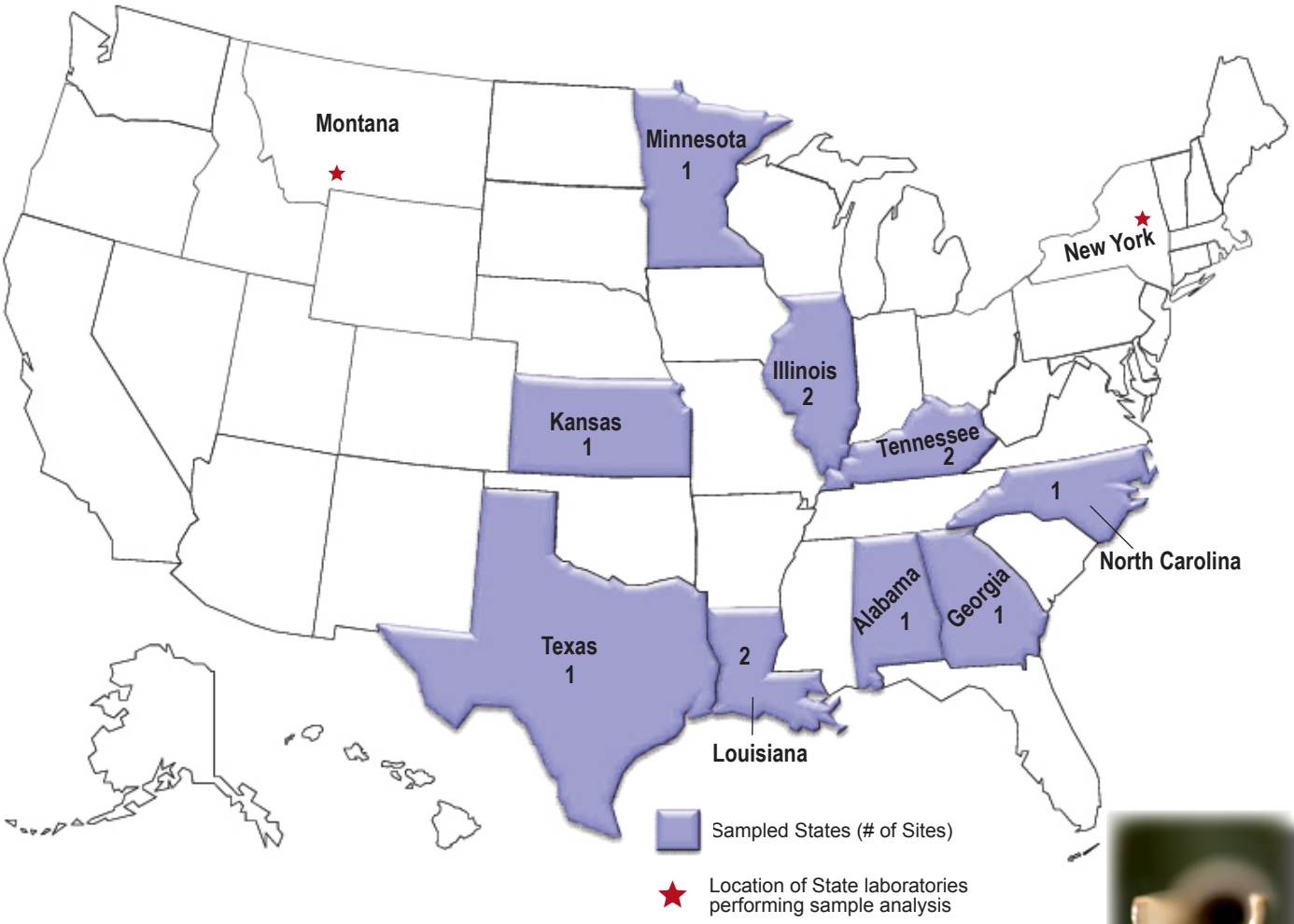


Figure 6. Location of Drinking Water Collection Sites at Community Water Systems in 2010. *A total of 12 water treatment facilities in the U.S. were sampled in paired units (567 coordinated treated and untreated samples). Sites represent areas of varied geographical settings but are located in watersheds where pesticides were known to have been heavily applied.*

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 cleanup procedures such as Solid Phase Extraction (SPE). The California, Florida, Michigan, Ohio, and Washington laboratories used various QuEChERS-based1 approaches. The Texas laboratory used a modification of the MRM developed by the California Department of Food and Agriculture (CDFA). 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. All MRMs are determined, prior to use and through appropriate method validation

procedures, to produce equivalent data for PDP analytical purposes.

PDP laboratories primarily use gas chromatography (GC) and liquid chromatography (LC) instrumentation, coupled with tandem mass spectrometry (MS) detection systems for the simultaneous identification/confirmation and quantitation of pesticides. The use of these GC-MS/MS and LC-MS/MS systems allows the program to capture data for a broad spectrum of pesticides, including emerging product chemistries.

♦ Macrocyclic Lactones

In 2010, PDP conducted a special survey of macrocyclic lactone compounds on lettuce. Homogenates of 743 lettuce samples were shipped by the Washington laboratory to the Colorado laboratory for the analysis of 9 macrocyclic lactone compounds (i.e., avermectin, doramectin, emamectin, eprinomectin, ivermectin, milbemectin, moxidectin, spinetoram, and spinosad). Samples were extracted using a modification of the QuEChERS method and analyzed using LC-MS/MS.

♦ Oats

The USDA GIPSA laboratory in Kansas City, MO, analyzed oat samples for 70 parent pesticides, metabolites, degradates, and/or isomers, plus 6 environmental contaminants. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if spoiled, or otherwise inedible. Oat 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 oat samples was accomplished using an acetonitrile-water solvent extraction and SPE cleanup coupled with GC-MS and LC-MS/MS detection.

♦ Eggs

The AMS NSL in Gastonia, NC, tested egg samples for 90 parent pesticides, metabolites, degradates, and/or isomers, plus 16 environmental contaminants. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if warm to the touch, spoiled, or cracked/leaking. Eggs comprising a sample (≥10 eggs) were cracked into a clean container (blender vessel) and shells were discarded. If not homogenized immediately after arrival, samples were stored at 2-4 °C until homogenized. Homogenization occurred within 3 days of receiving the samples. Samples were homogenized using a blender at low speed for approximately 20 seconds, with the introduction of air to the sample avoided as much as possible. Sample homogenates were placed into sample cups (approximately 90 ml per cup) and stored at -70°C prior to analysis. An approximately 15 gram aliquot was weighed for each sample followed by organic solvent extraction, centrifugation, and column/dispersive SPE clean up. 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.

♦ Catfish

The AMS NSL in Gastonia, NC, tested catfish samples for 176 parent pesticides, metabolites, degradates, and/or isomers, plus 19 environmental contaminants. 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. Samples were homogenized by grinding with dry ice in a large, high-speed food processor. 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.

♦ Potable Groundwater from Domestic and School/Childcare Facility Wells

In 2010, PDP conducted three groundwater testing studies: one for municipal water facilities that draw from groundwater sources, one for private domestic wells, and one for school/childcare facilities. Onsite wells providing drinking water to school/childcare facilities are regulated by EPA's Office of Water under the Safe Drinking Water Act (SDWA) as non-transient, non-community water systems. SDWA requires testing for the 23 compounds that have established maximum contaminant levels (MCLs). These compounds include only parent compounds – no metabolites are tested. In both surface and groundwater, metabolites, rather than parent compounds are more often detected. Furthermore, metabolites are often more water soluble and stable than parent compounds and are usually detected at higher concentrations than the parent compounds. EPA does not have established MCL levels or testing requirements for these metabolites.

Private residential wells supply drinking water to approximately 15 percent of the U.S. population. Private wells serving a single or a few families are not regulated under SDWA, or by other EPA statutes. These wells are typically fairly shallow and are often sourcing the closest, or most shallow, water source. Homes with wells tend to be located in more rural locations, often in agricultural areas. Due to the cost of analysis, data on pesticides and metabolites for these domestic wells is scarce.

The Minnesota laboratory analyzed groundwater samples for 117 parent pesticides, metabolites, degradates, and/or isomers. These compounds were determined to be of interest to EPA based on data needs for risk assessment as required under FQPA. Each sample consisted of three 1-liter amber glass bottles. Upon arrival at the testing laboratory, samples were visually examined for acceptability (no leakage). Samples were refrigerated until time of analysis, which began within five working days of collection. One liter of the sample was extracted for compounds amenable to GC-MS analysis and one liter was extracted for compounds amenable to 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 213 parent pesticides, metabolites, degradates, and/or isomers, plus 12 environmental contaminants. These compounds were determined to be of interest to EPA based on data needs for risk assessment as required under FQPA. 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-MS or GC-MS/MS analysis and another bottle was extracted for compounds amenable to LC-MS/MS analysis. The remaining bottle was held in reserve or extracted for specialty compounds requiring separate extraction/analytical procedures (e.g., pharmaceutical compounds). The extraction methods used were initially based on SPE methods developed by the U.S. Geological Survey (USGS); these methods were modified to capture specific analytes of interest and were independently validated by each testing laboratory.

♦ 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[1]) requirements. PDP State laboratories are accredited to ISO 17025.

[1] "ISO" is not an acronym because the initials would be different in various official languages. "ISO" is adopted from the Greek word "isos" meaning equal.

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 onsite by each laboratory's QAU. Final review procedures are performed by MPO staff that 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.

Identification/Confirmation: Identification and confirmation is performed primarily by MS technologies. 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 cleanup. 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, oats, eggs, and catfish, 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 or spike all compounds analyzed with each set, so that the amount of spike recovery data obtained actually exceeds the minimal requirements previously stated. During 2010, PDP laboratories quantitated a total of 65,986 matrix spikes, with an overall mean recovery of 95 percent and an overall percent coefficient of variation (% C.V.) of 26 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 2010, PDP laboratories quantitated a total of 40,460 process controls on 12,845 samples,

with an overall mean recovery of 98 percent and an overall % C.V. of 22 percent. Of these process controls, 71 (0.2%) 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. In order to properly benchmark performance, PDP laboratories participate in two international PT programs: AOAC and the Food Analysis Performance Assessment Scheme (FAPAS) PT program, administered by the Food and Environment Research Agency, Sand Hutton, York, UK. In 2010, PDP laboratories that routinely analyze fruit and vegetables via MRMs participated in one AOAC round for lettuce. Lettuce samples were spiked with 10 compounds. PDP fruit and vegetable laboratories participated in one FAPAS round of apples that contained five fortified analytes. For AOAC and FAPAS, laboratories were evaluated based on z-scores for reported compounds, as well as any reported false negatives or false positives. PDP laboratories typically obtained z-scores less than two, which is deemed satisfactory performance.

In addition, PDP laboratories participate in an internal PT program that is tailored to current PDP commodities and testing profiles, including commodities for products other than fruit and vegetables that are not typically available from an outside source. For this internal program, the CDFA QAU prepares and issues rounds designed by MPO. Spiking compounds are selected with specificity and levels for each commodity. Fortification levels of selected analytes are generally 1 to 10 times the program LOQ for that commodity/compound pair. 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 2010, PDP laboratories received:

- Four multiresidue fruit and vegetable PT rounds (asparagus, grapes, oranges, and sweet potatoes), each consisting of three test samples. Each round was fortified with a total of 12 compounds.

- One catfish set consisting of 2 samples that were fortified with a total of 17 compounds,

- One oat set consisting of 3 samples that were fortified with a total of 11 compounds,

- One formetanate round consisting of fortified apple, orange, and pear samples, and

- One macrocylic lactone round consisting of two lettuce samples fortified with a total of 8 compounds.

For water, 1 proficiency sample set was analyzed during 2010, with 11 compounds fortified in that round. A custom-designed test solution, based on testing profiles and detection limits, was used for spiking, rather than distribution of spiked samples, due to stability concerns. The vendor supplied each 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.

Onsite Reviews: MPO staff performs onsite 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 onsite 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 7.

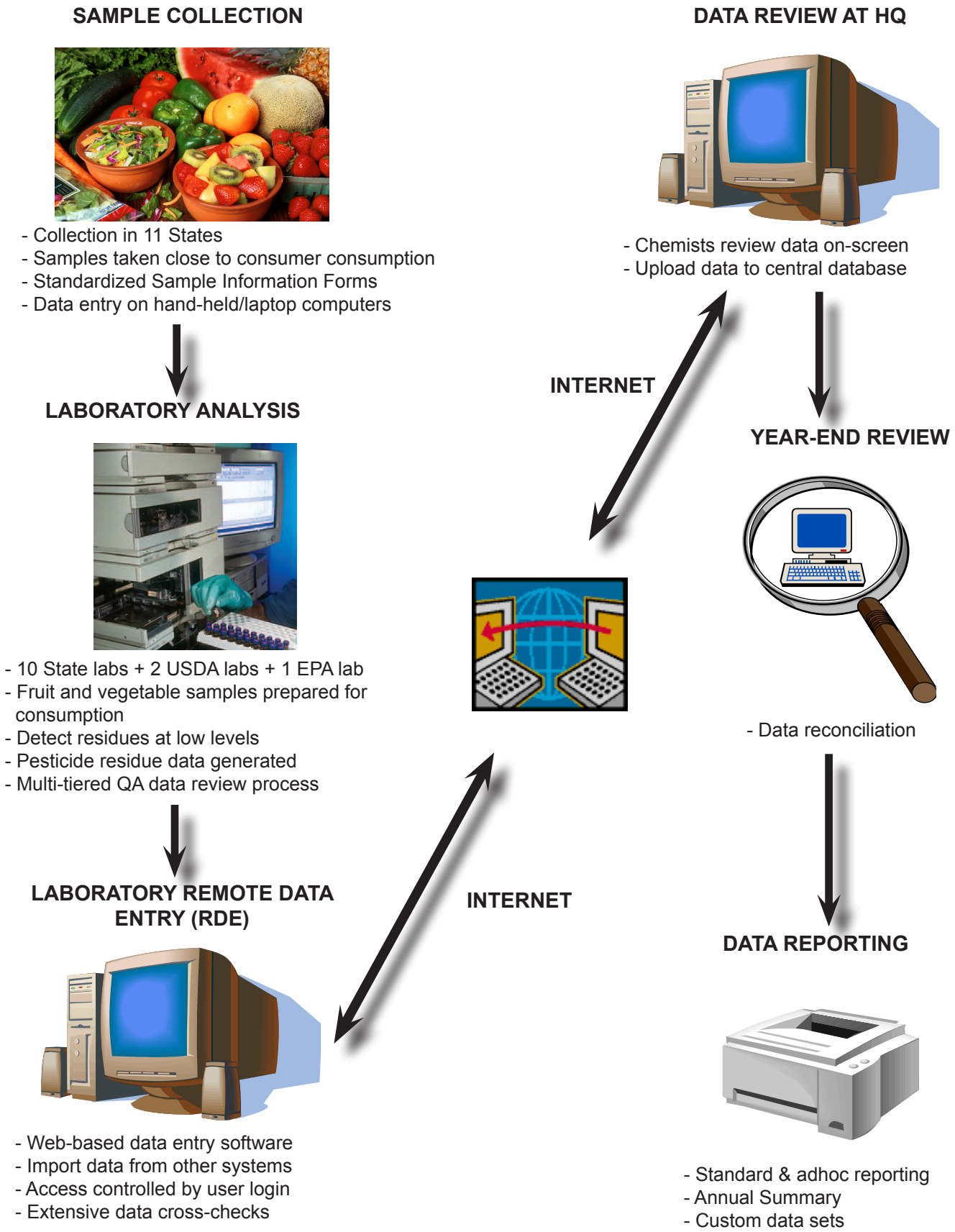


Figure 7. PDP Data Pathway. *An illustration of PDP data path from sample collection through laboratory analysis and reporting.*

♦ 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. 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 delimited 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

♦ Overview

In 2010, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, oats, eggs, catfish, groundwater, and treated and untreated drinking water. Of the 12,845 samples collected and analyzed, 10,974 were fresh and processed fruit and vegetable commodities, 299 were oat samples, 371 were egg samples, 384 were catfish samples, 250 were groundwater samples, and 567 were drinking water samples. Appendix B tabulates the distribution of residues in fruit and vegetables for the complete 2010 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. Appendices C, D, E, F and G provide the distribution of residues for oats, eggs, catfish, groundwater, and treated and untreated drinking water, respectively. Appendix H tabulates the results for environmental contaminants across all commodities. Environmental contaminants have been consolidated into a single appendix because they have no registered uses and are not applied to crops. These compounds are subject to FDA action levels, rather than tolerances. Because

environmental contaminants continue to persist in the environment, they are unavoidable and may be present in food commodities at generally low levels. All individual sample data can be downloaded from the PDP Website at http://www.ams.usda.gov/pdp or obtained by contacting MPO.

For fresh and processed fruit and vegetables, eggs, catfish, and oats, 73.8 percent of all samples were produced in the United States, 23.8 percent were imports, 1.4 percent were of mixed origin, and 1.0 percent were of unknown origin. Appendix I shows the distribution of sample origin by State or country. Of the domestic samples, approximately 35 percent (3,101 of 8,876) were grown, packed, and/or distributed in or from California. Groundwater and drinking water are excluded from Appendix I since the samples targeted 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). Groundwater samples are collected from private domestic wells and school/childcare facilities while treated and untreated drinking water samples are collected from community water treatment facilities. Appendix J includes a comparison of residues for selected commodities with a significant import component.

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.

♦ Baby Food

Baby food samples were tested in the laboratory as processed products – contents of individual containers within a sample were mixed until homogeneous, and then an analytical portion was removed to be tested by the laboratory's multi-residue method. Results for baby food commodities are shown in Appendices B, K, and M.

♦ 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 2010. 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 cabbage (94.5%), lettuce (98.4%), and sweet potatoes (99.1%) with only minor import (4.4%, 1.5%, and 0.4%, respectively) and unknown origins (1.1%, 0.1%, and 0.5%, respectively). Other fresh commodities, such as cucumbers, grapes, and sweet bell peppers, 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 grapes and sweet bell peppers can be found in Appendix J. 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 grape data in Appendix J illustrate that in 2010 fenhexamid, imidacloprid, iprodione, myclobutanil, quinoxyfen, and tebuconazole were detected more frequently in imported samples than in domestic samples. For example, fenhexamid was detected in 44.7 percent of the samples from Chile and 10.5 percent of the U.S. samples. Iprodione was detected in 25.1 percent of the Chilean samples and in 2.9 percent of the domestic samples. Methoxyfenozide, pyraclostrobin, and trifloxystrobin were detected more frequently in U.S. samples than in Chilean samples. Methoxyfenozide was detected in 29.7 percent of U.S. samples and 2.8 percent of Chilean samples. Pyraclostrobin was found in 59.8 percent of U.S. samples and 41.1 percent of Chilean samples while trifoxystrobin was detected in 43.7

percent of domestic samples and 21.3 percent of samples from Chile. Boscalid, cyprodinil, and pyrimethanil were detected with relatively equal frequency in both the U.S. and Chilean grapes.

For sweet bell peppers, the following residues were detected more often in imported samples: acetamiprid, boscalid, clothianidin, endosulfan I and sulfate, metalaxyl, myclobutanil, oxamyl oxime, cis and trans permethrin, prallethrin, and thiamethoxam. For example, boscalid was detected in 42.2 percent of Mexican peppers and in 2.6 percent of U.S. peppers. Endosulfan sulfate was detected in 43.4 percent of Mexican samples and in 4.7 percent of U.S. samples. Acephate, azoxystrobin, bifenthrin, imidacloprid, methamidophos, and pyraclostrobin were detected with relatively equal frequency in both the U.S. and Mexican sweet bell peppers.

All pesticides detected were registered in the U.S., however, the profiles of residue findings were markedly different in the U.S. 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.

♦ 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.

♦ Results Discussion

There are many pesticides registered for use on the same crop; however, not all crops are sprayed and not all available pesticides are used at the same time or location. Pesticide use is primarily dictated by local pest pressures. These differences are captured by PDP data which reflect actual residues present in food grown in various regions of the U.S. and overseas. Thus, in evaluating consumer exposure to pesticides through the diet, EPA uses all available information provided by registrants, PDP, and others to verify that tolerances meet the safety standards set by FQPA. The reporting of residues present at levels below the established tolerance serves to ensure and verify the safety of the Nation's food supply.

Food commodities with pesticides detected in at least 5 percent of samples tested are shown in Appendix K. The data shown include the range and mean of values detected and U.S. EPA tolerance references for each pair.

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 2010 is presented in Appendix L.

These data indicate that 41.0 percent of all samples tested, excluding groundwater and treated and untreated drinking water, contained no detectable pesticides, 18.5 percent contained 1 pesticide, and 40.5 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". Environmental contaminants, listed in Appendix H, have been excluded from this count of pesticides.

Fifteen pesticides were detected in one grape sample. 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. Unintentional spray drift in the field, planting of crops in fields previously treated with the pesticide, and/or transfer of residues of postharvest fungicides applied to other commodities stored in the same storage facilities could all contribute to residue detections.

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 or levels of pesticides in a single serving item of a commodity.

♦ Special Projects

Macrocyclic Lactones: The Colorado laboratory conducted testing on 743 lettuce homogenate samples for 9 compounds in the macrocyclic lactone class of pesticides, which require specialty analysis. These compounds were: avermectin, doramectin, emamectin, eprinomectin, ivermectin, milbemectin, moxidectin, spinetoram, and spinosad. Appendix B shows that of the nine compounds tested, two different residues were detected at levels below EPA-established tolerances. Spinetoram was detected in 2.2 percent of the samples while spinosad was detected in 7.1 percent of the samples analyzed.

Oats: The USDA GIPSA laboratory conducted testing on 299 oat samples. Appendix C shows that six different residues (including metabolites), representing six pesticides, were detected in the oat samples. The most frequently detected residue was parathion methyl oxygen analog which was detected in seven samples (2.3%). MGK-264 was detected in four samples (1.3%) and piperonyl butoxide was detected in three samples (1.0%). Malathion, methoprene, and phenothrin were each detected in one sample (0.3%). All residue detections were lower than the established tolerances for those compounds with established tolerances.

Eggs: The AMS NSL conducted testing for pesticide residues on 371 egg samples. Overall, six different residues (including metabolites), representing five pesticides, were detected in the egg samples. The most frequently detected residue was piperonyl butoxide which was detected in seven samples (1.9%). Fluvalinate was detected in three samples (0.8%) and 1-naphthol, a metabolite of carbaryl, was detected in two samples (0.5%). Carbaryl, tetrachlorvinphos, and trifloxystrobin were each detected in one sample (0.3%). All residue detections were lower than the established tolerances for those compounds with established tolerances.

Catfish: The AMS NSL conducted testing for pesticide residues on 384 catfish samples. Overall, 23 different residues (including metabolites), representing 22 pesticides, were detected in the catfish samples. The following residues were detected in more than 5 percent of the samples: bifenthrin (33.9%), chlorpyrifos (9.6%), endosulfan sulfate (7.8%), diuron (6.2%), and diphenylamine (5.2%).

Pesticides present in water as contaminants may be taken up by catfish, resulting in the detection of pesticides with no tolerance established. For these reasons, catfish residue results, along with results from groundwater and drinking water, are excluded when providing overall residue counts.

♦ Potable Groundwater

In 2010, 27 groundwater samples were collected from private domestic wells. Municipal water facilities that draw from groundwater sources provided 14 samples. School/childcare facilities provided 209 samples. Overall, PDP detected 24 different residues (including metabolites), representing 18 pesticides, in the groundwater samples. Most of the detections were for herbicides or their metabolites. The samples with detectable residues came from 63 different sites. Residue profiles are shown in Appendix F.

♦ Municipal Drinking Water

PDP analyzed 567 water samples (283 untreated samples and 284 finished samples) from community water systems. Appendix G shows the concentration of detected residues in treated and untreated water. Sixty-five different residues (including metabolites), representing 53 pesticides, were detected in the finished drinking water and 54 different residues (including metabolites), representing 43 pesticides, were detected in the untreated intake water. The majority of pesticides included in the PDP testing profiles were not detected; those compounds that were detected were primarily commonly used herbicides and their metabolites.

Water treatment technologies vary widely and may be based on the local water chemistry, targeted contaminants needing removal, and cost. In most cases, treated samples had fewer residues and lower concentrations than their untreated counterpart. In these cases, the effectiveness of water treatment in removing/reducing pesticide levels is seen. In a few cases, treated samples contained a residue that was not detected in the untreated sample or contained a residue at a higher concentration than the paired untreated sample. The data acquired to date indicate that in these cases the water treatment process removed matrix interferences, allowing for a more efficient extraction or more sensitive measurement in the treated water; this is not the result of a pesticide being added during the treatment process, nor does it indicate pesticide use in the treatment facility. Depending on the treatment process employed, individual pesticides are entirely, partially, or not removed during the treatment process.

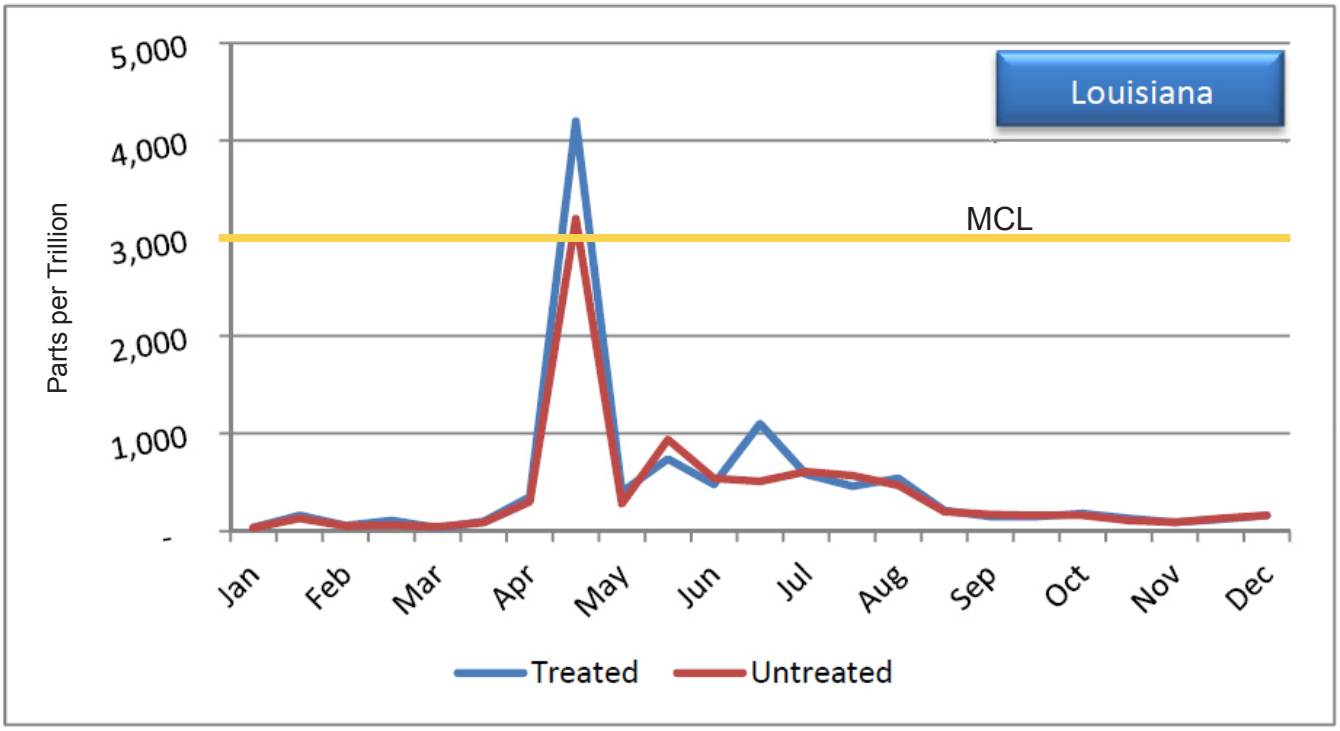
Appendix G also lists the MCL and/or Health Advisory (HA) values. In 2010, there were two sites where detected residues exceeded an MCL. Both of these exceedances were due to atrazine [3,686 parts per trillion (ppt) and 4,200 ppt]. The MCL for atrazine is 3,000 ppt; however, this is based on an annual average and is set conservatively for long-term exposure. Drinking water utilities average the results for samples collected over each quarter for the year. If the annual average exceeds 3,000 ppt, a regulatory action is triggered. For shorter intervals a value of 37,500 ppt is used for a 90-day average. For short-term exposure (i.e., single-event, one day occurrences), a value of 298,000 ppt is used (www.epa.gov/opp00001/reregistration/atrazine/atrazine_update.htm). Figure 8 shows that for the 2 sites where PDP detected concentrations above 3,000 ppt, these elevated concentrations were short-term fluxes and that the annual averages (the average of PDP measured data) were only 308 and 458 ppt, neither of which value would trigger regulatory action. In Figure 8, it is interesting to note that for the two events where there were high concentration of atrazine detected, the metabolite concentrations were only slightly elevated, indicating that these high atrazine concentrations were from large rain events; in these cases, a few days after application. Data such as the PDP data are useful to utilities in order to know the timing and duration of pesticide fluxes so that they can determine whether additional treatment is needed to remove these compounds. Treatment means extra cost. Minimizing the duration of additional or unnecessary treatment keeps consumer costs to a minimum.

The data in Figure 8 are from surface water sources. Pesticides in these water bodies typically result from rain events that wash pesticides into rivers, streams, lakes and reservoirs, allowing comparatively little time for degradation. In groundwater, the concentrations of the metabolites are often much higher than the parent compounds as movement of groundwater is typically much slower than surface water and there has been more time for degradation.

Besides the above mentioned atrazine findings, none of the other detections in the finished water samples exceeded established EPA MCL or HA levels; however, many of the compounds in the PDP testing profiles do not have established regulatory standards. The EPA MCL applies only to treated drinking water, not the ambient, untreated water. Therefore, 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 2010, no detections, in either treated or untreated water, exceeded established FAO levels. Additional information regarding EPA drinking water standards is available at: http://www.epa.gov/safewater/ standards/setting.html.

♦ 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



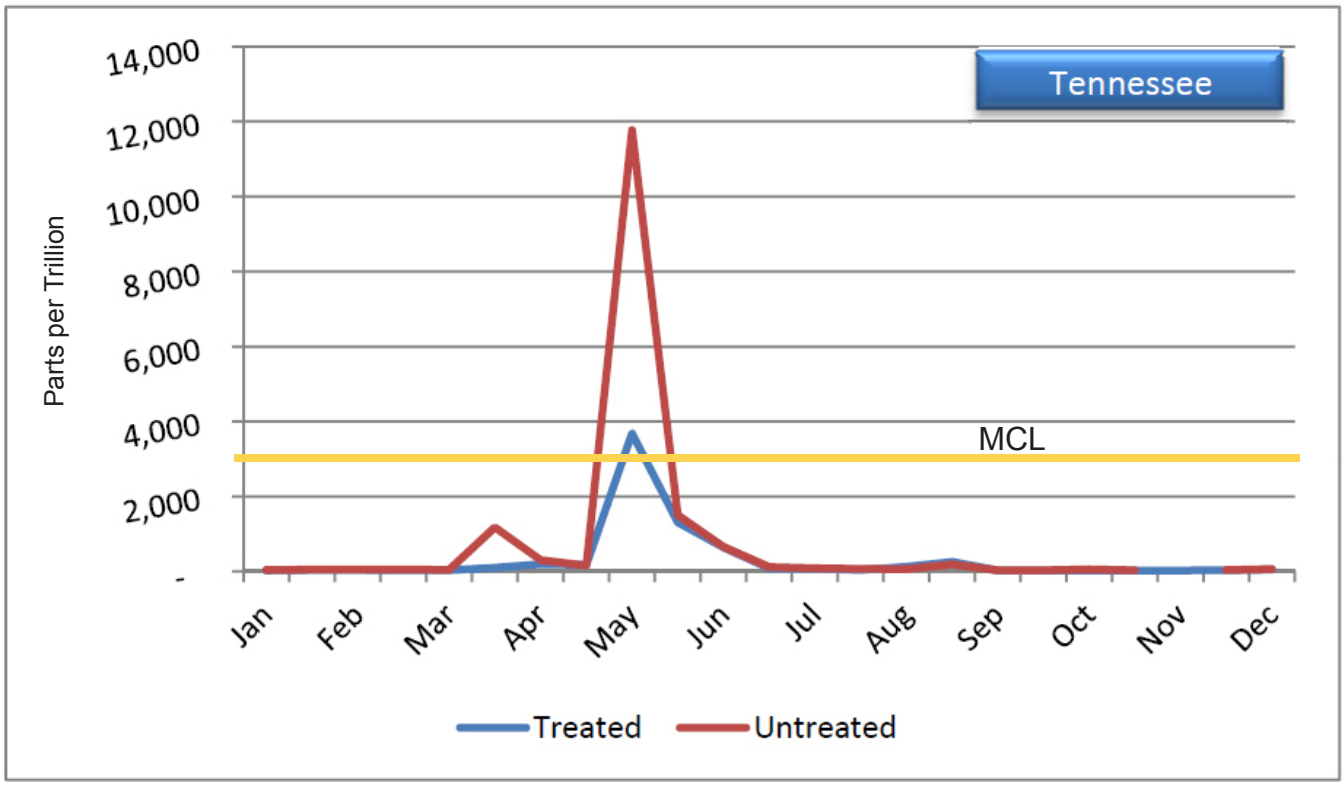


Figure 8. Atrazine Concentrations in Treated and Untreated Drinking Water. *These graphs show atrazine values measure bi-monthly in 2010 for two sites, one each in Louisiana and Tennessee. Each site exhibited a single flux during April/May which resulted in the exceedence of the atrazine MCL of 3,000 ppt.*

data are also used to facilitate international trade. Residue results for environmental contaminants may be found in Appendix H.

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, low level residues of DDT and its DDD and DDE metabolites were detected in some commodities tested. DDE p,p' was detected mainly in catfish (65.9%), cilantro (24.0%), and frozen spinach (11.0%). DDD p,p' was detected in catfish (27.1%), DDT o,p' was detected in cilantro (25.4%), and DDD o,p' was detected in cilantro (11.0%). Except for cilantro, all residues detected were lower than established FDA Action Levels (ALs) – no ALs have been established for cilantro for any of the environmental contaminants screened. No DDT or any of its metabolites were detected in groundwater or drinking water samples (treated or untreated).

Other Extraneous Pesticides: PDP screened samples for other environmental contaminants including: aldrin; BHC; chlordane (cis/trans) and its metabolite oxychlordane; dieldrin; endrin; heptachlor and its epoxide metabolite; hexachlorobenzene (HCB), and nonachlor (cis/trans). 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 BHC, chlordane, dieldrin, endrin, heptachlor epoxide, HCB, and nonachlor were detected in some of the tested commodities. For example, chlordane (cis) was detected in 8.5 percent of cilantro samples and chlordane (trans) was detected in 7.6 percent of the cilantro samples, while 5.6 percent of the cucumber samples had detections of dieldrin. 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, where applicable – no action levels have been established for cilantro for any of the environmental contaminants screened. None of the tested groundwater or drinking water samples (treated or untreated) had residues of aldrin, chlordane or its metabolite oxychlordane, dieldrin, endrin, or heptachlor epoxide.

♦ 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 assesses PDP apparent violation data for appropriateness for follow-up under its regulatory pesticide program. Due to the time period required for completion of PDP analyses and data reporting, FDA follow-up will usually be at a subsequent harvest or commodity availability period. In instances where a PDP finding is extraordinary and may pose a safety risk, FDA is immediately notified.

Residues exceeding the established tolerance are noted with an "X" in Appendices B, C, D, and E.

Similarly, residues for which a tolerance is not established are noted with a "V." The "X" and "V" annotations are followed by a number indicating the number of samples reported to FDA. The EPA tolerances cited in this summary and Appendices apply to 2010 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 pesticide violations in Appendix M are combined residues of parent and any isomers and/or metabolites to count the total number of samples with tolerance violations.

Excluding water and catfish, a total of 559 samples with 828 pesticides were reported to the FDA as Presumptive Tolerance Violations. Pesticides exceeding the tolerance were detected in 29 (0.25%) of the 11,644 samples tested. The samples containing pesticides that exceed established tolerances include: one apple sample, two asparagus samples, two cilantro samples, three cucumber samples, two grape samples, one pear sample, four frozen spinach samples, four samples of sweet bell peppers, seven sweet potato samples, and three watermelon samples. Of those 29 samples, 17 were reported as imported produce. Twenty-eight samples contained one pesticide exceeding the established tolerance and one sample contained two pesticides exceeding the established tolerances.

Pesticides with no established tolerance were found in 534 (4.6%) of the 11,644 samples tested, which included 525 fresh fruit and vegetable samples, 3 egg samples, and 6 processed fruit/vegetable samples. The 6 processed fruit/vegetable samples were baby food green beans and baby food pears. There were 357 samples with 1 pesticide each, 112 samples with 2 pesticides each, 47 samples with 3 pesticides each, 14 samples with 4 pesticides each, and 4 samples with 5 pesticides each. Four samples with pesticides having no established tolerance also contained one pesticide each that exceeded an established tolerance. In most cases, these pesticides with no established tolerance were detected at very low levels. Some pesticide residues may have resulted from unintentional spray drift in the field, planting of crops in fields previously treated with the pesticide, or transfer of pesticide residues of postharvest fungicides applied to other commodities stored in the same storage facilities. The pesticide levels and commodities are listed in Appendix M.

Appendix A

Commodity History

Appendix A identifies commodities sampled by the Pesticide Data Program (PDP) through December 2011. Updates to this list are posted on the PDP Web site at www.ams.usda.gov/pdp.

COMMODITY HISTORY AS OF DECEMBER 2011

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	Dec-10
Apples (T-1)	Jan-03	Dec-03
Asparagus	Jan-02	Jun-03
Asparagus	Jul-08	Jun-10
Bananas	Sep-91	Sep-95
Bananas	Jan-01	Dec-02
Bananas	Jan-06	Dec-07
Bananas (TSP)	Jul-03	Dec-03
Blueberries (cultivated) [2]	Jan-07	Dec-08
Broccoli	Oct-92	Dec-94
Broccoli	Jan-01	Dec-02
Broccoli	Oct-06	Sep-08
Cabbage	Jan-10	Dec-11
Cantaloupe	Jul-98	Jun-00
Cantaloupe	Oct-03	Sep-05
Cantaloupe	Jan-10	Mar-10
Cantaloupe	Oct-10	Ongoing
Carrots [1]	Oct-92	Sep-96
Carrots	Oct-00	Sep-02
Carrots	Jan-06	Dec-07
Cauliflower	Oct-04	Sep-06
Cauliflower	Oct-11	Ongoing
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	Sep-10
Cranberries	Oct-06	Dec-06
Cucumbers	Jan-99	Dec-00
Cucumbers	Oct-02	Sep-04
Cucumbers	Jan-09	Dec-10
Eggplant	Jan-05	Dec-06

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	Dec-10
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
Hot Peppers	Oct-10	Sep-11
Lettuce	May-91	Dec-94
Lettuce	Oct-99	Sep-01
Lettuce	Jan-04	Dec-05
Lettuce	Jan-10	Dec-11
Lettuce, Organic	Jan-09	Dec-09
Mangoes	Apr-10	Sep-10
Mushrooms	Oct-01	Sep-03
Mushrooms	Oct-11	Ongoing
Nectarines [4]	Jul-00	Sep-01
Nectarines	Jan-07	Dec-08
Onions	Jan-02	Dec-03
Onions	Oct-11	Ongoing
Oranges [1]	Aug-91	Dec-96
Oranges	Jan-00	Dec-01
Oranges	Jan-04	Dec-05
Oranges	Jan-09	Dec-10
Papaya	Jul-11	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	Dec-10
Pineapples	Jul-00	Jun-02

Commodity	Start Date	End Date
Plums [6]	Jan-05	Dec-06
Plums	Oct-11	Ongoing
Potatoes	May-91	Dec-95
Potatoes (S-4)	Dec-96	Dec-97
Potatoes	Jul-00	Jun-02
Potatoes	Jan-08	Dec-09
Snap Peas	Jan-11	Ongoing
Spinach [1]	Jan-95	Sep-97
Spinach	Jul-02	Dec-03
Spinach [7]	Jan-06	Sep-06
Spinach	Jan-08	Dec-09
Strawberries [2]	Jan-98	Sep-00
Strawberries	Jan-04	Dec-05
Strawberries	Jan-08	Dec-09
Summer Squash	Oct-06	Sep-08
Sweet Corn (on-the-cob)	Oct-08	Sep-10
Sweet Bell Peppers	Jan-99	Dec-00
Sweet Bell Peppers	Oct-02	Sep-04
Sweet Bell Peppers	Jan-10	Ongoing
Sweet Potatoes [1]	Jan-96	Jun-98
Sweet Potatoes	Jan-03	Dec-04
Sweet Potatoes	Oct-08	Sep-10
Tangerines	Jan-11	Ongoing
Tomatoes [1]	Jul-96	Jun-99
Tomatoes	Jan-03	Dec-04
Tomatoes	Jan-07	Dec-08
Tomatoes, Cherry/Grape	Jan-11	Ongoing
Watermelon [8]	Oct-05	Sep-06
Watermelon	Apr-10	Sep-10
Winter Squash [2]	Jan-97	Jun-99
Winter Squash	Jul-04	Jun-06
Winter Squash	Oct-11	Ongoing

[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
Baby Food, Green Beans	Oct-10	Sep-11
Baby Food, Pears	Oct-10	Sep-11
Baby Food, Sweet Potatoes	Oct-10	Sep-11
Beans, Canned (4 varieties)	Oct-08	Sep-10
Beets, Canned	Jan-11	Dec-11
Blueberries (cultivated), 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
Orange Juice	Jan-97	Dec-98
Orange Juice	Oct-04	Sep-06
Orange Juice	Oct-10	Sep-11
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

Commodity	Start Date	End Date
Spinach, Canned/Frozen	Jul-10	Jun-11
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	Sep-10
Tomato Paste, Canned	Jan-01	Jun-01
Tomato Paste, Canned	Jan-09	Dec-09
Tomatoes, Canned	Jul-99	Jun-00
Winter Squash, Frozen [2]	Jan-97	Jun-99

[1] Excludes sampling hiatus September - November 1996
[2] Frozen collected when fresh unavailable
[3] Excludes sampling hiatus January 1999
[4] Canned samples collected in first year and frozen samples in second year of testing.
[5] Dried plums (prunes) were collected when fresh plums were not available.
(T-1) Triazole parent and metabolite compounds only.
(TSP) Triazole Sampling Project. Samples sent to contract laboratory.

Grains

Commodity	Start Date	End Date
Barley	Oct-01	Sep-03
Corn	Oct-06	Sep-08
Oats	Jul-99	Apr-00
Oats	Jan-10	May-10
Rice	Oct-00	Sep-02
Rice[1]	Oct-08	Sep-09
Soybeans	Sep-96	Feb-98
Soybeans	Oct-03	Sep-05
Soybeans	Sep-10	Apr-11
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
Milk	Jan-11	Dec-11

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	May-09
Pork	Gilt, Barrow	Jan-05	Jun-05
Fish[4]	Catfish	Apr-08	Jun-10

Other

Commodity	Start Date	End Date
Eggs (TSP)	Jul-03	Dec-03
Eggs	Jul-10	Jun-11
Honey	Oct-07	Sep-08

Drinking Water

States	Start Date	End Date
Finished Water Only (27 sites)		
California, Colorado, Kansas, New York, Texas	Mar-01	Dec-03
Raw Intake and Finished Water (57 sites)	Jan-04	Ongoing
Alabama, Arizona, California, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Louisiana, Maryland, Michigan, Minnesota, Missouri, Montana, New Jersey, New York, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, Washington State, and Washington, DC		
Bottled Water		
10 Participating States	Jan-05	Dec-06
Groundwater		
715 Private Wells in 41 States plus Washington, DC	Jan-07	Ongoing
14 Municipal Water Facilities in 11 States	Mar-10	Ongoing

[1] Includes hiatus May-July 2009

[2] Excludes sampling hiatus September - November 1996

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

[4] Excludes sampling hiatus April-June 2009

(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 2010 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 2010, 10,974 fruit and vegetable samples were analyzed, of which 9,211 were fresh product and 1,763 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.

Results for environmental contaminants across all commodities, including fruit and vegetables, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H).

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
Acephate (insecticide)						
Apples	744	0			0.002 ^	0.02
Baby Food - Green Beans	192	15	7.8	0.013 - 0.11	0.002 ^	3.0
Baby Food - Pears	191	0			0.002 ^	0.02
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.02
Black Beans, Canned	367	0			0.030 ^	3.0
Cabbage	743	1	0.1	0.003 ^	0.002 - 0.020	0.02
Cantaloupe	371	1	0.3	0.023 ^	0.010 ^	0.02
Cucumbers (X-1)	744	5	0.7	0.003 - 0.043	0.002 ^	0.02
Garbanzo Beans, Canned	186	0			0.030 ^	3.0
Grapes	745	0			0.002 - 0.034	0.02
Hot Peppers	186	16	8.6	0.004 - 3.1	0.002 - 0.040	4.0
Lettuce	743	3	0.4	0.032 - 0.042	0.030 ^	10
Mangoes	372	0			0.010 ^	0.02
Orange Juice	191	0			0.030 ^	0.02
Oranges	744	0			0.010 ^	0.02
Pears	743	0			0.004 ^	0.02
Spinach, Canned	181	0			0.032 ^	0.02
Spinach, Frozen (X-2)	191	2	1.0	0.087 - 1.0	0.032 ^	0.02
Sweet Bell Peppers	744	99	13.3	0.034 - 1.5	0.034 ^	4.0
Sweet Corn, Fresh	261	1	0.4	0.004 ^	0.002 ^	0.02
Sweet Corn, Frozen	14	0			0.002 ^	0.02
Sweet Potatoes	553	1	0.2	0.004 ^	0.002 ^	0.02
Watermelon (X-3)	371	3	0.8	0.16 - 0.27	0.002 ^	0.02
TOTAL	**9,768**	**147**				
Acetamiprid (insecticide)						
Apples	744	214	28.8	0.002 - 0.20	0.001 - 0.003	1.0
Baby Food - Green Beans	192	0			0.002 ^	0.60
Baby Food - Pears	191	40	20.9	0.002 - 0.031	0.001 ^	1.0
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.01
Black Beans, Canned	367	0			0.003 ^	0.40
Cabbage	743	5	0.7	0.002 - 0.048	0.001 - 0.003	1.20
Cantaloupe	371	0			0.010 ^	0.50
Cilantro (V-1)	555	1	0.2	0.006 ^	0.001 - 0.003	NT
Cucumbers	744	40	5.4	0.002 - 0.089	0.001 - 0.002	0.50
Garbanzo Beans, Canned	186	0			0.003 ^	0.40
Grapes	745	10	1.3	0.001 - 0.097	0.001 - 0.002	0.35
Hot Peppers	186	5	2.7	0.003 - 0.016	0.002 - 0.16	0.20
Lettuce	743	26	3.5	0.003 - 0.15	0.003 ^	3.00
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	0.50
Oranges	744	0			0.010 ^	0.50
Pears	743	118	15.9	0.012 - 0.30	0.007 ^	1.0
Spinach, Canned	181	0			0.016 ^	3.00
Spinach, Frozen	191	2	1.0	0.060 - 0.13	0.016 ^	3.00
Sweet Bell Peppers	744	91	12.2	0.001 - 0.18	0.001 ^	0.20
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	0.01
Watermelon	371	0			0.002 ^	0.50
TOTAL	**10,323**	**552**				
Acetochlor (herbicide)						
Sweet Corn, Fresh	220	0			0.020 ^	0.05
Sweet Corn, Frozen	59	0			0.020 ^	0.05
TOTAL	**279**	**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
Acibenzolar S methyl (plant activator)						
Apples	744	0			0.007 ^	NT
Baby Food - Pears	191	0			0.007 ^	NT
Cabbage	370	0			0.071 ^	1.0
Cilantro	540	0			0.007 - 0.022	NT
Cucumbers	372	0			0.007 ^	2.0
Hot Peppers	93	0			0.016 ^	1.0
Lettuce	743	0			0.020 ^	0.25
Orange Juice	191	0			0.020 ^	NT
Spinach, Canned	181	0			0.016 ^	1.0
Spinach, Frozen	191	0			0.016 ^	1.0
TOTAL	**3,616**	**0**				
Alachlor (herbicide)						
Baby Food - Pears	130	0			0.003 ^	NT
Sweet Corn, Fresh	220	0			0.020 ^	0.05
Sweet Corn, Frozen	59	0			0.020 ^	0.05
TOTAL	**409**	**0**				
Aldicarb (insecticide)						
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.1
Black Beans, Canned	367	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cucumbers	372	0			0.006 ^	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	0			0.006 - 0.020	NT
Hot Peppers	93	0			0.006 ^	NT
Lettuce	743	0			0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	0.3
Oranges	744	0			0.010 ^	0.3
Sweet Bell Peppers	744	0			0.020 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	0.1
Watermelon	371	0			0.006 ^	NT
TOTAL	**6,701**	**0**				
Aldicarb sulfone (metabolite of Aldicarb)						
Apples	744	0			0.003 - 0.020	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.003 - 0.010	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.1
Black Beans, Canned	367	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.003 - 0.020	NT
Cucumbers	372	0			0.006 ^	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes (V-1)	745	1	0.1	0.12 ^	0.005 - 0.006	NT
Hot Peppers	93	0			0.006 ^	NT
Lettuce	743	0			0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	0.3
Oranges	744	0			0.010 ^	0.3
Sweet Bell Peppers	744	0			0.005 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	1	0.2	0.010 ^	0.006 ^	0.1
Watermelon	371	0			0.006 ^	NT
TOTAL	**8,000**	**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
Aldicarb sulfoxide (metabolite of Aldicarb)						
Apples	744	0			0.002 - 0.006	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.002 - 0.006	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.1
Black Beans, Canned	367	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes (V-1)	745	1	0.1	0.010 ^	0.006 - 0.016	NT
Hot Peppers	93	0			0.006 ^	NT
Lettuce	743	0			0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	1	0.5	0.003 ^	0.003 ^	0.3
Oranges	744	1	0.1	0.013 ^	0.010 ^	0.3
Sweet Bell Peppers	744	0			0.016 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	3	0.5	0.010 - 0.072	0.006 ^	0.1
Watermelon	371	0			0.006 ^	NT
TOTAL	**8,372**	**6**				
Allethrin (insecticide)						
Asparagus	372	0			0.030 ^	NT
Baby Food - Green Beans	192	0			0.050 ^	NT
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Black Beans, Canned	367	0			0.020 - 0.10	NT
Cabbage	743	0			0.25 ^	NT
Cucumbers	372	0			0.015 ^	NT
Garbanzo Beans, Canned	186	0			0.020 ^	NT
Grapes	745	0			0.015 - 0.030	NT
Hot Peppers	93	0			0.070 ^	NT
Lettuce	743	0			0.020 - 0.10	NT
Orange Juice	191	0			0.10 ^	NT
Pears	743	0			0.15 ^	NT
Spinach, Canned	181	0			0.010 ^	NT
Spinach, Frozen	191	0			0.010 ^	NT
Sweet Bell Peppers (V-1)	744	1	0.1	0.015 ^	0.015 ^	NT
Sweet Corn, Fresh	481	0			0.015 - 0.030	NT
Sweet Corn, Frozen	73	0			0.015 - 0.030	NT
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.050 ^	NT
TOTAL	**7,532**	**1**				
Ametryn (herbicide)						
Baby Food - Green Beans	192	0			0.004 ^	NT
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cucumbers	372	0			0.015 ^	NT
Grapes	373	0			0.015 ^	NT
Hot Peppers	93	0			0.004 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	480	0			0.002 - 0.015	0.25
Sweet Corn, Frozen	73	0			0.002 - 0.015	0.25
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.004 ^	NT
TOTAL	**4,185**	**0**				
Amitraz (insecticide)						
Pears	743	0			0.013 ^	3.0
TOTAL	**743**	**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
Atrazine (herbicide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cantaloupe	350	0			0.025 ^	NT
Cucumbers (V-2)	744	2	0.3	0.003 ^	0.002 - 0.003	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Lettuce	743	1	0.1	0.007 ^	0.002 ^	0.25
Orange Juice	191	0			0.002 ^	NT
Spinach, Canned	181	0			0.010 ^	0.25
Spinach, Frozen	191	1	0.5	0.027 ^	0.010 ^	0.25
Sweet Corn, Fresh	480	0			0.003 - 0.016	0.20
Sweet Corn, Frozen	73	0			0.003 - 0.016	0.20
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon (V-2)	371	2	0.5	0.005 ^	0.003 ^	NT
TOTAL	**5,661**	**6**				
Avermectin (insecticide) (Acaricide)						
Lettuce	743	0			0.005 - 0.010	0.10
TOTAL	**743**	**0**				
Azinphos (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Azinphos methyl (insecticide)						
Apples	744	69	9.3	0.020 - 0.16	0.012 ^	1.5
Asparagus	372	0			0.020 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.012 ^	1.5
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cabbage	743	0			0.003 - 0.009	NT
Cantaloupe	160	0			0.19 ^	NT
Cilantro	555	0			0.012 ^	NT
Cucumbers	744	0			0.003 - 0.012	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes (V-3)	745	3	0.4	0.004 - 0.005	0.002 - 0.006	NT
Hot Peppers (V-1)	186	1	0.5	0.015 ^	0.003 - 0.20	NT
Lettuce	743	0			0.003 ^	NT
Orange Juice	191	0			0.003 ^	NT
Pears	743	57	7.7	0.015 - 0.26	0.009 ^	1.5
Spinach, Canned	181	0			0.064 ^	NT
Spinach, Frozen	191	0			0.064 ^	NT
Sweet Bell Peppers (V-1)	744	1	0.1	0.024 ^	0.002 ^	NT
Sweet Corn, Fresh	480	0			0.003 - 0.040	NT
Sweet Corn, Frozen	73	0			0.003 - 0.040	NT
Sweet Potatoes	553	0			0.003 - 0.004	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**9,646**	**131**				

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	372	0			0.010 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Black Beans, Canned	367	0			0.010 ^	NT
Cabbage	743	0			0.002 - 0.006	NT
Cucumbers	372	0			0.006 ^	NT
Garbanzo Beans, Canned	186	0			0.010 ^	NT
Grapes	745	0			0.006 - 0.026	NT
Hot Peppers	186	0			0.006 - 0.040	NT
Lettuce	743	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	NT
Pears	743	0			0.046 ^	1.5
Spinach, Canned	181	0			0.010 ^	NT
Spinach, Frozen	191	0			0.010 ^	NT
Sweet Bell Peppers	744	0			0.026 ^	NT
Sweet Corn, Fresh	480	0			0.006 - 0.010	NT
Sweet Corn, Frozen	73	0			0.006 - 0.010	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**7,624**	**0**				
Azoxystrobin (fungicide)						
Apples	744	0			0.001 - 0.003	NT
Asparagus	372	0			0.030 ^	0.04
Baby Food - Green Beans	192	0			0.002 ^	3.0
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.03
Black Beans, Canned	367	0			0.003 ^	0.5
Cabbage	743	3	0.4	0.001 - 0.005	0.001 - 0.003	3.0
Cantaloupe	371	4	1.1	0.002 - 0.003	0.002 ^	0.3
Cilantro	555	88	15.9	0.002 - 7.0	0.001 - 0.006	50
Cucumbers	744	76	10.2	0.002 - 0.051	0.001 - 0.002	0.3
Garbanzo Beans, Canned	186	0			0.003 ^	0.5
Grapes	745	35	4.7	0.003 - 0.088	0.002 - 0.003	1.0
Hot Peppers	186	14	7.5	0.002 - 0.095	0.002 ^	2.0
Lettuce	743	10	1.3	0.003 - 0.32	0.003 ^	30.0
Mangoes	372	12	3.2	0.003 - 1.1	0.002 ^	2.0
Orange Juice	191	0			0.003 ^	10.0
Oranges	744	5	0.7	0.003 - 0.025	0.002 ^	10.0
Spinach, Canned	181	29	16.0	0.075 - 1.4	0.070 ^	30.0
Spinach, Frozen	191	26	13.6	0.071 - 5.4	0.070 ^	30.0
Sweet Bell Peppers	744	99	13.3	0.003 - 0.090	0.003 ^	2.0
Sweet Corn, Fresh	481	0			0.002 - 0.030	0.05
Sweet Corn, Frozen	73	0			0.002 - 0.030	0.05
Sweet Potatoes	553	0			0.002 ^	0.03
Watermelon	371	1	0.3	0.010 ^	0.002 ^	0.3
TOTAL	**10,231**	**402**				
Bendiocarb (insecticide)						
Apples	744	0			0.040 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.040 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cantaloupe	371	0			0.005 ^	NT
Cucumbers	744	0			0.003 - 0.040	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	0			0.003 - 0.004	NT
Hot Peppers	93	0			0.003 ^	NT
Lettuce	743	0			0.003 ^	NT
Mangoes	372	0			0.005 ^	NT
Orange Juice	191	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
Oranges	744	0			0.005 ^	NT
Sweet Bell Peppers	744	0			0.004 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**7,817**	**0**				
Benfluralin (herbicide)						
Lettuce	743	0			0.010 ^	0.05
Orange Juice	191	0			0.010 ^	NT
TOTAL	**934**	**0**				
Benomyl (fungicide)						
Sweet Corn, Fresh	219	0			0.016 ^	0.2
Sweet Corn, Frozen	59	0			0.016 ^	0.2
TOTAL	**278**	**0**				
Benoxacor (herbicide safener)						
Apples	744	0			0.002 - 0.008	NT
Baby Food - Green Beans	192	0			0.006 ^	0.01
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.01
Black Beans, Canned	367	0			0.010 ^	0.01
Cabbage	743	0			0.025 ^	0.01
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.010 ^	0.01
Grapes	745	0			0.006 ^	NT
Hot Peppers	186	0			0.006 - 0.040	0.01
Lettuce	743	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	NT
Spinach, Canned	181	0			0.020 ^	0.01
Spinach, Frozen	191	0			0.020 ^	0.01
Sweet Bell Peppers	713	0			0.001 - 0.002	0.01
Sweet Corn, Fresh	481	0			0.006 - 0.020	0.01
Sweet Corn, Frozen	73	0			0.006 - 0.020	0.01
Sweet Potatoes	553	0			0.006 ^	0.01
Watermelon	371	0			0.006 ^	NT
TOTAL	**8,341**	**0**				
Bensulide (herbicide)						
Hot Peppers	93	0			0.002 ^	0.10
Lettuce	743	5	0.7	0.004 - 0.014	0.004 ^	0.15
Orange Juice	191	0			0.004 ^	NT
Spinach, Canned	181	0			0.003 ^	0.15
Spinach, Frozen	191	2	1.0	0.003 - 0.005	0.003 ^	0.15
TOTAL	**1,399**	**7**				
Bensulide oxygen analog (insecticide metabolite)						
Lettuce	743	40	5.4	0.002 - 0.12	0.002 ^	0.15
Orange Juice	191	0			0.002 ^	NT
TOTAL	**934**	**40**				
Bentazon (herbicide)						
Baby Food - Pears	191	0			0.001 - 0.003	NT
Grapes	372	0			0.014 ^	NT
Sweet Bell Peppers	744	0			0.014 ^	NT
TOTAL	**1,307**	**0**				
Benthiavalicarb isopropyl (fungicide)						
Grapes	372	0			0.001 ^	0.25
Sweet Bell Peppers	744	0			0.001 ^	NT
TOTAL	**1,116**	**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
Bifenazate (acaricide)						
Baby Food - Green Beans	192	0			0.003 ^	6.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.10
Cucumbers	372	1	0.3	0.005 ^	0.003 ^	0.75
Grapes	745	12	1.6	0.005 - 0.11	0.003 - 0.017	0.75
Hot Peppers	93	0			0.003 ^	2.0
Sweet Bell Peppers	744	0			0.017 ^	2.0
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	0.10
Watermelon	371	0			0.003 ^	0.75
TOTAL	**3,536**	**13**				
Bifenthrin (insecticide)						
Apples	744	0			0.003 - 0.010	0.05
Asparagus	372	0			0.020 ^	0.05
Baby Food - Green Beans	192	9	4.7	0.015 - 0.041	0.009 ^	0.6
Baby Food - Pears	191	0			0.003 ^	0.5
Baby Food - Sweet Potatoes	191	0			0.012 ^	0.05
Black Beans, Canned	367	0			0.005 ^	0.05
Cabbage	743	1	0.1	0.010 ^	0.006 ^	4.0
Cantaloupe	371	0			0.038 ^	0.4
Cilantro	555	5	0.9	0.017 - 0.26	0.010 ^	6.0
Cucumbers	744	67	9.0	0.005 - 0.068	0.003 - 0.012	0.4
Garbanzo Beans, Canned	186	0			0.005 - 0.008	0.05
Grapes	745	10	1.3	0.005 - 0.021	0.005 - 0.012	0.2
Hot Peppers	186	13	7.0	0.015 - 0.10	0.009 - 0.040	0.5
Lettuce	712	3	0.4	0.006 - 0.10	0.005 ^	3.0
Mangoes	371	0			0.038 ^	0.05
Orange Juice	191	0			0.005 ^	0.05
Oranges	744	0			0.038 ^	0.05
Pears	743	1	0.1	0.062 ^	0.037 ^	0.5
Spinach, Canned	181	0			0.020 ^	0.2
Spinach, Frozen	191	4	2.1	0.023 - 0.27	0.020 ^	0.2
Sweet Bell Peppers	744	132	17.7	0.001 - 0.17	0.001 ^	0.5
Sweet Corn, Fresh	481	0			0.012 - 0.020	0.05
Sweet Corn, Frozen	73	0			0.012 - 0.020	0.05
Sweet Potatoes	553	0			0.012 ^	0.05
Watermelon	371	1	0.3	0.015 ^	0.009 ^	0.4
TOTAL	**10,942**	**246**				
Bitertanol (fungicide)						
Cantaloupe	371	0			0.010 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
TOTAL	**1,487**	**0**				
Boscalid (fungicide)						
Apples	730	92	12.6	0.010 - 0.32	0.006 ^	3.0
Baby Food - Green Beans	192	83	43.2	0.005 - 0.029	0.003 ^	1.6
Baby Food - Pears	157	0			0.006 - 0.040	3.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.05
Black Beans, Canned	367	6	1.6	0.003 - 0.007	0.003 ^	0.6
Cabbage	370	0			0.040 ^	3.0
Cantaloupe	371	0			0.010 ^	1.6
Cilantro (V-64)	555	64	11.5	0.010 - 0.14	0.006 ^	NT
Cucumbers	744	78	10.5	0.005 - 0.087	0.003 - 0.040	0.5
Garbanzo Beans, Canned	186	0			0.003 ^	0.6
Grapes	745	355	47.7	0.005 - 1.6	0.003 - 0.020	3.5
Hot Peppers	186	7	3.8	0.005 - 0.042	0.003 - 0.004	1.2
Lettuce	720	118	16.4	0.003 - 0.58	0.003 - 0.006	11.0
Mangoes	372	0			0.010 ^	1.5
Orange Juice	164	0			0.003 ^	1.6

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
Oranges	744	0			0.010 ^	1.6
Pears	743	23	3.1	0.042 - 0.57	0.025 ^	3.0
Spinach, Canned	181	1	0.6	0.025 ^	0.020 ^	60
Spinach, Frozen	191	1	0.5	0.024 ^	0.020 ^	60
Sweet Bell Peppers	744	127	17.1	0.002 - 0.27	0.002 - 0.010	1.2
Sweet Corn, Fresh	261	0			0.003 ^	0.20
Sweet Corn, Frozen	14	0			0.003 ^	0.20
Sweet Potatoes	553	0			0.003 ^	0.05
Watermelon	371	2	0.5	0.005 ^	0.003 ^	1.6
TOTAL	**9,852**	**957**				
Bromacil (herbicide)						
Baby Food - Green Beans	192	0			0.009 ^	NT
Baby Food - Sweet Potatoes	191	0			0.030 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cucumbers	372	0			0.030 - 0.20	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	373	0			0.030 ^	NT
Hot Peppers	93	0			0.009 ^	NT
Lettuce	742	0			0.003 ^	NT
Orange Juice	191	0			0.003 ^	0.1
Sweet Corn, Fresh	230	0			0.030 - 0.10	NT
Sweet Corn, Frozen	14	0			0.030 - 0.10	NT
Sweet Potatoes	553	0			0.030 ^	NT
Watermelon	371	0			0.009 ^	NT
TOTAL	**3,875**	**0**				
Buprofezin (insecticide)						
Apples	744	1	0.1	0.007 ^	0.001 ^	4.0
Baby Food - Green Beans	192	0			0.003 ^	0.02
Baby Food - Pears	191	26	13.6	0.002 - 0.005	0.001 ^	4.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.001 ^	0.02
Cantaloupe	371	0			0.010 ^	0.50
Cilantro	555	0			0.001 ^	NT
Cucumbers	744	3	0.4	0.005 - 0.030	0.001 - 0.003	0.50
Garbanzo Beans, Canned	186	0			0.001 ^	0.02
Grapes	745	50	6.7	0.001 - 0.050	0.001 - 0.003	2.5
Hot Peppers	186	1	0.5	0.005 ^	0.001 - 0.003	4.0
Lettuce	743	8	1.1	0.001 - 0.64	0.001 ^	35
Mangoes	372	0			0.010 ^	0.90
Orange Juice	157	0			0.001 ^	2.5
Oranges	744	0			0.010 ^	2.5
Pears	743	26	3.5	0.067 - 0.97	0.040 ^	4.0
Spinach, Canned	181	0			0.003 ^	35
Spinach, Frozen	191	1	0.5	0.011 ^	0.003 ^	35
Sweet Bell Peppers	744	4	0.5	0.001 - 0.015	0.001 ^	1.3
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	0.50
TOTAL	**9,546**	**120**				
Captan (fungicide) (parent of THPI)						
Grapes	372	3	0.8	0.068 - 0.10	0.048 - 0.19	25.0
Hot Peppers	77	0			0.40 ^	0.05
Pears	743	2	0.3	0.30 ^	0.20 ^	25.0
Sweet Bell Peppers	735	0			0.19 ^	0.05
TOTAL	**1,927**	**5**				
Carbaryl (insecticide)						
Apples	744	18	2.4	0.002 - 0.57	0.001 ^	12
Asparagus	372	3	0.8	0.064 - 2.3	0.010 ^	15
Baby Food - Green Beans	192	0			0.003 ^	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
Baby Food - Pears	191	0			0.001 ^	12
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.2
Black Beans, Canned	367	0			0.003 ^	NT
Cabbage	743	1	0.1	0.005 ^	0.001 - 0.003	21
Cantaloupe	371	0			0.010 ^	3.0
Cilantro (V-5)	555	5	0.9	0.006 - 0.065	0.006 ^	NT
Cucumbers	744	7	0.9	0.002 - 1.8	0.001 - 0.003	3.0
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	3	0.4	0.003 - 0.025	0.001 - 0.003	10
Hot Peppers	186	14	7.5	0.005 - 0.57	0.003 - 0.008	5.0
Lettuce	743	0			0.003 ^	10
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	92	48.2	0.003 - 0.017	0.003 ^	10
Oranges	744	2	0.3	0.011 - 0.027	0.010 ^	10
Pears	743	0			0.007 ^	12
Spinach, Canned	181	0			0.016 ^	22
Spinach, Frozen	191	1	0.5	0.049 ^	0.016 ^	22
Sweet Bell Peppers	744	60	8.1	0.001 - 0.58	0.001 ^	5.0
Sweet Corn, Fresh	480	0			0.003 - 0.010	0.1
Sweet Corn, Frozen	73	0			0.003 - 0.010	0.1
Sweet Potatoes	553	0			0.003 ^	0.2
Watermelon	371	0			0.003 ^	3.0
TOTAL	**10,973**	**206**				
Carbendazim - MBC (fungicide) (metabolite of Benomyl)						
Apples	744	131	17.6	0.002 - 0.10	0.001 ^	7.0
Baby Food - Pears	191	22	11.5	0.002 - 0.021	0.001 ^	7.0
Cantaloupe	371	4	1.1	0.017 - 0.024	0.010 ^	1.0
Cilantro (V-17)	555	17	3.1	0.002 - 0.92	0.001 ^	NT
Cucumbers	372	78	21	0.002 - 0.073	0.001 ^	1.0
Grapes	372	10	2.7	0.002 - 0.041	0.002 ^	10.0
Mangoes	372	11	3.0	0.010 - 0.039	0.010 ^	3.0
Oranges	744	0			0.010 ^	10.0
Sweet Bell Peppers	744	18	2.4	0.002 - 0.082	0.002 ^	0.2
TOTAL	**4,465**	**291**				
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)						
Apples	744	0			0.001 ^	NT
Asparagus	372	0			0.010 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cabbage	743	0			0.001 - 0.003	NT
Cantaloupe	186	0			0.010 ^	0.4
Cilantro (V-6)	555	6	1.1	0.010 - 0.50	0.006 - 0.015	NT
Cucumbers	744	1	0.1	0.088 ^	0.001 - 0.003	0.4
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	0			0.001 - 0.003	0.4
Hot Peppers	186	0			0.001 - 0.003	1
Lettuce	743	0			0.003 ^	NT
Mangoes	186	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	NT
Oranges	417	0			0.010 ^	NT
Pears	743	0			0.015 ^	NT
Spinach, Canned	181	0			0.005 ^	NT
Spinach, Frozen	191	0			0.005 ^	NT
Sweet Bell Peppers	744	1	0.1	0.001 ^	0.001 ^	1
Sweet Corn, Fresh	480	0			0.003 - 0.010	1.0
Sweet Corn, Frozen	73	0			0.003 - 0.010	1.0
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	0.4
TOTAL	**10,275**	**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
Carbophenothion (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Grapes	373	0			0.006 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**4,282**	**0**				
Carbophenothion methyl (insecticide)						
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cucumbers	372	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**2,420**	**0**				
Carboxin (fungicide)						
Baby Food - Green Beans	192	0			0.003 ^	0.2
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	481	0			0.003 - 0.080	0.2
Sweet Corn, Frozen	73	0			0.003 - 0.080	0.2
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,699**	**0**				
Carfentrazone (herbicide)						
Apples	744	0			0.005 - 0.030	0.10
Baby Food - Green Beans	192	0			0.002 ^	0.10
Baby Food - Pears	191	0			0.005 ^	0.10
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.10
Black Beans, Canned	367	0			0.005 ^	0.10
Cabbage	743	0			0.016 ^	0.10
Cantaloupe	371	0			0.008 ^	0.10
Cilantro	555	0			0.005 - 0.015	2.0
Cucumbers	744	0			0.002 - 0.005	0.10
Garbanzo Beans, Canned	186	0			0.005 ^	0.10
Grapes	745	0			0.002 - 0.016	0.10
Hot Peppers	186	0			0.002 - 0.016	0.10
Lettuce	743	1	0.1	0.015 ^	0.005 ^	0.10
Mangoes	350	0			0.008 ^	0.10
Orange Juice	191	0			0.005 ^	0.10
Oranges	744	0			0.008 ^	0.10
Pears	743	0			0.019 ^	0.10
Spinach, Canned	181	0			0.060 ^	0.10
Spinach, Frozen	191	0			0.060 ^	0.10
Sweet Bell Peppers	744	0			0.016 ^	0.10
Sweet Corn, Fresh	481	0			0.002 - 0.020	0.10
Sweet Corn, Frozen	73	0			0.002 - 0.020	0.10

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
Sweet Potatoes	553	0			0.002 ^	0.10
Watermelon	371	0			0.002 ^	0.10
TOTAL	**10,580**	**1**				
Chlorantraniliprole (insecticide)						
Apples	744	305	41.0	0.003 - 0.085	0.002 ^	1.2
Baby Food - Pears	191	11	5.8	0.003 - 0.008	0.002 ^	1.2
Cantaloupe	186	0			0.020 ^	0.25
Cilantro	555	105	18.9	0.003 - 0.029	0.002 ^	25
Cucumbers	372	11	3.0	0.003 ^	0.002 ^	0.25
Hot Peppers	93	1	1.1	0.031 ^	0.016 ^	0.70
Mangoes	186	0			0.020 ^	4.0
Orange Juice	160				0.010 ^	1.4
Spinach, Canned	181	3	1.7	0.036 - 0.085	0.032 ^	13
Spinach, Frozen	191	38	19.9	0.034 - 2.9	0.032 ^	13
TOTAL	**2,859**	**474**				
Chlorethoxyfos (insecticide)						
Apples	744	0			0.001 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cucumbers	744	0			0.001 - 0.002	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	481	0			0.002 - 0.040	0.01
Sweet Corn, Frozen	73	0			0.002 - 0.040	0.01
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**3,815**	**0**				
Chlorfenapyr (insecticide)						
Apples	744	0			0.002 - 0.016	0.01
Asparagus	372	0			0.050 ^	0.01
Baby Food - Pears	174	0			0.002 ^	0.01
Black Beans, Canned	367	0			0.006 ^	0.01
Cabbage	743	0			0.073 ^	0.01
Cantaloupe	326	0			0.025 ^	0.01
Cilantro	539	0			0.008 ^	0.01
Cucumbers (X-1)	372	13	3.5	0.004 - 0.022	0.002 - 0.008	0.01
Garbanzo Beans, Canned	186	0			0.006 ^	0.01
Hot Peppers	93	0			0.40 ^	1.0
Lettuce	743	0			0.006 ^	0.01
Mangoes	351	0			0.025 ^	0.01
Orange Juice	191	0			0.006 ^	0.01
Pears	743	0			0.027 ^	0.01
Spinach, Canned	181	0			0.080 ^	0.01
Spinach, Frozen	191	0			0.080 ^	0.01
Sweet Bell Peppers	744	38	5.1	0.009 - 0.37	0.007 ^	1.0
Sweet Corn, Fresh	220	0			0.050 ^	0.01
Sweet Corn, Frozen	59	0			0.050 ^	0.01
TOTAL	**7,339**	**51**				
Chlorfenvinphos (insecticide)						
Apples	744	0			0.004 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.004 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cilantro	555	0			0.004 ^	NT
Cucumbers	744	0			0.003 - 0.004	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	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 Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**4,282**	**0**				
Chlorothalonil (fungicide)						
Black Beans, Canned	367	0			0.020 ^	0.1
Cantaloupe	309	3	1.0	0.005 ^	0.003 ^	5.0
Garbanzo Beans, Canned	186	0			0.020 ^	0.1
Lettuce	743	0			0.020 ^	NT
Orange Juice	191	0			0.020 ^	NT
Oranges	744	0			0.003 ^	NT
TOTAL	**2,540**	**3**				
Chlorpropham (herbicide, growth regulator)						
Apples (V-3)	744	3	0.4	0.010 - 0.059	0.006 ^	NT
Baby Food - Green Beans	192	0			0.005 ^	NT
Baby Food - Pears	191	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.018 ^	NT
Black Beans, Canned	367	0			0.010 ^	NT
Cantaloupe	330	0			0.038 ^	NT
Cilantro	429	0			0.020 - 0.13	NT
Cucumbers (V-1)	744	1	0.1	0.010 ^	0.006 - 0.018	NT
Garbanzo Beans, Canned	186	0			0.010 ^	NT
Grapes	373	0			0.018 ^	NT
Hot Peppers (V-1)	93	1	1.1	0.008 ^	0.005 ^	NT
Lettuce	743	0			0.010 ^	NT
Mangoes (V-3)	351	3	0.9	0.063 - 0.067	0.038 ^	NT
Orange Juice	191	0			0.010 ^	NT
Oranges	639	0			0.038 ^	NT
Sweet Corn, Fresh	261	0			0.018 ^	NT
Sweet Corn, Frozen	14	0			0.018 ^	NT
Sweet Potatoes (V-6)	553	6	1.1	0.030 ^	0.018 ^	NT
Watermelon	371	0			0.005 ^	NT
TOTAL	**6,963**	**14**				
Chlorpyrifos (insecticide)						
Apples	744	12	1.6	0.002 - 0.011	0.001 - 0.004	0.1
Asparagus	372	11	3.0	0.035 - 0.32	0.020 ^	5.0
Baby Food - Green Beans	192	0			0.002 ^	0.1
Baby Food - Pears	191	0			0.001 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.1
Black Beans, Canned	367	0			0.025 ^	0.1
Cabbage	741	0			0.027 ^	1.0
Cantaloupe	371	2	0.5	0.005 ^	0.003 ^	0.1
Cilantro (X-2)	555	150	27.0	0.002 - 0.67	0.001 ^	0.1
Cucumbers (X-1)	744	24	3.2	0.002 - 0.45	0.001 - 0.002	0.1
Garbanzo Beans, Canned	186	0			0.025 ^	0.1
Grapes	745	8	1.1	0.004 - 0.049	0.002 - 0.005	0.1
Hot Peppers	186	21	11.3	0.004 - 0.17	0.002 - 0.050	1.0
Lettuce	743	2	0.3	0.070 - 0.078	0.025 ^	1.0
Mangoes	372	1	0.3	0.005 ^	0.003 ^	0.1
Orange Juice	191	0			0.025 ^	1.0
Oranges	744	5	0.7	0.005 - 0.012	0.003 ^	1.0
Pears	743	3	0.4	0.005 ^	0.003 ^	0.1
Spinach, Canned	181	0			0.020 ^	0.1
Spinach, Frozen	191	2	1.0	0.024 ^	0.020 ^	0.1
Sweet Bell Peppers	744	73	9.8	0.025 - 0.51	0.025 ^	1.0
Sweet Corn, Fresh	481	0			0.002 - 0.020	0.1
Sweet Corn, Frozen	73	0			0.002 - 0.020	0.1
Sweet Potatoes	553	23	4.2	0.004 - 0.018	0.002 - 0.007	0.1
Watermelon	371	0			0.002 ^	0.1
TOTAL	**10,972**	**337**				

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
Chlorpyrifos oxygen analog (metabolite of Chlorpyrifos)						
Asparagus	372	0			0.010 ^	5.0
Baby Food - Green Beans	192	0			0.006 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.1
Black Beans, Canned	367	0			0.002 ^	0.1
Cabbage	370	0			0.23 ^	1.0
Cucumbers	372	0			0.006 ^	0.1
Garbanzo Beans, Canned	186	0			0.002 ^	0.1
Grapes	745	0			0.006 - 0.036	0.1
Hot Peppers	186	0			0.006 - 0.008	1.0
Lettuce	743	0			0.002 ^	1.0
Orange Juice	191	0			0.002 ^	1.0
Pears	743	0			0.005 ^	0.1
Spinach, Canned	181	0			0.005 ^	0.1
Spinach, Frozen	191	0			0.005 ^	0.1
Sweet Bell Peppers	744	0			0.018 ^	1.0
Sweet Corn, Fresh	480	0			0.006 - 0.010	0.1
Sweet Corn, Frozen	73	0			0.006 - 0.010	0.1
Sweet Potatoes	553	0			0.006 ^	0.1
Watermelon	371	0			0.006 ^	0.1
TOTAL	**7,251**	**0**				
Clethodim (herbicide)						
Apples	744	0			0.002 - 0.008	NT
Baby Food - Pears	191	0			0.002 ^	NT
Cabbage	743	0			0.002 - 0.006	3.0
Cilantro	555	0			0.002 ^	12.0
Cucumbers	372	0			0.002 - 0.015	0.50
TOTAL	**2,605**	**0**				
Clofentezine (insecticide)						
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Sweet Potatoes	191	0			0.012 ^	NT
Cucumbers	372	0			0.012 ^	NT
Grapes	373	0			0.012 ^	1.0
Hot Peppers	93	0			0.012 ^	NT
Pears	743	0			0.094 ^	0.5
Sweet Corn, Fresh	261	0			0.012 ^	NT
Sweet Corn, Frozen	14	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	NT
Watermelon (V-1)	371	1	0.3	0.020 ^	0.012 ^	NT
TOTAL	**3,163**	**1**				
Clomazone (herbicide)						
Apples	744	0			0.002 - 0.008	NT
Baby Food - Green Beans	192	0			0.002 ^	0.05
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.009 ^	0.05
Black Beans, Canned	367	0			0.005 ^	0.05
Cantaloupe	330	0			0.015 ^	0.05
Cilantro (V-1)	555	1	0.2	0.004 ^	0.002 - 0.008	NT
Cucumbers	744	0			0.002 - 0.009	0.1
Garbanzo Beans, Canned	186	0			0.005 ^	0.05
Grapes	373	0			0.009 ^	NT
Hot Peppers	186	0			0.002 - 0.016	0.05
Lettuce	743	0			0.005 ^	NT
Orange Juice	191	0			0.005 ^	NT
Oranges	744	0			0.015 ^	NT
Sweet Bell Peppers	744	0			0.001 ^	0.05
Sweet Corn, Fresh	261	0			0.009 ^	NT
Sweet Corn, Frozen	14	0			0.009 ^	NT
Sweet Potatoes	553	0			0.009 ^	0.05
Watermelon	371	0			0.002 ^	0.05
TOTAL	**7,680**	**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
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)						
Baby Food - Green Beans	192	0			0.003 ^	0.02
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.3
Black Beans, Canned	367	0			0.010 ^	0.02
Cabbage	743	0			0.002 - 0.006	4.5
Cantaloupe	371	0			0.010 ^	0.2
Cucumbers	372	6	1.6	0.005 ^	0.003 ^	0.2
Garbanzo Beans, Canned	186	0			0.010 ^	0.02
Grapes	745	20	2.7	0.005 - 0.18	0.003 - 0.010	0.60
Hot Peppers	186	21	11.3	0.005 - 0.032	0.003 - 0.040	0.25
Lettuce	743	0			0.010 ^	3.0
Mangoes	372	0			0.010 ^	0.40
Orange Juice	191	0			0.010 ^	0.40
Oranges	744	0			0.010 ^	0.40
Pears	743	40	5.4	0.030 - 0.10	0.018 ^	1.0
Spinach, Canned	181	2	1.1	0.066 - 0.075	0.040 ^	3.0
Spinach, Frozen	191	0			0.040 ^	3.0
Sweet Bell Peppers	744	81	10.9	0.010 - 0.077	0.010 ^	0.25
Sweet Corn, Fresh	480	0			0.003 - 0.020	0.02
Sweet Corn, Frozen	73	0			0.003 - 0.020	0.02
Sweet Potatoes	553	0			0.003 ^	0.3
Watermelon	371	2	0.5	0.005 ^	0.003 ^	0.2
TOTAL	**8,739**	**172**				
Coumaphos (insecticide)						
Apples	744	0			0.006 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cilantro	555	0			0.006 ^	NT
Cucumbers	744	0			0.003 - 0.006	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Oranges	723	0			0.015 - 0.030	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**5,005**	**0**				
Coumaphos oxygen analog (metabolite of Coumaphos)						
Apples	744	0			0.008 ^	NT
Baby Food - Pears	191	0			0.008 ^	NT
Cilantro	555	0			0.008 - 0.025	NT
Cucumbers	372	0			0.008 ^	NT
TOTAL	**1,862**	**0**				
Crotoxyphos (insecticide, acaricide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Crufomate (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	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
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Cyazofamid (fungicide)						
Grapes	372	0			0.010 ^	1.5
Hot Peppers	93	0			0.16 ^	0.40
Sweet Bell Peppers	744	2	0.3	0.017 - 0.018	0.010 ^	0.40
TOTAL	**1,209**	**2**				
Cycloate (herbicide)						
Spinach, Canned	181	0			0.003 ^	0.05
Spinach, Frozen	191	0			0.003 ^	0.05
TOTAL	**372**	**0**				
Cyfluthrin (insecticide)						
Apples	728	0			0.041 - 0.27	0.5
Asparagus	372	0			0.050 ^	0.05
Baby Food - Green Beans	192	0			0.030 ^	0.05
Baby Food - Pears	191	0			0.041 ^	0.5
Baby Food - Sweet Potatoes	191	0			0.030 ^	0.01
Black Beans, Canned	367	0			0.002 ^	0.05
Cabbage	743	0			0.15 ^	2.5
Cantaloupe	371	0			0.075 ^	0.1
Cucumbers	744	0			0.030 - 0.14	0.1
Garbanzo Beans, Canned	186	0			0.002 ^	0.05
Grapes	745	1	0.1	0.12 ^	0.030 - 0.11	1.0
Hot Peppers	186	0			0.030 - 0.20	0.5
Lettuce	743	14	1.9	0.006 - 0.16	0.002 ^	3.0
Mangoes	248	0			0.075 - 0.38	0.05
Orange Juice	191	0			0.002 ^	0.2
Oranges	744	0			0.075 ^	0.2
Pears	743	0			0.069 ^	0.5
Spinach, Canned	181	9	5.0	0.083 - 0.49	0.060 ^	6.0
Spinach, Frozen	191	33	17.3	0.074 - 3.6	0.060 ^	6.0
Sweet Bell Peppers	744	6	0.8	0.025 - 0.091	0.022 ^	0.5
Sweet Corn, Fresh	481	0			0.030 - 0.25	0.05
Sweet Corn, Frozen	73	0			0.030 - 0.25	0.05
Sweet Potatoes	553	0			0.030 ^	0.01
Watermelon	371	0			0.030 ^	0.1
TOTAL	**10,279**	**63**				
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide)						
Apples	744	8	1.1	0.025 - 0.089	0.020 - 0.083	0.30
Asparagus (X-2)	372	2	0.5	0.043 - 0.080	0.025 ^	0.01
Baby Food - Pears	181	0			0.006 - 0.020	0.30
Black Beans, Canned	367	0			0.001 ^	0.01
Cabbage	743	0			0.034 ^	0.4
Cantaloupe	371	0			0.050 ^	0.05
Cucumbers	372	2	0.5	0.010 ^	0.006 ^	0.05
Garbanzo Beans, Canned	186	0			0.001 ^	0.01
Grapes	372	0			0.020 ^	0.01
Hot Peppers	93	0			0.20 ^	0.20
Lettuce	743	147	19.8	0.001 - 0.69	0.001 ^	2.0
Mangoes	371	0			0.050 ^	0.01
Orange Juice	191	0			0.001 ^	0.01
Oranges	744	0			0.050 ^	0.01
Pears	743	3	0.4	0.12 ^	0.075 ^	0.30
Spinach, Canned	181	0			0.020 ^	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
Spinach, Frozen (X-2)	191	2	1.0	0.042 - 0.32	0.020 ^	0.01
Sweet Bell Peppers	744	38	5.1	0.010 - 0.098	0.010 ^	0.20
Sweet Corn, Fresh	220	0			0.025 ^	0.05
Sweet Corn, Frozen	59	0			0.025 ^	0.05
TOTAL	**7,988**	**202**				
Cyhalothrin, Lambda (includes gamma isomer)						
Baby Food - Green Beans	192	0			0.006 ^	0.20
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.02
Cucumbers	372	3	0.8	0.010 ^	0.006 ^	0.05
Grapes	373	1	0.3	0.010 ^	0.006 ^	0.01
Hot Peppers	93	6	6.5	0.009 - 0.035	0.006 ^	0.20
Sweet Corn, Fresh	261	0			0.006 ^	0.05
Sweet Corn, Frozen	14	0			0.006 ^	0.05
Sweet Potatoes	553	0			0.006 ^	0.02
Watermelon	371	0			0.006 ^	0.05
TOTAL	**2,420**	**10**				
Cyhalothrin, Lambda epimer R157836 (isomer of Cyhalothrin)						
Baby Food - Green Beans	192	0			0.006 ^	0.20
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.02
Cucumbers	372	0			0.006 ^	0.05
Grapes	373	0			0.006 ^	0.01
Hot Peppers	93	4	4.3	0.010 - 0.023	0.006 ^	0.20
Sweet Corn, Fresh	261	0			0.006 ^	0.05
Sweet Corn, Frozen	14	0			0.006 ^	0.05
Sweet Potatoes	553	0			0.006 ^	0.02
Watermelon	371	0			0.006 ^	0.05
TOTAL	**2,420**	**4**				
Cymoxanil (fungicide)						
Grapes	372	0			0.010 ^	0.10
Hot Peppers	93	0			0.16 ^	0.2
Lettuce	743	6	0.8	0.002 - 0.14	0.002 ^	19
Orange Juice	191	0			0.002 ^	NT
Sweet Bell Peppers	744	0			0.010 ^	0.2
TOTAL	**2,143**	**6**				
Cypermethrin (insecticide)						
Apples	728	0			0.051 - 0.17	2
Asparagus (X-1)	372	1	0.3	0.072 ^	0.066 ^	0.05
Baby Food - Green Beans	192	0			0.030 ^	0.05
Baby Food - Pears	191	0			0.043 ^	2
Baby Food - Sweet Potatoes	191	0			0.030 ^	0.1
Black Beans, Canned	367	0			0.002 ^	0.1
Cabbage	743	0			0.12 ^	2.00
Cantaloupe	371	0			0.075 ^	0.2
Cucumbers	744	1	0.1	0.25 ^	0.030 - 0.14	0.2
Garbanzo Beans, Canned	186	0			0.002 ^	0.1
Grapes	745	0			0.030 - 0.11	2
Hot Peppers	186	0			0.030 - 0.20	0.2
Lettuce	743	173	23.3	0.002 - 0.92	0.002 ^	10.00
Mangoes	371	0			0.075 ^	0.05
Orange Juice	191	0			0.002 ^	0.35
Oranges	744	0			0.075 ^	0.35
Pears	743	0			0.066 ^	2
Spinach, Canned	181	112	61.9	0.12 - 3.1	0.10 ^	10.00
Spinach, Frozen	191	56	29.3	0.15 - 5.1	0.10 ^	10.00
Sweet Bell Peppers	744	11	1.5	0.062 - 0.13	0.054 ^	0.2
Sweet Corn, Fresh	481	0			0.030 - 0.066	0.05
Sweet Corn, Frozen	73	0			0.030 - 0.066	0.05
Sweet Potatoes	553	1	0.2	0.11 ^	0.030 ^	0.1
Watermelon	371	0			0.030 ^	0.2
TOTAL	**10,402**	**355**				

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
Cyphenothrin (insecticide)						
Asparagus	372	0			0.040 ^	NT
Baby Food - Green Beans	192	0			0.10 ^	NT
Baby Food - Sweet Potatoes	191	0			0.030 ^	NT
Black Beans, Canned	367	0			0.006 ^	NT
Cabbage	743	0			0.003 - 0.009	NT
Cucumbers	372	0			0.030 ^	NT
Garbanzo Beans, Canned	186	0			0.006 ^	NT
Grapes	745	0			0.015 - 0.030	NT
Hot Peppers	93	0			0.10 ^	NT
Lettuce (V-1)	743	1	0.1	0.037 ^	0.006 ^	NT
Orange Juice	164	0			0.006 ^	NT
Pears	693	0			0.040 ^	NT
Spinach, Canned	181	0			0.060 ^	NT
Spinach, Frozen	191	0			0.060 ^	NT
Sweet Bell Peppers	744	0			0.040 ^	NT
Sweet Corn, Fresh	481	0			0.030 - 0.040	NT
Sweet Corn, Frozen	73	0			0.030 - 0.040	NT
Sweet Potatoes	553	0			0.030 ^	NT
Watermelon	371	0			0.030 - 0.10	NT
TOTAL	**7,455**	**1**				
Cyprodinil (fungicide)						
Baby Food - Green Beans	192	0			0.002 ^	0.6
Baby Food - Sweet Potatoes	191	0			0.009 ^	NT
Cabbage	743	0			0.019 ^	1.0
Cantaloupe	371	0			0.008 ^	0.70
Cucumbers	372	3	0.8	0.015 - 0.037	0.009 ^	0.70
Grapes	745	163	21.9	0.010 - 2.0	0.009 - 0.010	2.0
Hot Peppers	93	0			0.002 ^	NT
Mangoes	351	0			0.008 ^	1.2
Orange Juice	191	0			0.005 ^	NT
Pears	743	0			0.018 ^	0.1
Sweet Bell Peppers (V-1)	744	1	0.1	0.011 ^	0.004 ^	NT
Sweet Corn, Fresh	261	0			0.009 ^	NT
Sweet Corn, Frozen	14	0			0.009 ^	NT
Sweet Potatoes	553	0			0.009 ^	NT
Watermelon	371	28	7.5	0.004 - 0.048	0.002 ^	0.70
TOTAL	**5,935**	**195**				
Cyromazine (insect growth regulator)						
Apples	186	0			0.002 ^	NT
Baby Food - Pears	191	0			0.008 ^	NT
Cucumbers	372	29	7.8	0.004 - 0.14	0.002 ^	1.0
Hot Peppers	93	0			0.040 ^	1.0
Spinach, Canned	181	0			0.16 ^	7.0
Spinach, Frozen	191	0			0.16 ^	7.0
TOTAL	**1,214**	**29**				
DCPA (herbicide)						
Apples (V-1)	744	1	0.1	0.002 ^	0.001 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	2.0
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	2.0
Black Beans, Canned	367	0			0.001 ^	2.0
Cabbage	743	0			0.018 ^	5.0
Cantaloupe	371	1	0.3	0.008 ^	0.008 ^	1.0
Cilantro	555	307	55.3	0.002 - 1.2	0.001 ^	5.0
Cucumbers	744	0			0.001 - 0.003	1.0
Garbanzo Beans, Canned	186	0			0.001 ^	2.0
Grapes	745	0			0.002 - 0.003	NT
Hot Peppers	186	0			0.002 - 0.080	2.0
Lettuce	743	178	24.0	0.001 - 0.024	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
Mangoes	371	0			0.008 ^	NT
Orange Juice	191	0			0.001 ^	NT
Oranges	744	0			0.008 ^	NT
Sweet Bell Peppers	744	4	0.5	0.001 - 0.004	0.001 ^	2.0
Sweet Corn, Fresh	481	0			0.003 - 0.020	0.05
Sweet Corn, Frozen	73	0			0.003 - 0.020	0.05
Sweet Potatoes	553	0			0.003 ^	2.0
Watermelon	371	0			0.002 ^	1.0
TOTAL	**9,486**	**491**				
DEF - Tribufos (herbicide, plant growth regulator)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Deltamethrin (includes parent Tralomethrin) (insecticide)						
Apples	714	0			0.080 - 0.33	0.2
Asparagus	372	0			0.050 ^	0.05
Baby Food - Green Beans	192	0			0.015 ^	0.05
Baby Food - Pears	191	0			0.080 ^	0.2
Baby Food - Sweet Potatoes	191	0			0.015 ^	0.05
Black Beans, Canned	367	0			0.009 ^	0.05
Cantaloupe	330	0			0.075 ^	0.2
Cucumbers	729	0			0.015 - 0.16	0.2
Garbanzo Beans, Canned	186	0			0.009 ^	0.05
Grapes	745	0			0.015 - 0.059	0.05
Hot Peppers	186	0			0.050 - 0.20	0.3
Lettuce	743	0			0.009 ^	0.05
Mangoes	371	0			0.075 ^	0.05
Orange Juice	191	0			0.009 ^	0.05
Oranges	723	0			0.075 ^	0.05
Pears	743	0			0.14 ^	0.2
Spinach, Canned	181	0			0.040 ^	0.05
Spinach, Frozen	191	0			0.040 ^	0.05
Sweet Bell Peppers	744	0			0.051 ^	0.3
Sweet Corn, Fresh	481	0			0.015 - 0.10	0.05
Sweet Corn, Frozen	73	0			0.015 - 0.10	0.05
Sweet Potatoes	553	0			0.015 ^	0.05
Watermelon	371	0			0.015 ^	0.2
TOTAL	**9,568**	**0**				
Demeton-O (metabolite of the insecticide Demeton)						
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cucumbers	372	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
TOTAL	**2,049**	**0**				
Demeton-S (metabolite of Demeton)						
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cucumbers	372	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
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**2,420**	**0**				
Demeton-S sulfone (metabolite of Demeton-S)						
Lettuce (V-2)	743	2	0.3	0.004 - 0.005	0.004 ^	NT
Orange Juice	191	0			0.004 ^	NT
TOTAL	**934**	**2**				
Desmedipham (herbicide)						
Spinach, Canned	181	0			0.005 ^	6.0
Spinach, Frozen	191	0			0.005 ^	6.0
TOTAL	**372**	**0**				
Diazinon (insecticide)						
Apples	744	48	6.5	0.003 - 0.20	0.002 ^	0.50
Baby Food - Green Beans	192	0			0.001 ^	0.50
Baby Food - Pears	191	0			0.002 ^	0.50
Baby Food - Sweet Potatoes	191	0			0.001 ^	0.10
Black Beans, Canned	367	0			0.005 ^	NT
Cabbage	743	0			0.021 ^	0.70
Cantaloupe	371	1	0.3	0.003 ^	0.002 ^	0.75
Cilantro (V-78)	555	78	14.1	0.003 - 0.88	0.002 ^	NT
Cucumbers	744	2	0.3	0.008 - 0.024	0.001 - 0.002	0.75
Garbanzo Beans, Canned	186	0			0.005 ^	NT
Grapes	745	0			0.001 - 0.010	0.75
Hot Peppers	186	2	1.1	0.005 - 0.009	0.001 ^	0.5
Lettuce	743	5	0.7	0.006 - 0.025	0.005 ^	0.70
Mangoes	372	0			0.002 ^	NT
Orange Juice	191	0			0.005 ^	NT
Oranges	744	0			0.002 ^	NT
Pears	743	1	0.1	0.005 ^	0.003 ^	0.50
Spinach, Canned	181	0			0.001 ^	0.70
Spinach, Frozen	191	0			0.001 ^	0.70
Sweet Bell Peppers	744	2	0.3	0.008 - 0.29	0.004 ^	0.5
Sweet Corn, Fresh	480	0			0.001 - 0.010	NT
Sweet Corn, Frozen	73	0			0.001 - 0.010	NT
Sweet Potatoes	553	0			0.001 ^	0.10
Watermelon	371	0			0.001 ^	0.75
TOTAL	**10,601**	**139**				
Diazinon oxygen analog (metabolite of Diazinon)						
Apples	744	0			0.003 ^	0.50
Baby Food - Green Beans	192	0			0.002 ^	0.50
Baby Food - Pears	191	0			0.003 ^	0.50
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.10
Black Beans, Canned	367	0			0.005 ^	NT
Cabbage	743	0			0.042 ^	0.70
Cantaloupe	371	0			0.001 ^	0.75
Cilantro (V-1)	555	1	0.2	0.005 ^	0.003 ^	NT
Cucumbers	744	0			0.002 - 0.003	0.75
Garbanzo Beans, Canned	186	0			0.005 ^	NT
Grapes	745	0			0.002 - 0.015	0.75
Hot Peppers	186	0			0.002 - 0.008	0.5
Lettuce	743	0			0.005 ^	0.70
Mangoes	372	0			0.001 ^	NT
Orange Juice	191	0			0.005 ^	NT
Oranges	744	0			0.001 ^	NT
Pears	743	0			0.014 ^	0.50

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
Spinach, Canned	181	0			0.001 ^	0.70
Spinach, Frozen	191	0			0.001 ^	0.70
Sweet Corn, Fresh	480	0			0.002 ^	NT
Sweet Corn, Frozen	73	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	0.10
Watermelon	371	0			0.002 ^	0.75
TOTAL	**9,857**	**1**				
Dichlobenil (herbicide)						
Apples	744	0			0.019 ^	0.5
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.019 ^	0.5
Baby Food - Sweet Potatoes	191	0			0.005 ^	NT
Cantaloupe	330	0			0.013 ^	NT
Cilantro	555	0			0.019 ^	NT
Cucumbers	744	0			0.005 - 0.019	NT
Grapes	373	0			0.005 ^	0.15
Hot Peppers	93	0			0.003 ^	NT
Mangoes	330	0			0.013 ^	NT
Oranges	597	0			0.013 ^	NT
Pears	743	0			0.017 ^	0.5
Sweet Corn, Fresh	261	0			0.005 ^	NT
Sweet Corn, Frozen	14	0			0.005 ^	NT
Sweet Potatoes	553	0			0.005 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**6,282**	**0**				
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)						
Apples	744	0			0.003 - 0.010	0.5
Asparagus	372	0			0.10 ^	0.5
Baby Food - Green Beans	192	0			0.002 ^	0.5
Baby Food - Pears	191	0			0.010 ^	0.5
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.5
Black Beans, Canned	367	0			0.020 ^	0.5
Cabbage	743	0			0.092 ^	1
Cantaloupe	371	0			0.010 ^	0.5
Cucumbers	744	2	0.3	0.004 - 0.005	0.002 - 0.003	0.5
Garbanzo Beans, Canned	186	0			0.020 ^	0.5
Grapes	373	0			0.002 ^	0.5
Hot Peppers	186	0			0.002 - 0.080	0.5
Lettuce	743	0			0.020 ^	1
Mangoes	372	0			0.010 ^	0.5
Orange Juice	191	0			0.020 ^	3
Pears	743	0			0.002 ^	0.5
Spinach, Canned	181	0			0.032 ^	3
Spinach, Frozen	191	0			0.032 ^	3
Sweet Bell Peppers	744	0			0.020 ^	0.5
Sweet Corn, Fresh	480	0			0.002 - 0.10	0.5
Sweet Corn, Frozen	73	0			0.002 - 0.10	0.5
Sweet Potatoes	553	0			0.002 ^	0.5
Watermelon	371	0			0.002 ^	0.5
TOTAL	**9,302**	**2**				
Dicloran (fungicide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.005 ^	20
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	4	2.1	0.010 ^	0.006 ^	10
Black Beans, Canned	367	0			0.005 ^	NT
Cantaloupe	371	0			0.004 ^	NT
Cilantro (V-20)	493	20	4.1	0.003 - 0.050	0.002 - 0.013	NT
Cucumbers	744	2	0.3	0.010 - 0.063	0.002 - 0.006	5
Garbanzo Beans, Canned	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
Grapes	745	6	0.8	0.010 - 0.23	0.006 - 0.026	10
Hot Peppers	93	0			0.005 ^	NT
Lettuce	743	2	0.3	0.009 - 0.024	0.005 ^	10
Mangoes	372	0			0.004 ^	NT
Orange Juice	191	0			0.005 ^	NT
Oranges (V-1)	373	1	0.3	0.047 ^	0.013 ^	NT
Sweet Bell Peppers	744	0			0.005 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	255	46.1	0.010 - 0.92	0.006 ^	10
Watermelon	371	0			0.005 ^	NT
TOTAL	**7,939**	**290**				
Dicofol o,p' (isomer of insecticide Dicofol)						
Apples	744	1	0.1	0.005 ^	0.003 ^	10.0
Baby Food - Pears	191	0			0.003 ^	10.0
Cilantro	509	0			0.010 ^	NT
Cucumbers	372	4	1.1	0.005 - 0.026	0.003 - 0.010	2.0
Grapes	372	0			0.012 ^	5.0
Sweet Bell Peppers	744	10	1.3	0.001 - 0.026	0.001 ^	2.0
TOTAL	**2,932**	**15**				
Dicofol p,p' (isomer of Dicofol)						
Apples	744	2	0.3	0.014 - 0.088	0.003 - 0.010	10.0
Baby Food - Green Beans	192	0			0.006 ^	3.0
Baby Food - Pears	191	1	0.5	0.005 ^	0.003 ^	10.0
Baby Food - Sweet Potatoes	191	0			0.021 ^	NT
Black Beans, Canned	367	0			0.002 ^	3.0
Cilantro (V-2)	539	2	0.4	0.005 - 0.022	0.003 - 0.010	NT
Cucumbers	744	9	1.2	0.005 - 0.20	0.003 - 0.021	2.0
Garbanzo Beans, Canned	186	0			0.002 ^	3.0
Grapes	745	0			0.020 - 0.021	5.0
Hot Peppers	186	0			0.006 - 0.40	2.0
Lettuce	743	0			0.002 ^	NT
Orange Juice	191	0			0.002 ^	6.0
Pears	743	0			0.015 ^	10.0
Sweet Bell Peppers	744	14	1.9	0.003 - 0.16	0.002 ^	2.0
Sweet Corn, Fresh	261	0			0.021 ^	NT
Sweet Corn, Frozen	14	0			0.021 ^	NT
Sweet Potatoes	553	0			0.021 ^	NT
Watermelon	371	0			0.006 ^	2.0
TOTAL	**7,705**	**28**				
Dicrotophos (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Cucumbers	372	0			0.002 ^	NT
TOTAL	**1,307**	**0**				
Difenoconazole (fungicide)						
Apples	744	2	0.3	0.002 ^	0.001 - 0.003	1.0
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.001 - 0.003	1.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.01
Cantaloupe	371	0			0.005 ^	0.70
Cilantro	555	0			0.001 - 0.003	NT
Cucumbers	744	2	0.3	0.005 - 0.016	0.001 - 0.006	0.70
Grapes	745	30	4.0	0.003 - 0.048	0.003 ^	4.0
Hot Peppers	186	1	0.5	0.005 ^	0.001 - 0.003	0.60
Mangoes	372	0			0.005 ^	NT
Oranges	744	0			0.005 ^	0.60
Sweet Bell Peppers	744	21	2.8	0.005 - 0.30	0.003 ^	0.60
Sweet Corn, Fresh	481	0			0.003 - 0.10	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
Sweet Corn, Frozen	73	0			0.003 - 0.10	0.01
Sweet Potatoes	553	0			0.003 ^	0.01
Watermelon	371	0			0.003 ^	0.70
TOTAL	**7,257**	**56**				
Diflubenzuron (insecticide)						
Apples (V-37)	744	37	5.0	0.011 - 0.11	0.007 ^	NT
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Pears	191	8	4.2	0.011 ^	0.007 ^	0.50
Baby Food - Sweet Potatoes	191	0			0.012 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cilantro	555	0			0.007 ^	NT
Cucumbers	744	0			0.007 - 0.012	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	0			0.012 - 0.10	NT
Hot Peppers	186	2	1.1	0.020 ^	0.012 - 0.080	1.0
Lettuce	743	0			0.003 ^	NT
Orange Juice	191	0			0.003 ^	0.5
Sweet Bell Peppers	744	0			0.10 ^	1.0
Sweet Corn, Fresh	261	0			0.012 ^	NT
Sweet Corn, Frozen	14	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	NT
Watermelon (V-1)	371	1	0.3	0.020 ^	0.012 ^	NT
TOTAL	**6,978**	**48**				
Diflufenzopyr (herbicide)						
Sweet Corn, Fresh	219	0			0.008 ^	0.05
Sweet Corn, Frozen	59	0			0.008 ^	0.05
TOTAL	**278**	**0**				
Dimethenamid (herbicide)						
Apples	744	0			0.001 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Black Beans, Canned	367	0			0.003 ^	0.01
Cilantro (V-4)	555	4	0.7	0.002 ^	0.001 - 0.006	NT
Cucumbers	372	0			0.001 ^	NT
Garbanzo Beans, Canned	186	0			0.003 ^	0.01
Lettuce	712	0			0.003 ^	NT
Orange Juice	191	0			0.003 ^	NT
Sweet Corn, Fresh	220	0			0.020 ^	0.01
Sweet Corn, Frozen	59	0			0.020 ^	0.01
TOTAL	**3,597**	**4**				
Dimethoate (insecticide) (parent of Omethoate)						
Apples	744	0			0.002 ^	NT
Asparagus	372	0			0.008 ^	0.15
Baby Food - Green Beans	192	0			0.001 ^	2.0
Baby Food - Pears	191	0			0.002 ^	2.0
Baby Food - Sweet Potatoes	191	0			0.001 ^	NT
Black Beans, Canned	367	0			0.005 ^	2.0
Cantaloupe	371	9	2.4	0.010 - 0.022	0.010 ^	1.0
Cilantro (V-6)	555	6	1.1	0.004 - 0.076	0.002 ^	NT
Cucumbers (V-5)	744	5	0.7	0.004 - 0.057	0.001 - 0.002	NT
Garbanzo Beans, Canned	186	0			0.005 ^	2.0
Grapes	745	0			0.001 - 0.002	NT
Hot Peppers	186	6	3.2	0.002 - 0.17	0.001 - 0.040	2.0
Lettuce	743	7	0.9	0.005 - 0.046	0.005 ^	2.0
Mangoes (V-2)	372	2	0.5	0.026 - 0.13	0.010 ^	NT
Orange Juice	191	0			0.005 ^	2.0
Oranges	744	0			0.010 ^	2.0
Pears	743	1	0.1	0.59 ^	0.004 ^	2.0
Sweet Bell Peppers	744	33	4.4	0.003 - 0.99	0.002 ^	2.0
Sweet Corn, Fresh	261	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	14	0			0.001 ^	NT
Sweet Potatoes	553	0			0.001 ^	NT
Watermelon	371	13	3.5	0.002 - 0.027	0.001 ^	1.0
TOTAL	**9,580**	**82**				
Dimethomorph (fungicide)						
Apples	744	0			0.001 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cabbage	370	0			0.39 - 0.40	2.0
Cantaloupe	371	0			0.010 ^	0.5
Cilantro (V-27)	555	27	4.9	0.002 - 0.026	0.001 - 0.006	NT
Cucumbers	744	66	8.9	0.002 - 0.029	0.001 - 0.003	0.5
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	186	0			0.003 - 0.004	1.5
Lettuce	743	183	24.6	0.003 - 9.4	0.003 ^	10
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	0.5
TOTAL	**7,719**	**276**				
Dinotefuran (insecticide)						
Apples	744	0			0.006 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cabbage	743	2	0.3	0.008 - 0.015	0.005 - 0.015	1.4
Cantaloupe	371	54	14.6	0.011 - 0.18	0.010 ^	0.5
Cilantro (V-1)	555	1	0.2	0.064 ^	0.020 ^	NT
Cucumbers	744	39	5.2	0.010 - 0.23	0.006 ^	0.5
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	1	0.1	0.12 ^	0.006 - 0.008	0.9
Hot Peppers	186	6	3.2	0.010 - 0.12	0.006 - 0.16	0.7
Lettuce	743	4	0.5	0.006 - 0.017	0.003 ^	5.0
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	NT
Oranges	744	0			0.010 ^	NT
Spinach, Canned	181	0			0.032 ^	5.0
Spinach, Frozen	191	0			0.032 ^	5.0
Sweet Bell Peppers	744	37	5.0	0.008 - 0.37	0.008 ^	0.7
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	6	1.6	0.010 - 0.028	0.006 ^	0.5
TOTAL	**9,580**	**150**				
Diphenamid (herbicide)						
Apples	744	0			0.032 ^	NT
Baby Food - Pears	191	0			0.010 ^	NT
Cantaloupe	371	0			0.050 ^	NT
Cilantro	539	0			0.010 ^	NT
Cucumbers	372	0			0.010 ^	NT
Mangoes	350	0			0.050 ^	NT
Oranges	744	0			0.050 ^	NT
TOTAL	**3,311**	**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
Diphenylamine - DPA (fungicide)						
Apples	744	615	82.7	0.005 - 4.3	0.003 ^	10.0
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	52	27.2	0.005 - 0.022	0.003 ^	10
Baby Food - Sweet Potatoes	191	0			0.012 ^	NT
Black Beans, Canned	367	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro (V-7)	555	7	1.3	0.005 ^	0.003 ^	NT
Cucumbers (V-3)	744	3	0.4	0.005 ^	0.003 - 0.012	NT
Garbanzo Beans, Canned	186	0			0.002 - 0.010	NT
Grapes	373	0			0.012 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Lettuce	743	0			0.002 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.002 ^	NT
Oranges	744	0			0.010 ^	NT
Pears	743	46	6.2	0.070 - 5.6	0.042 ^	10
Sweet Bell Peppers	744	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.012 ^	NT
Sweet Corn, Frozen	14	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**8,743**	**723**				
Disulfoton (insecticide)						
Apples	744	0			0.002 ^	NT
Asparagus	372	0			0.20 ^	0.1
Baby Food - Green Beans	192	0			0.002 ^	0.75
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.030 ^	0.75
Cabbage	743	0			0.046 ^	0.75
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.030 ^	0.75
Grapes	373	0			0.002 ^	NT
Hot Peppers	186	0			0.002 - 0.10	0.1
Lettuce	743	0			0.030 ^	2
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.030 ^	NT
Spinach, Canned	142	0			0.040 ^	0.75
Spinach, Frozen	172	0			0.040 ^	0.75
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
TOTAL	**7,663**	**0**				
Disulfoton oxon (metabolite of Disulfoton)						
Black Beans, Canned	367	0			0.001 ^	0.75
Cabbage	370	0			0.066 ^	0.75
Garbanzo Beans, Canned	186	0			0.001 ^	0.75
Hot Peppers	93	0			0.20 ^	0.1
Lettuce	743	0			0.001 ^	2
Orange Juice	191	0			0.001 ^	NT
Spinach, Canned	102	0			0.20 ^	NT
Spinach, Frozen	172	0			0.20 ^	NT
TOTAL	**2,224**	**0**				
Disulfoton sulfone (metabolite of Disulfoton)						
Apples	744	0			0.006 ^	NT
Asparagus	372	0			0.010 ^	0.1
Baby Food - Green Beans	192	0			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
Baby Food - Pears	191	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.020 ^	0.75
Cabbage	743	1	0.1	0.010 ^	0.002 - 0.006	0.75
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.006 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.020 ^	0.75
Grapes	373	0			0.002 ^	NT
Hot Peppers	186	0			0.002 - 0.080	0.1
Lettuce	743	0			0.020 ^	2
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.020 ^	NT
Oranges	744	0			0.010 ^	NT
Spinach, Canned	181	0			0.020 ^	0.75
Spinach, Frozen	191	0			0.020 ^	0.75
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**8,836**	**1**				
Disulfoton sulfone oxygen analog (metabolite of Disulfoton)						
Hot Peppers	93	0			0.040 ^	0.1
Spinach, Canned	181	0			0.008 ^	0.75
Spinach, Frozen	191	0			0.008 ^	0.75
TOTAL	**465**	**0**				
Disulfoton sulfoxide (metabolite of Disulfoton)						
Asparagus	372	0			0.010 ^	0.1
Black Beans, Canned	367	0			0.005 ^	0.75
Cabbage	743	0			0.001 - 0.003	0.75
Garbanzo Beans, Canned	186	0			0.005 ^	0.75
Hot Peppers	93	0			0.002 ^	0.1
Lettuce	743	0			0.005 ^	2
Orange Juice	191	0			0.005 ^	NT
Spinach, Canned	181	0			0.003 ^	0.75
Spinach, Frozen	191	0			0.003 ^	0.75
TOTAL	**3,067**	**0**				
Disulfoton sulfoxide oxygen analog (metabolite of Disulfoton)						
Cabbage	743	14	1.9	0.002 - 0.013	0.001 - 0.003	0.75
Hot Peppers	93	0			0.008 ^	0.1
Spinach, Canned	181	0			0.008 ^	0.75
Spinach, Frozen	191	0			0.008 ^	0.75
TOTAL	**1,208**	**14**				
Diuron (herbicide)						
Apples	744	0			0.008 ^	0.1
Asparagus	372	0			0.020 ^	7
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Pears	191	0			0.008 ^	1
Baby Food - Sweet Potatoes	191	0			0.012 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cucumbers	744	0			0.008 - 0.012	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	373	0			0.012 ^	0.05
Hot Peppers	93	0			0.012 ^	NT
Lettuce	743	0			0.003 ^	NT
Orange Juice	191	0			0.003 ^	0.05
Sweet Corn, Fresh	480	0			0.012 - 0.020	NT
Sweet Corn, Frozen	73	0			0.012 - 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
Sweet Potatoes	553	0			0.012 ^	NT
Watermelon	371	0			0.012 ^	NT
TOTAL	**5,864**	**0**				
Doramectin (insecticide, acaricide)						
Lettuce	743	0			0.005 - 0.010	NT
TOTAL	**743**	**0**				
Emamectin benzoate (insecticide)						
Apples	744	0			0.001 ^	0.025
Baby Food - Pears	191	0			0.001 ^	0.025
Cilantro	555	0			0.001 ^	NT
Cucumbers	372	0			0.001 ^	NT
Grapes (V-1)	279	1	0.4	0.007 ^	0.001 ^	NT
Lettuce	743	0			0.010 ^	0.100
Sweet Bell Peppers	556	0			0.001 ^	0.020
TOTAL	**3,440**	**1**				
Endosulfan I (insecticide)						
Apples	744	32	4.3	0.010 - 0.31	0.006 ^	1.0
Asparagus	372	0			0.050 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	2.0
Baby Food - Pears	191	0			0.006 ^	2.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.15
Black Beans, Canned	367	0			0.002 ^	2.0
Cabbage	743	0			0.082 ^	4.0
Cantaloupe	371	9	2.4	0.005 - 0.013	0.003 ^	1.0
Cilantro (V-6)	555	6	1.1	0.010 - 0.16	0.006 ^	NT
Cucumbers	744	244	32.8	0.005 - 0.22	0.003 - 0.006	1.0
Garbanzo Beans, Canned	186	0			0.002 ^	2.0
Grapes	745	0			0.003 - 0.040	2.0
Hot Peppers	186	14	7.5	0.010 - 0.083	0.006 - 0.40	2.0
Lettuce	743	43	5.8	0.002 - 0.051	0.002 ^	11.0
Mangoes (V-1)	372	1	0.3	0.005 ^	0.003 ^	NT
Orange Juice	191	0			0.002 ^	NT
Oranges	744	0			0.003 ^	NT
Pears	743	1	0.1	0.008 ^	0.005 ^	2.0
Spinach, Canned	181	0			0.060 ^	2.0
Spinach, Frozen	191	0			0.060 ^	2.0
Sweet Bell Peppers	744	82	11.0	0.004 - 0.30	0.004 ^	2.0
Sweet Corn, Fresh	481	0			0.003 - 0.050	0.2
Sweet Corn, Frozen	73	0			0.003 - 0.050	0.2
Sweet Potatoes	553	0			0.003 ^	0.15
Watermelon	371	0			0.006 ^	1.0
TOTAL	**10,974**	**432**				
Endosulfan II (isomer of Endosulfan)						
Apples	744	60	8.1	0.010 - 0.17	0.006 ^	1.0
Asparagus	372	0			0.050 ^	NT
Baby Food - Green Beans	192	0			0.010 ^	2.0
Baby Food - Pears	191	0			0.006 ^	2.0
Baby Food - Sweet Potatoes	191	0			0.004 ^	0.15
Black Beans, Canned	367	0			0.001 ^	2.0
Cabbage	743	0			0.073 ^	4.0
Cantaloupe	371	3	0.8	0.005 ^	0.003 ^	1.0
Cilantro (V-2)	325	2	0.6	0.051 - 0.19	0.020 - 0.083	NT
Cucumbers	739	187	25.3	0.007 - 0.13	0.004 - 0.006	1.0
Garbanzo Beans, Canned	186	0			0.001 ^	2.0
Grapes	745	0			0.004 - 0.040	2.0
Hot Peppers	186	17	9.1	0.017 - 0.15	0.010 - 0.10	2.0
Lettuce	743	46	6.2	0.001 - 0.031	0.001 ^	11.0
Mangoes	372	0			0.003 ^	NT
Orange Juice	191	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
Oranges	744	0			0.003 ^	NT
Pears	743	15	2.0	0.008 ^	0.005 ^	2.0
Spinach, Canned	181	0			0.030 ^	2.0
Spinach, Frozen	191	0			0.030 ^	2.0
Sweet Bell Peppers	744	55	7.4	0.020 - 0.38	0.020 ^	2.0
Sweet Corn, Fresh	481	0			0.004 - 0.050	0.2
Sweet Corn, Frozen	73	0			0.004 - 0.050	0.2
Sweet Potatoes	553	0			0.004 ^	0.15
Watermelon	371	0			0.003 ^	1.0
TOTAL	**10,739**	**385**				
Endosulfan sulfate (metabolite of Endosulfan)						
Apples	744	14	1.9	0.033 - 0.087	0.020 ^	1.0
Asparagus (V-1)	372	1	0.3	0.050 ^	0.050 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	2.0
Baby Food - Pears	191	0			0.020 ^	2.0
Baby Food - Sweet Potatoes	191	0			0.004 ^	0.15
Black Beans, Canned	367	0			0.003 ^	2.0
Cabbage	743	0			0.035 ^	4.0
Cantaloupe	371	165	44.5	0.005 - 0.064	0.003 ^	1.0
Cucumbers	734	280	38.1	0.007 - 0.16	0.004 - 0.020	1.0
Garbanzo Beans, Canned	186	0			0.003 ^	2.0
Grapes	745	0			0.004 - 0.020	2.0
Hot Peppers	186	28	15.1	0.005 - 0.048	0.003 - 0.40	2.0
Lettuce	743	49	6.6	0.004 - 0.067	0.003 ^	11.0
Mangoes (V-2)	372	2	0.5	0.005 ^	0.003 ^	NT
Orange Juice	191	0			0.003 ^	NT
Oranges	744	0			0.003 ^	NT
Pears	743	2	0.3	0.012 ^	0.007 ^	2.0
Spinach, Canned	181	0			0.060 ^	2.0
Spinach, Frozen	191	0			0.060 ^	2.0
Sweet Bell Peppers	744	126	16.9	0.002 - 0.24	0.002 - 0.010	2.0
Sweet Corn, Fresh	481	0			0.004 - 0.050	0.2
Sweet Corn, Frozen	73	0			0.004 - 0.050	0.2
Sweet Potatoes	553	0			0.004 ^	0.15
Watermelon	371	1	0.3	0.005 ^	0.003 ^	1.0
TOTAL	**10,409**	**668**				
EPN (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Eprinomectin (insecticide) (Acaricide)						
Lettuce	743	0			0.005 ^	NT
TOTAL	**743**	**0**				
EPTC (herbicide)						
Apples	744	0			0.064 ^	NT
Baby Food - Pears	191	0			0.064 ^	NT
Black Beans, Canned	367	0			0.010 ^	0.1
Cilantro	555	0			0.064 ^	NT
Cucumbers	372	0			0.064 ^	NT
Garbanzo Beans, Canned	186	0			0.010 ^	0.1
Grapes	372	0			0.075 ^	0.1
Hot Peppers	93	0			0.008 ^	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
Lettuce	743	0			0.010 ^	0.1
Orange Juice	191	0			0.010 ^	0.1
Spinach, Canned	181	0			0.016 ^	0.1
Spinach, Frozen	191	0			0.016 ^	0.1
Sweet Bell Peppers	744	0			0.075 ^	0.1
TOTAL	**4,930**	**0**				
Esfenvalerate+Fenvalerate Total (insecticide)						
Apples	728	1	0.1	0.052 ^	0.029 - 0.12	2.0
Asparagus	372	0			0.050 ^	0.05
Baby Food - Pears	191	0			0.009 - 0.058	2.0
Black Beans, Canned	367	0			0.002 ^	0.25
Cantaloupe	371	0			0.13 ^	1.0
Cucumbers	372	0			0.029 - 0.12	0.5
Garbanzo Beans, Canned	186	0			0.002 ^	0.25
Hot Peppers	93	0			0.20 ^	1.0
Lettuce	743	1	0.1	0.005 ^	0.002 ^	5.0
Mangoes	371	0			0.13 ^	0.05
Orange Juice	191	0			0.002 ^	0.05
Oranges	744	0			0.13 ^	0.05
Pears	743	0			0.061 ^	2.0
Spinach, Canned	181	0			0.030 ^	0.05
Spinach, Frozen	154	0			0.030 ^	0.05
Sweet Corn, Fresh	220	0			0.050 ^	0.1
Sweet Corn, Frozen	59	0			0.050 ^	0.1
TOTAL	**6,086**	**2**				
Esfenvalerate (isomer of Fenvalerate)						
Baby Food - Sweet Potatoes	191	0			0.015 ^	0.05
Cabbage	743	0			0.082 - 0.085	3.0
Cucumbers	372	0			0.015 ^	0.5
Grapes	745	0			0.015 - 0.035	0.05
Spinach, Frozen	37	0			0.030 ^	0.05
Sweet Bell Peppers	744	11	1.5	0.014 - 0.036	0.014 ^	0.5
Sweet Corn, Fresh	261	0			0.015 ^	0.1
Sweet Corn, Frozen	14	0			0.015 ^	0.1
Sweet Potatoes	553	1	0.2	0.025 ^	0.015 ^	0.05
TOTAL	**3,660**	**12**				
Ethalfluralin (herbicide)						
Apples	744	0			0.017 ^	NT
Asparagus	372	0			0.050 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	0.05
Baby Food - Pears	174	0			0.017 ^	NT
Baby Food - Sweet Potatoes	191	0			0.008 ^	NT
Black Beans, Canned	367	0			0.001 ^	0.05
Cilantro	555	0			0.017 ^	NT
Cucumbers	744	0			0.008 - 0.017	0.05
Garbanzo Beans, Canned	186	0			0.001 ^	0.05
Grapes	373	0			0.008 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Lettuce	743	0			0.001 ^	NT
Orange Juice	191	0			0.001 ^	NT
Sweet Corn, Fresh	481	0			0.008 - 0.050	NT
Sweet Corn, Frozen	73	0			0.008 - 0.050	NT
Sweet Potatoes	553	0			0.008 ^	NT
Watermelon	371	0			0.006 ^	0.05
TOTAL	**6,403**	**0**				
Ethiofencarb (insecticide)						
Apples	700	0			0.050 ^	NT
Baby Food - Pears	191	0			0.015 ^	NT
Cantaloupe	371	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
Cucumbers	326	0			0.015 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
TOTAL	**2,704**	**0**				
Ethion (insecticide)						
Apples	744	0			0.001 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.001 ^	NT
Cucumbers	744	0			0.001 - 0.002	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Bell Peppers	744	0			0.001 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**6,513**	**0**				
Ethion mono oxon (metabolite of Ethion)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**4,282**	**0**				
Ethoprop (insecticide)						
Apples	744	0			0.001 ^	NT
Baby Food - Green Beans	192	0			0.001 ^	0.02
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.001 ^	0.02
Black Beans, Canned	367	0			0.002 ^	NT
Cabbage	743	0			0.044 ^	0.02
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.001 ^	NT
Cucumbers	744	0			0.001 ^	0.02
Garbanzo Beans, Canned	186	0			0.002 ^	NT
Grapes	373	0			0.001 ^	NT
Hot Peppers	93	0			0.001 ^	NT
Lettuce	743	0			0.002 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.002 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	480	0			0.001 - 0.008	0.02
Sweet Corn, Frozen	73	0			0.001 - 0.008	0.02
Sweet Potatoes	553	3	0.5	0.002 ^	0.001 ^	0.02
Watermelon	371	0			0.001 ^	NT
TOTAL	**8,277**	**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
Etoxazole (acaricide)						
Apples	744	24	3.2	0.002 - 0.032	0.001 ^	0.20
Baby Food - Pears	191	0			0.001 ^	0.20
Cilantro	555	0			0.001 - 0.003	NT
Cucumbers	372	0			0.001 ^	0.02
TOTAL	**1,862**	**24**				
Etridiazole (fungicide)						
Sweet Bell Peppers	744	0			0.005 - 0.010	NT
TOTAL	**744**	**0**				
Famoxadone (fungicide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	19	5.1	0.005 - 0.015	0.003 ^	0.30
Grapes	745	1	0.1	0.090 ^	0.003 - 0.033	2.5
Hot Peppers	186	4	2.2	0.005 - 0.16	0.003 - 0.16	4.0
Lettuce	743	18	2.4	0.027 - 3.1	0.025 ^	25
Orange Juice	191	0			0.025 ^	NT
Spinach, Canned	181	1	0.6	0.20 ^	0.060 ^	50
Spinach, Frozen	191	0			0.060 ^	50
Sweet Bell Peppers	744	22	3.0	0.033 - 0.37	0.033 ^	4.0
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	0.30
TOTAL	**4,935**	**65**				
Fenamidone (fungicide)						
Apples	728	0			0.002 - 0.008	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	163	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.02
Black Beans, Canned	367	0			0.005 ^	NT
Cabbage	743	0			0.019 ^	5.0
Cantaloupe	371	0			0.010 ^	0.15
Cilantro	523	5	1.0	0.004 - 0.029	0.002 - 0.008	60
Cucumbers	744	11	1.5	0.004 - 0.005	0.002 - 0.003	0.15
Garbanzo Beans, Canned	186	0			0.005 ^	NT
Grapes	745	0			0.003 - 0.005	1.0
Hot Peppers	186	0			0.001 - 0.003	3.5
Lettuce	743	97	13.1	0.005 - 3.0	0.005 ^	60
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.005 ^	NT
Spinach, Canned	181	0			0.003 ^	60
Spinach, Frozen	191	19	9.9	0.004 - 1.5	0.003 ^	60
Sweet Bell Peppers	744	0			0.004 ^	1.0
Sweet Corn, Fresh	261	0			0.003 ^	0.02
Sweet Corn, Frozen	14	0			0.003 ^	0.02
Sweet Potatoes	553	0			0.003 ^	0.02
Watermelon	371	0			0.003 ^	0.15
TOTAL	**8,760**	**132**				
Fenamiphos (insecticide)						
Apples	744	0			0.002 ^	NT
Asparagus	372	0			0.007 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cabbage	743	0			0.001 - 0.003	NT
Cantaloupe	371	0			0.005 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers (V-2)	744	2	0.3	0.003 - 0.004	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
Grapes	745	0			0.002 ^	0.10
Hot Peppers	186	0			0.001 - 0.002	NT
Mangoes	372	0			0.005 ^	NT
Oranges	744	0			0.005 ^	0.50
Sweet Bell Peppers	744	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**8,093**	**2**				
Fenamiphos sulfone (metabolite of Fenamiphos)						
Apples	744	0			0.004 ^	NT
Asparagus	372	0			0.007 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.004 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cabbage	743	0			0.002 - 0.006	NT
Cantaloupe	371	0			0.005 ^	NT
Cilantro	555	0			0.004 ^	NT
Cucumbers (V-6)	744	6	0.8	0.005 - 0.079	0.003 - 0.004	NT
Grapes	745	0			0.003 - 0.004	0.10
Hot Peppers	186	0			0.002 - 0.003	NT
Mangoes	372	0			0.005 ^	NT
Oranges	744	0			0.005 ^	0.50
Sweet Bell Peppers	744	0			0.004 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**8,093**	**6**				
Fenamiphos sulfoxide (metabolite of Fenamiphos)						
Apples	744	0			0.004 ^	NT
Asparagus	372	0			0.010 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.004 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cabbage	743	0			0.001 - 0.003	NT
Cantaloupe	371	0			0.005 ^	NT
Cilantro	555	0			0.004 ^	NT
Cucumbers (V-7)	744	7	0.9	0.006 - 0.27	0.003 - 0.010	NT
Grapes	745	2	0.3	0.001 - 0.005	0.001 - 0.003	0.10
Hot Peppers	186	0			0.002 - 0.003	NT
Mangoes	372	0			0.005 ^	NT
Oranges	744	0			0.005 ^	0.50
Sweet Bell Peppers	744	0			0.001 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**8,093**	**9**				
Fenarimol (fungicide)						
Apples	744	0			0.010 ^	0.3
Baby Food - Green Beans	192	0			0.008 ^	NT
Baby Food - Pears	191	0			0.010 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.030 - 0.10	NT
Cilantro	555	0			0.010 ^	NT
Cucumbers	744	0			0.030 - 0.032	NT
Grapes	745	1	0.1	0.015 ^	0.015 - 0.030	0.1
Hot Peppers	93	0			0.008 ^	NT
Oranges	744	0			0.025 ^	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
Pears	743	0			0.022 ^	0.1
Sweet Bell Peppers	744	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.030 ^	NT
Sweet Corn, Frozen	14	0			0.030 ^	NT
Sweet Potatoes	553	0			0.030 ^	NT
Watermelon	371	0			0.008 ^	NT
TOTAL	**6,885**	**1**				
Fenazaquin (insecticide, acaricide)						
Orange Juice	191	0			0.005 ^	0.5
Pears	731	0			0.015 ^	0.2
TOTAL	**922**	**0**				
Fenbuconazole (fungicide)						
Apples	744	20	2.7	0.002 - 0.050	0.001 ^	0.4
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cantaloupe	186	0			0.005 ^	NT
Cilantro	555	0			0.001 - 0.003	NT
Cucumbers	744	0			0.001 - 0.006	NT
Grapes	745	0			0.005 - 0.006	1.0
Hot Peppers	186	0			0.004 - 0.006	0.40
Mangoes	186	0			0.005 ^	NT
Orange Juice	191	0			0.005 ^	1.0
Oranges	417	0			0.005 ^	1.0
Sweet Bell Peppers	744	1	0.1	0.015 ^	0.005 ^	0.40
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**6,471**	**21**				
Fenchlorphos (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Fenhexamid (fungicide)						
Apples	744	0			0.010 - 0.064	NT
Baby Food - Pears	191	0			0.010 ^	10
Cilantro	378	0			0.032 - 0.13	30.0
Cucumbers	372	0			0.032 ^	2.0
Grapes	372	91	24.5	0.011 - 2.5	0.011 ^	4.0
Lettuce	743	0			0.013 ^	30.0
Orange Juice	191	0			0.013 ^	NT
Pears	743	0			0.026 ^	10
Sweet Bell Peppers	744	12	1.6	0.013 - 0.15	0.011 ^	2.0
TOTAL	**4,478**	**103**				
Fenitrothion (insecticide)						
Apples	744	0			0.003 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 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
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**3,727**	**0**				
Fenobucarb - BPMC (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Fenpropathrin (insecticide)						
Apples	728	20	2.7	0.026 - 0.29	0.016 - 0.10	5.0
Asparagus	372	0			0.050 ^	NT
Baby Food - Green Beans	192	0			0.009 ^	NT
Baby Food - Pears	191	0			0.016 ^	5.0
Baby Food - Sweet Potatoes	191	0			0.009 ^	NT
Black Beans, Canned	367	0			0.019 ^	NT
Cabbage	743	0			0.030 ^	3.0
Cantaloupe	371	0			0.015 ^	0.5
Cilantro	539	0			0.052 - 0.10	NT
Cucumbers	744	4	0.5	0.015 - 0.026	0.009 - 0.052	0.5
Garbanzo Beans, Canned	186	0			0.019 ^	NT
Grapes	745	36	4.8	0.015 - 0.57	0.009 - 0.020	5.0
Hot Peppers	186	2	1.1	0.015 - 0.068	0.009 - 0.40	1.0
Lettuce	743	0			0.019 - 0.020	NT
Mangoes	371	0			0.015 ^	1.0
Orange Juice	164	0			0.020 ^	2.0
Oranges	682	0			0.015 ^	2.0
Pears	743	0			0.037 ^	5.0
Spinach, Canned	181	0			0.020 ^	NT
Spinach, Frozen	191	0			0.020 ^	NT
Sweet Bell Peppers	744	15	2.0	0.002 - 0.046	0.002 ^	1.0
Sweet Corn, Fresh	481	0			0.009 - 0.10	NT
Sweet Corn, Frozen	73	0			0.009 - 0.10	NT
Sweet Potatoes	553	0			0.009 ^	NT
Watermelon	371	0			0.009 ^	0.5
TOTAL	**10,852**	**77**				
Fenpyroximate (acaricide)						
Apples	744	64	8.6	0.002 - 0.039	0.001 - 0.006	0.40
Baby Food - Pears	191	1	0.5	0.025 ^	0.001 - 0.015	0.40
Cantaloupe	371	0			0.010 ^	0.10
Cilantro	461	0			0.001 - 0.015	NT
Hot Peppers	93	2	2.2	0.005 - 0.007	0.004 ^	0.20
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.005 ^	0.60
Oranges	744	0			0.010 ^	0.60
Pears	743	21	2.8	0.025 - 0.090	0.015 ^	0.40
TOTAL	**3,910**	**88**				
Fensulfothion (insecticide, fumigant)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	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
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Fenthion (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Mangoes	372	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**5,025**	**0**				
Fenvalerate (isomer of Esfenvalerate)						
Baby Food - Green Beans	192	0			0.015 ^	2.0
Baby Food - Sweet Potatoes	191	0			0.015 ^	0.05
Cabbage	743	0			0.089 ^	10.0
Cucumbers	372	0			0.015 ^	0.5
Grapes	373	0			0.015 ^	0.05
Hot Peppers	93	0			0.015 ^	1.0
Sweet Corn, Fresh	261	0			0.015 ^	0.1
Sweet Corn, Frozen	14	0			0.015 ^	0.1
Sweet Potatoes	553	0			0.015 ^	0.05
Watermelon	371	0			0.015 ^	1.0
TOTAL	**3,163**	**0**				
Fipronil (insecticide)						
Baby Food - Pears	191	0			0.003 - 0.010	NT
TOTAL	**191**	**0**				
Flonicamid (insecticide)						
Apples	744	12	1.6	0.002 - 0.014	0.001 ^	0.20
Baby Food - Green Beans	192	0			0.018 ^	NT
Baby Food - Pears	191	0			0.001 ^	0.20
Baby Food - Sweet Potatoes	191	0			0.018 ^	0.20
Cabbage	743	5	0.7	0.002 - 0.032	0.001 - 0.003	1.5
Cantaloupe	371	0			0.010 ^	0.40
Cilantro (V-3)	555	3	0.5	0.002 ^	0.001 ^	NT
Cucumbers	744	51	6.9	0.002 - 0.16	0.001 - 0.018	0.40
Grapes	373	0			0.018 ^	NT
Hot Peppers	186	1	0.5	0.030 ^	0.008 - 0.018	0.40
Lettuce	743	32	4.3	0.006 - 1.2	0.006 ^	4.0
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.006 ^	NT
Pears	743	0			0.010 ^	0.20
Spinach, Canned	181	7	3.9	0.053 - 0.10	0.020 ^	9.0
Spinach, Frozen	191	3	1.6	0.25 - 0.62	0.020 ^	9.0
Sweet Corn, Fresh	261	0			0.018 ^	NT
Sweet Corn, Frozen	14	0			0.018 ^	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 Potatoes	553	0			0.018 ^	0.20
Watermelon	371	0			0.018 ^	0.40
TOTAL	**7,910**	**114**				
Fluazifop butyl (herbicide)						
Apples	744	0			0.001 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Cilantro	555	0			0.001 ^	NT
Cucumbers	372	0			0.001 ^	NT
Hot Peppers	93	0			0.004 ^	NT
TOTAL	**1,955**	**0**				
Flubendiamide (insecticide)						
Hot Peppers	93	7	7.5	0.001 - 0.012	0.001 ^	0.60
Lettuce	743	1	0.1	0.18 ^	0.035 ^	11
Orange Juice	191	0			0.035 ^	NT
Spinach, Canned	181	0			0.003 ^	11
Spinach, Frozen	191	3	1.6	0.12 - 1.9	0.003 ^	11
TOTAL	**1,399**	**11**				
Fludioxonil (fungicide)						
Apples	744	99	13.3	0.020 - 1.2	0.012 - 0.040	5.0
Baby Food - Green Beans	192	0			0.006 ^	0.4
Baby Food - Pears	191	2	1.0	0.020 - 0.085	0.012 ^	5.0
Baby Food - Sweet Potatoes	191	0			0.006 ^	3.5
Black Beans, Canned	367	0			0.050 ^	0.4
Cabbage	743	0			0.002 - 0.006	2.0
Cantaloupe	371	0			0.010 ^	0.03
Cilantro	555	0			0.040 ^	10
Cucumbers	744	3	0.4	0.020 - 0.12	0.006 - 0.012	0.45
Garbanzo Beans, Canned	186	0			0.050 - 0.055	0.4
Grapes	745	74	9.9	0.010 - 0.29	0.006 - 0.010	1.0
Hot Peppers	186	0			0.006 - 0.090	0.01
Lettuce	743	0			0.050 ^	30
Mangoes	372	0			0.010 ^	0.45
Orange Juice	191	0			0.050 ^	10
Oranges	744	1	0.1	0.015 ^	0.010 ^	10
Pears	743	167	22.5	0.025 - 1.4	0.015 ^	5.0
Spinach, Canned	181	0			0.020 ^	0.01
Spinach, Frozen	191	0			0.020 ^	0.01
Sweet Bell Peppers (X-2)	744	2	0.3	0.055 - 0.059	0.010 ^	0.01
Sweet Corn, Fresh	481	0			0.006 - 0.050	0.02
Sweet Corn, Frozen	73	0			0.006 - 0.050	0.02
Sweet Potatoes	553	5	0.9	0.010 - 0.079	0.006 ^	3.5
Watermelon	371	0			0.006 ^	0.03
TOTAL	**10,602**	**353**				
Flufenacet (herbicide)						
Sweet Corn, Fresh	220	0			0.040 ^	0.05
Sweet Corn, Frozen	59	0			0.040 ^	0.05
TOTAL	**279**	**0**				
Flufenoxuron (insecticide)						
Orange Juice	191	0			0.002 ^	0.30
TOTAL	**191**	**0**				
Flumioxazin (herbicide)						
Grapes	372	0			0.055 ^	0.02
Hot Peppers	93	0			0.20 ^	0.02
Pears	743	0			0.14 ^	0.02
Sweet Bell Peppers	744	0			0.055 ^	0.02
TOTAL	**1,952**	**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
Fluopicolide (fungicide)						
Hot Peppers	93	5	5.4	0.004 - 0.033	0.004 ^	1.60
Lettuce	743	12	1.6	0.040 - 0.64	0.030 ^	25
Orange Juice	191	0			0.030 ^	NT
Spinach, Canned	181	1	0.6	0.012 ^	0.008 ^	25
Spinach, Frozen	191	25	13.1	0.012 - 2.4	0.008 ^	25
TOTAL	**1,399**	**43**				
Fluoxastrobin (fungicide)						
Apples	744	0			0.001 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Cantaloupe	371	0			0.002 ^	NT
Cilantro	555	0			0.001 - 0.004	NT
Cucumbers	372	0			0.001 ^	0.50
Grapes	372	0			0.025 ^	NT
Hot Peppers	93	0			0.008 ^	1.0
Mangoes	372	0			0.002 ^	NT
Oranges	744	0			0.002 ^	NT
Sweet Bell Peppers	744	0			0.025 ^	1.0
TOTAL	**4,558**	**0**				
Fluridone (herbicide)						
Asparagus	372	0			0.050 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.1
Black Beans, Canned	367	0			0.001 ^	0.1
Cabbage	743	0			0.001 - 0.003	0.1
Cantaloupe	371	0			0.010 ^	0.1
Cucumbers	372	0			0.002 ^	0.1
Garbanzo Beans, Canned	186	0			0.001 ^	0.1
Grapes	745	0			0.001 - 0.002	0.1
Hot Peppers	186	0			0.001 - 0.002	0.1
Lettuce	743	0			0.001 ^	0.1
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.001 ^	0.1
Oranges	744	0			0.010 ^	0.1
Spinach, Canned	181	0			0.002 ^	0.1
Spinach, Frozen	191	0			0.002 ^	0.1
Sweet Bell Peppers	744	0			0.001 ^	0.1
Sweet Corn, Fresh	481	0			0.002 - 0.050	0.1
Sweet Corn, Frozen	73	0			0.002 - 0.050	0.1
Sweet Potatoes	553	0			0.002 ^	0.1
Watermelon	371	0			0.002 ^	0.1
TOTAL	**8,369**	**0**				
Flutolanil (fungicide)						
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cucumbers	372	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Lettuce	743	0			0.003 ^	NT
Orange Juice	191	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**3,907**	**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
Fluvalinate (insecticide)						
Asparagus	372	0			0.12 ^	NT
Baby Food - Green Beans	192	0			0.015 ^	NT
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Black Beans, Canned	367	0			0.010 ^	NT
Cabbage	743	0			0.063 - 0.075	NT
Cantaloupe	371	0			0.015 - 0.030	NT
Cucumbers	372	0			0.015 ^	NT
Garbanzo Beans, Canned	186	0			0.010 ^	NT
Grapes	745	0			0.015 - 0.035	NT
Hot Peppers	186	0			0.015 - 0.20	NT
Lettuce	743	0			0.010 ^	NT
Mangoes	371	0			0.015 - 0.030	NT
Orange Juice	191	0			0.010 ^	NT
Spinach, Canned	181	0			0.10 ^	NT
Spinach, Frozen	191	0			0.10 ^	NT
Sweet Bell Peppers	744	0			0.004 ^	NT
Sweet Corn, Fresh	481	0			0.015 - 0.12	NT
Sweet Corn, Frozen	73	0			0.015 - 0.12	NT
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.015 ^	NT
TOTAL	**7,624**	**0**				
Folpet (fungicide)						
Grapes	372	0			0.030 ^	50.0
Lettuce	743	0			0.030 ^	50.0
Orange Juice	191	0			0.030 ^	NT
TOTAL	**1,306**	**0**				
Fonofos (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	0.1
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.1
Black Beans, Canned	367	0			0.010 ^	0.1
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.010 ^	0.1
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	0.1
Lettuce	743	0			0.010 ^	0.1
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	0.1
Sweet Corn, Frozen	14	0			0.002 ^	0.1
Sweet Potatoes	553	0			0.002 ^	0.1
Watermelon	371	0			0.002 ^	NT
TOTAL	**6,512**	**0**				
Forchlorfenuron (plant growth regulator)						
Pears	743	0			0.015 ^	0.01
TOTAL	**743**	**0**				
Formetanate hydrochloride (insecticide)						
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cucumbers	372	0			0.006 ^	NT
Grapes	745	0			0.005 - 0.006	NT
Hot Peppers	93	0			0.006 ^	NT
Oranges	739	43	5.8	0.0002 - 0.002	0.0001 ^	1.5
Sweet Bell Peppers	744	0			0.005 ^	NT
Sweet Corn, Fresh	261	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
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**4,275**	**43**				
Halosulfuron (herbicide)						
Hot Peppers	93	0			0.004 ^	0.05
Sweet Bell Peppers	744	0			0.025 ^	0.05
TOTAL	**837**	**0**				
Halosulfuron methyl (herbicide)						
Cantaloupe	371	0			0.010 ^	0.1
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
TOTAL	**1,487**	**0**				
Hexaconazole (fungicide)						
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Sweet Potatoes	191	0			0.012 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cucumbers	372	0			0.012 ^	NT
Grapes	373	0			0.012 ^	NT
Hot Peppers	93	0			0.012 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	261				0.012 ^	NT
Sweet Corn, Frozen	14	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	NT
Watermelon	371	0			0.012 ^	NT
TOTAL	**3,907**	**0**				
Hexythiazox (insecticide, acaricide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	745	4	0.5	0.005 - 0.42	0.003 - 0.006	1.0
Hot Peppers	93	0			0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.002 ^	0.35
Pears	693	1	0.1	0.025 ^	0.015 ^	0.25
Sweet Bell Peppers	744	0			0.006 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	0.02
Sweet Corn, Frozen	14	0			0.003 ^	0.02
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**5,163**	**5**				
Hydroprene (insect growth regulator)						
Apples	744	0			0.013 ^	0.2
Asparagus	332	0			0.030 ^	0.2
Baby Food - Pears	191	0			0.013 ^	0.2
Cabbage	743	0			0.034 ^	0.2
Cilantro	555	0			0.013 ^	0.2
Cucumbers	372	0			0.013 ^	0.2
Spinach, Canned	159	0			0.020 ^	0.2
Spinach, Frozen	191	0			0.020 ^	0.2
TOTAL	**3,287**	**0**				
3-Hydroxycarbofuran (metabolite of Carbofuran)						
Apples	744	0			0.002 - 0.005	NT
Asparagus	372	0			0.010 ^	NT
Baby Food - Green Beans	192	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
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cabbage	743	0			0.002 - 0.006	NT
Cantaloupe	371	0			0.010 ^	0.4
Cilantro (V-3)	555	3	0.5	0.003 - 0.029	0.002 - 0.010	NT
Cucumbers	744	0			0.002 - 0.010	0.4
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	0			0.001 - 0.006	0.4
Hot Peppers	186	0			0.004 - 0.006	1
Lettuce	743	0			0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	NT
Oranges	744	0			0.010 ^	NT
Pears	743	0			0.018 ^	NT
Spinach, Canned	181	0			0.016 ^	NT
Spinach, Frozen	191	0			0.016 ^	NT
Sweet Bell Peppers	744	1	0.1	0.005 ^	0.001 ^	1
Sweet Corn, Fresh	480	0			0.006 - 0.010	1.0
Sweet Corn, Frozen	73	0			0.006 - 0.010	1.0
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	0.4
TOTAL	**10,973**	**4**				
5-Hydroxythiabendazole (metabolite of Thiabendazole)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.05
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	0.05
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Imazalil (fungicide)						
Apples (V-4)	744	4	0.5	0.016 - 0.11	0.010 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	175	0			0.010 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.010 ^	NT
Cucumbers	744	0			0.003 - 0.010	NT
Grapes	745	0			0.003 - 0.005	NT
Hot Peppers	93	0			0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	6	3.1	0.011 - 0.032	0.010 ^	10.0
Oranges	744	515	69.2	0.010 - 0.25	0.010 ^	10.0
Sweet Bell Peppers	744	0			0.005 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**7,060**	**525**				
Imazethapyr (herbicide)						
Lettuce	743	0			0.020 ^	0.1
Orange Juice	191	0			0.020 ^	NT
TOTAL	**934**	**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
Imidacloprid (insecticide)						
Apples	744	151	20.3	0.002 - 0.025	0.001 ^	0.5
Baby Food - Green Beans	192	0			0.006 ^	4.0
Baby Food - Pears	191	0			0.001 ^	0.6
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.40
Black Beans, Canned	367	0			0.003 ^	4.0
Cabbage	743	60	8.1	0.003 - 0.040	0.002 - 0.006	3.5
Cantaloupe	371	31	8.4	0.010 - 0.058	0.010 ^	0.5
Cilantro	555	179	32.3	0.002 - 1.1	0.001 ^	8.0
Cucumbers	744	24	3.2	0.002 - 0.011	0.001 - 0.006	0.5
Garbanzo Beans, Canned	186	0			0.003 ^	4.0
Grapes (X-2)	745	357	47.9	0.004 - 2.3	0.004 - 0.006	1.0
Hot Peppers	186	18	9.7	0.010 - 0.32	0.006 - 0.040	1.0
Lettuce	742	272	36.7	0.003 - 0.19	0.003 - 0.006	3.5
Mangoes	372	1	0.3	0.018 ^	0.010 ^	1.0
Orange Juice	191	0			0.003 ^	0.70
Oranges	744	15	2.0	0.010 - 0.061	0.010 ^	0.70
Pears	743	28	3.8	0.025 - 0.14	0.015 ^	0.6
Spinach, Canned	181	13	7.2	0.034 - 0.12	0.032 ^	3.5
Spinach, Frozen	191	6	3.1	0.032 - 0.11	0.032 ^	3.5
Sweet Bell Peppers	744	277	37.2	0.004 - 0.29	0.004 ^	1.0
Sweet Corn, Fresh	261	0			0.006 ^	0.05
Sweet Corn, Frozen	14	0			0.006 ^	0.05
Sweet Potatoes	553	0			0.006 ^	0.40
Watermelon	371	41	11.1	0.010 - 0.031	0.006 ^	0.5
TOTAL	**10,322**	**1,473**				
Imidacloprid urea (metabolite of Imidacloprid)						
Grapes	372	3	0.8	0.014 - 0.027	0.011 ^	1.0
Sweet Bell Peppers	744	0			0.011 ^	1.0
Sweet Corn, Fresh	219	0			0.020 ^	0.05
Sweet Corn, Frozen	59	0			0.020 ^	0.05
TOTAL	**1,394**	**3**				
Imiprothrin (insecticide)						
Asparagus	372	0			0.040 ^	NT
Baby Food - Green Beans	192	0			0.030 ^	NT
Baby Food - Sweet Potatoes	191	0			0.030 ^	NT
Black Beans, Canned	367	0			0.010 ^	NT
Cabbage	743	0			0.002 - 0.006	NT
Cucumbers	372	0			0.030 ^	NT
Garbanzo Beans, Canned	186	0			0.010 ^	NT
Grapes	745	0			0.030 - 0.061	NT
Hot Peppers	93	0			0.030 ^	NT
Lettuce	743	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	NT
Spinach, Canned	181	0			0.030 ^	NT
Spinach, Frozen	191	0			0.030 ^	NT
Sweet Bell Peppers	744	0			0.047 ^	NT
Sweet Corn, Fresh	481	0			0.030 - 0.040	NT
Sweet Corn, Frozen	73	0			0.030 - 0.040	NT
Sweet Potatoes	553	0			0.030 ^	NT
Watermelon	371	0			0.030 ^	NT
TOTAL	**6,789**	**0**				
Indoxacarb (insecticide)						
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.01
Black Beans, Canned	367	0			0.010 ^	NT
Cabbage	743	0			0.002 - 0.006	12
Cantaloupe	371	0			0.010 ^	0.60
Cucumbers	372	0			0.006 ^	0.60
Garbanzo Beans, Canned	186	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
Grapes	745	13	1.7	0.010 - 0.064	0.006 - 0.021	2.0
Hot Peppers	186	12	6.5	0.004 - 0.060	0.004 - 0.006	0.50
Lettuce	713	2	0.3	0.043 - 0.10	0.010 - 0.020	14
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.020 ^	NT
Oranges	744	0			0.010 ^	NT
Pears	743	2	0.3	0.025 ^	0.015 ^	0.20
Spinach, Canned	181	0			0.008 ^	14
Spinach, Frozen	191	2	1.0	0.025 - 0.027	0.008 ^	14
Sweet Bell Peppers	744	4	0.5	0.022 - 0.041	0.021 ^	0.50
Sweet Corn, Fresh	481	0			0.006 - 0.040	0.02
Sweet Corn, Frozen	73	0			0.006 - 0.040	0.02
Sweet Potatoes	553	0			0.006 ^	0.01
Watermelon	371	0			0.006 ^	0.60
TOTAL	**8,710**	**35**				
Iprodione (fungicide)						
Apples	744	0			0.028 ^	NT
Baby Food - Green Beans	192	0			0.010 ^	2.0
Baby Food - Pears (V-3)	191	3	1.6	0.014 - 0.21	0.008 ^	NT
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Black Beans, Canned	367	0			0.021 ^	2.0
Cucumbers (V-1)	744	1	0.1	0.025 ^	0.008 - 0.028	NT
Garbanzo Beans, Canned	186	0			0.021 ^	2.0
Grapes	745	93	12.5	0.025 - 1.2	0.015 - 0.025	60.0
Hot Peppers	93	0			0.010 ^	NT
Lettuce	743	7	0.9	0.029 - 2.5	0.021 - 0.022	25.0
Orange Juice	191	0			0.022 ^	NT
Pears (V-6)	743	6	0.8	0.077 - 0.41	0.046 ^	NT
Sweet Corn, Fresh	261	0			0.015 ^	NT
Sweet Corn, Frozen	14	0			0.015 ^	NT
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.010 ^	NT
TOTAL	**6,329**	**110**				
Iprovalicarb (fungicide)						
Grapes	372	0			0.002 ^	2.0
Sweet Bell Peppers	744	0			0.002 ^	NT
TOTAL	**1,116**	**0**				
Isofenphos (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Isoprocarb (insecticide)						
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cucumbers	372	0			0.006 ^	NT
Grapes	373	0			0.006 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**2,420**	**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
Ivermectin (insecticide, acaricide)						
Lettuce	742	0			0.005 ^	NT
TOTAL	**742**	**0**				
Kresoxim-methyl (fungicide)						
Apples	744	0			0.003 - 0.010	0.5
Baby Food - Pears	191	0			0.003 - 0.010	0.5
Cilantro	555	0			0.003 - 0.010	NT
Cucumbers	372	0			0.003 - 0.010	0.40
Grapes	372	17	4.6	0.008 - 0.057	0.008 ^	1.0
Pears	731	1	0.1	0.067 ^	0.040 ^	0.5
Sweet Bell Peppers	744	0			0.008 ^	NT
TOTAL	**3,709**	**18**				
Lactofen (herbicide)						
Hot Peppers	93	0			0.32 ^	0.02
TOTAL	**93**	**0**				
Lindane - BHC gamma (insecticide)						
Apples	744	0			0.003 ^	NT
Asparagus	372	0			0.040 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	0.5 AL
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.5 AL
Black Beans, Canned	367	0			0.013 ^	0.5 AL
Cantaloupe	371	0			0.003 ^	NT
Cilantro	402	0			0.010 - 0.064	NT
Cucumbers	744	0			0.002 - 0.003	NT
Garbanzo Beans, Canned	186	0			0.013 ^	0.5 AL
Grapes	745	0			0.002 - 0.021	0.5 AL
Hot Peppers	93	0			0.002 ^	NT
Lettuce	743	0			0.013 ^	NT
Mangoes	372	0			0.003 ^	NT
Orange Juice	191	0			0.013 ^	0.5 AL
Oranges	744	0			0.003 ^	0.5 AL
Sweet Corn, Fresh	481	0			0.002 - 0.040	0.5 AL
Sweet Corn, Frozen	73	0			0.002 - 0.040	0.5 AL
Sweet Potatoes	553	0			0.002 ^	0.5 AL
Watermelon	371	0			0.002 ^	NT
TOTAL	**8,126**	**0**				
Linuron (herbicide)						
Apples	744	0			0.003 ^	NT
Asparagus	372	5	1.3	0.023 - 0.23	0.020 ^	7.0
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cilantro (V-76)	555	76	13.7	0.010 - 0.94	0.010 ^	NT
Cucumbers	744	0			0.003 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	373	0			0.006 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Lettuce (V-1)	743	1	0.1	0.005 ^	0.003 ^	NT
Orange Juice	191	0			0.003 ^	NT
Sweet Corn, Fresh	480	0			0.006 - 0.040	0.25
Sweet Corn, Frozen	73	0			0.006 - 0.040	0.25
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**6,419**	**82**				

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
Malathion (insecticide)						
Apples	744	0			0.003 ^	8
Asparagus	372	0			0.010 ^	8
Baby Food - Green Beans	192	0			0.002 ^	8
Baby Food - Pears	191	0			0.003 ^	8
Baby Food - Sweet Potatoes	191	0			0.002 ^	1
Black Beans, Canned	367	0			0.002 ^	8
Cabbage	743	0			0.021 ^	8
Cantaloupe	371	0			0.010 ^	8
Cilantro (V-36)	555	36	6.5	0.005 - 0.23	0.003 ^	NT
Cucumbers	744	0			0.002 - 0.003	8
Garbanzo Beans, Canned	186	0			0.002 ^	8
Grapes	745	0			0.002 - 0.005	8
Hot Peppers	186	2	1.1	0.004 - 0.014	0.002 ^	8
Lettuce	743	0			0.002 ^	8
Mangoes	372	1	0.3	0.013 ^	0.010 ^	8
Orange Juice	191	0			0.002 ^	8
Oranges	744	0			0.010 ^	8
Pears	743	0			0.003 ^	8
Spinach, Canned	181	0			0.008 ^	8
Spinach, Frozen	191	0			0.008 ^	8
Sweet Bell Peppers	744	3	0.4	0.008 - 0.015	0.005 ^	8
Sweet Corn, Fresh	480	0			0.002 - 0.010	2
Sweet Corn, Frozen	73	0			0.002 - 0.010	2
Sweet Potatoes	553	0			0.002 ^	1
Watermelon	371	0			0.002 ^	8
TOTAL	**10,973**	**42**				
Malathion oxygen analog (metabolite of Malathion)						
Apples	744	0			0.003 ^	8
Asparagus	372	0			0.010 ^	8
Baby Food - Green Beans	192	0			0.002 ^	8
Baby Food - Pears	191	0			0.003 ^	8
Baby Food - Sweet Potatoes	191	0			0.002 ^	1
Black Beans, Canned	367	0			0.002 ^	8
Cabbage	354	0			0.10 ^	8
Cantaloupe	371	0			0.010 ^	8
Cilantro	555	0			0.003 ^	NT
Cucumbers	744	0			0.002 - 0.003	8
Garbanzo Beans, Canned	186	0			0.002 ^	8
Grapes	745	0			0.002 - 0.003	8
Hot Peppers	186	0			0.001 - 0.002	8
Lettuce	743	0			0.002 ^	8
Mangoes	372	0			0.010 ^	8
Orange Juice	191	0			0.002 ^	8
Oranges	744	0			0.010 ^	8
Pears	743	0			0.019 ^	8
Spinach, Canned	181	0			0.002 ^	8
Spinach, Frozen	191	0			0.002 ^	8
Sweet Bell Peppers	744	0			0.003 ^	8
Sweet Corn, Fresh	480	0			0.002 - 0.010	2
Sweet Corn, Frozen	73	0			0.002 - 0.010	2
Sweet Potatoes	553	0			0.002 ^	1
Watermelon	371	0			0.002 ^	8
TOTAL	**10,584**	**0**				
Mandipropamide (fungicide)						
Apples	744	0			0.005 - 0.015	NT
Baby Food - Pears	191	0			0.005 - 0.015	NT
Cabbage	743	0			0.001 - 0.003	3
Cantaloupe	371	0			0.005 ^	0.6
Cilantro (V-8)	555	8	1.4	0.008 - 0.043	0.005 ^	NT
Cucumbers	372	6	1.6	0.008 - 0.049	0.005 ^	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
Grapes	372	0			0.020 ^	1.4
Hot Peppers	93	2	2.2	0.002 - 0.005	0.001 ^	1.0
Lettuce	743	228	30.7	0.002 - 3.4	0.002 ^	20
Mangoes	372	0			0.005 ^	NT
Orange Juice	191	0			0.002 ^	NT
Spinach, Canned	181	0			0.003 ^	20
Spinach, Frozen	191	71	37.2	0.003 - 9.7	0.003 ^	20
Sweet Bell Peppers	744	4	0.5	0.029 - 0.084	0.020 ^	1.0
TOTAL	**5,863**	**319**				
Metalaxyl (fungicide)						
Apples	744	0			0.006 ^	0.2
Asparagus	372	0			0.015 ^	7.0
Baby Food - Green Beans	192	0			0.002 ^	0.2
Baby Food - Pears	191	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.5
Black Beans, Canned	367	0			0.001 ^	0.2
Cabbage	743	0			0.020 - 0.067	1.0
Cantaloupe	371	12	3.2	0.015 - 0.033	0.015 ^	1.0
Cilantro (V-7)	555	7	1.3	0.010 - 0.076	0.006 ^	NT
Cucumbers	744	230	30.9	0.003 - 0.41	0.002 - 0.006	1.0
Garbanzo Beans, Canned	186	0			0.001 ^	0.2
Grapes	745	1	0.1	0.009 ^	0.002 - 0.022	2.0
Hot Peppers	186	15	8.1	0.003 - 0.095	0.002 - 0.050	1.0
Lettuce	743	61	8.2	0.001 - 0.12	0.001 ^	5.0
Mangoes	371	0			0.015 ^	NT
Orange Juice	191	0			0.001 ^	1.0
Oranges	744	0			0.015 ^	1.0
Spinach, Canned	181	0			0.020 ^	10.0
Spinach, Frozen	191	0			0.020 ^	10.0
Sweet Bell Peppers	744	106	14.2	0.009 - 0.17	0.009 ^	1.0
Sweet Corn, Fresh	481	0			0.002 - 0.015	0.1
Sweet Corn, Frozen	73	0			0.002 - 0.015	0.1
Sweet Potatoes	553	0			0.002 ^	0.5
Watermelon	371	33	8.9	0.003 - 0.027	0.002 ^	1.0
TOTAL	**10,230**	**465**				
Metaldehyde (molluscicide)						
Cantaloupe	350	0			0.010 ^	NT
Mangoes	372	0			0.010 ^	NT
TOTAL	**722**	**0**				
Methamidophos (insecticide) (also a metabolite of Acephate)						
Apples	744	0			0.001 ^	0.02
Baby Food - Green Beans	192	18	9.4	0.002 - 0.13	0.001 ^	3.0
Baby Food - Pears	191	0			0.001 ^	0.02
Baby Food - Sweet Potatoes	191	0			0.001 ^	0.02
Black Beans, Canned	367	0			0.005 ^	3.0
Cabbage	743	1	0.1	0.005 ^	0.003 - 0.009	1.0
Cantaloupe	371	0			0.010 ^	0.5
Cilantro	555	8	1.4	0.002 - 0.16	0.001 ^	0.02
Cucumbers	744	24	3.2	0.002 - 0.41	0.001 ^	1.0
Garbanzo Beans, Canned	186	0			0.005 ^	3.0
Grapes	745	23	3.1	0.002 - 0.013	0.001 - 0.002	0.02
Hot Peppers	186	24	12.9	0.002 - 0.85	0.001 - 0.016	4.0
Lettuce	743	2	0.3	0.006 - 0.007	0.005 ^	10
Mangoes	372	0			0.010 ^	0.02
Orange Juice	191	0			0.005 ^	0.02
Oranges	744	0			0.010 ^	0.02
Sweet Bell Peppers	744	141	19.0	0.002 - 0.44	0.002 ^	4.0
Sweet Corn, Fresh	261	3	1.1	0.002 - 0.005	0.001 ^	0.02
Sweet Corn, Frozen	14	0			0.001 ^	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 Potatoes	553	1	0.2	0.002 ^	0.001 ^	0.02
Watermelon	371	3	0.8	0.025 - 0.050	0.001 ^	0.5
TOTAL	**9,208**	**248**				
Methidathion (insecticide)						
Apples	744	0			0.002 ^	0.05
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	0.05
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Grapes	745	0			0.002 - 0.005	NT
Hot Peppers	93	0			0.002 ^	NT
Mangoes	372	0			0.010 ^	0.05
Oranges	744	0			0.010 ^	4.0
Pears (X-1)	743	4	0.5	0.005 - 0.068	0.003 ^	0.05
Sweet Bell Peppers	744	0			0.005 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**7,628**	**4**				
Methidathion oxygen analog (metabolite of Methidathion)						
Apples	744	0			0.003 ^	0.05
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.003 ^	0.05
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cilantro	555	0			0.003 ^	NT
Cucumbers	744	0			0.003 - 0.010	NT
Grapes	373	0			0.006 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**4,282**	**0**				
Methiocarb (insecticide) (analyzed as sulfoxide)						
Apples	744	0			0.003 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cucumbers	744	0			0.001 - 0.006	NT
Grapes	373	0			0.006 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Mangoes	372	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**4,470**	**0**				
Methomyl (insecticide)						
Apples	744	0			0.002 - 0.008	1
Asparagus	372	16	4.3	0.010 - 1.8	0.010 ^	2
Baby Food - Green Beans	192	0			0.012 ^	2
Baby Food - Pears	191	0			0.002 - 0.008	4
Baby Food - Sweet Potatoes	191	0			0.012 ^	0.2
Black Beans, Canned	367	0			0.010 ^	2
Cabbage	743	14	1.9	0.003 - 0.030	0.001 - 0.003	5

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
Cantaloupe	371	37	10.0	0.010 - 0.17	0.010 ^	0.2
Cilantro (V-2)	555	2	0.4	0.79 - 8.4	0.002 - 0.008	NT
Cucumbers	744	16	2.2	0.004 - 0.11	0.002 - 0.012	0.2
Garbanzo Beans, Canned	186	0			0.010 ^	2
Grapes	745	20	2.7	0.016 - 0.63	0.012 - 0.013	5
Hot Peppers	186	8	4.3	0.020 - 0.071	0.012 - 0.040	2
Lettuce	743	50	6.7	0.010 - 0.49	0.010 ^	5
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	2
Oranges	702	1	0.1	0.010 ^	0.010 ^	2
Pears	743	0			0.010 ^	4
Spinach, Canned	181	0			0.010 ^	6
Spinach, Frozen	191	0			0.010 ^	6
Sweet Bell Peppers	744	42	5.6	0.014 - 0.39	0.013 ^	2
Sweet Corn, Fresh	480	0			0.010 - 0.012	0.1
Sweet Corn, Frozen	73	0			0.010 - 0.012	0.1
Sweet Potatoes	553	0			0.012 ^	0.2
Watermelon	371	14	3.8	0.020 - 0.040	0.012 ^	0.2
TOTAL	**10,931**	**220**				
Methoprene (insect growth regulator)						
Apples	744	0			0.014 - 0.048	EX
Baby Food - Pears	191	0			0.014 ^	EX
Cilantro	555	0			0.048 ^	EX
Cucumbers	372	0			0.014 - 0.048	EX
TOTAL	**1,862**	**0**				
Methoxychlor Total (insecticide)						
Apples	714	0			0.002 - 0.013	NT
Baby Food - Pears	191	0			0.002 ^	NT
Cilantro	539	0			0.006 ^	NT
Cucumbers	372	0			0.002 - 0.013	NT
Grapes	372	0			0.038 ^	NT
TOTAL	**2,188**	**0**				
Methoxychlor olefin (metabolite of Methoxychlor)						
Apples (V-1)	744	1	0.1	0.002 ^	0.001 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Cilantro	555	0			0.001 ^	NT
Cucumbers	372	0			0.001 - 0.003	NT
TOTAL	**1,862**	**1**				
Methoxychlor p,p' (isomer of Methoxychlor)						
Baby Food - Green Beans	192	0			0.008 ^	NT
Baby Food - Sweet Potatoes	191	0			0.012 ^	NT
Cucumbers	372	0			0.012 ^	NT
Grapes	373	0			0.012 ^	NT
Hot Peppers	93	0			0.008 ^	NT
Oranges	682	0			0.025 ^	NT
Sweet Corn, Fresh	261	0			0.012 ^	NT
Sweet Corn, Frozen	14	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	NT
Watermelon	371	0			0.008 ^	NT
TOTAL	**3,102**	**0**				
Methoxyfenozide (insecticide)						
Apples	744	118	15.9	0.002 - 0.11	0.001 ^	1.5
Baby Food - Green Beans	192	0			0.003 ^	1.5
Baby Food - Pears	191	115	60.2	0.002 - 0.026	0.001 ^	1.5
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.02
Black Beans, Canned	367	0			0.003 ^	0.2
Cabbage	743	0			0.001 - 0.003	7.0

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
Cantaloupe	371	0			0.010 ^	0.3
Cilantro	555	6	1.1	0.003 - 0.32	0.003 ^	30
Cucumbers	744	27	3.6	0.002 - 0.016	0.001 - 0.003	0.3
Garbanzo Beans, Canned	186	0			0.003 ^	0.2
Grapes	745	111	14.9	0.005 - 0.28	0.003 - 0.006	1.0
Hot Peppers	186	13	7.0	0.005 - 0.060	0.003 - 0.016	2.0
Lettuce	743	57	7.7	0.003 - 1.5	0.003 ^	30
Mangoes	372	0			0.010 ^	0.6
Orange Juice	191	0			0.003 ^	10
Oranges	744	0			0.010 ^	10
Pears	743	17	2.3	0.025 - 0.061	0.015 ^	1.5
Spinach, Canned	181	4	2.2	0.097 - 1.0	0.016 ^	30
Spinach, Frozen	191	24	12.6	0.020 - 7.8	0.016 ^	30
Sweet Bell Peppers	744	50	6.7	0.006 - 0.035	0.006 ^	2.0
Sweet Corn, Fresh	480	0			0.003 - 0.040	0.05
Sweet Corn, Frozen	73	0			0.003 - 0.040	0.05
Sweet Potatoes	553	0			0.003 ^	0.02
Watermelon	371	1	0.3	0.005 ^	0.003 ^	0.3
TOTAL	**10,601**	**543**				
Metolachlor (herbicide)						
Apples	744	0			0.001 ^	NT
Asparagus	372	0			0.010 ^	0.10
Baby Food - Green Beans	192	0			0.003 ^	0.30
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.012 ^	0.20
Black Beans, Canned	367	0			0.001 ^	0.30
Cabbage	743	0			0.015 ^	0.60
Cantaloupe	371	0			0.015 ^	NT
Cilantro (V-27)	544	27	5.0	0.002 - 0.025	0.001 ^	NT
Cucumbers (V-3)	744	3	0.4	0.002 ^	0.001 - 0.012	NT
Garbanzo Beans, Canned	186	0			0.001 ^	0.30
Grapes	745	0			0.004 - 0.012	NT
Hot Peppers	186	0			0.003 - 0.080	0.50
Lettuce	743	0			0.001 ^	NT
Mangoes	371	0			0.015 ^	NT
Orange Juice	191	0			0.001 ^	NT
Oranges	744	0			0.015 ^	NT
Spinach, Canned	181	0			0.010 ^	0.50
Spinach, Frozen	191	0			0.010 ^	0.50
Sweet Bell Peppers	744	0			0.002 ^	0.10
Sweet Corn, Fresh	481	0			0.010 - 0.012	0.10
Sweet Corn, Frozen	73	0			0.010 - 0.012	0.10
Sweet Potatoes	553	0			0.012 ^	0.20
Watermelon	371	0			0.003 ^	NT
TOTAL	**10,219**	**30**				
Metribuzin (herbicide)						
Apples	636	0			0.013 - 0.044	NT
Asparagus	372	2	0.5	0.021 - 0.091	0.020 ^	0.1
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	165	0			0.013 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.005 ^	NT
Cilantro	369	0			0.044 - 0.088	NT
Cucumbers	681	0			0.003 - 0.013	NT
Garbanzo Beans, Canned	186	0			0.005 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Lettuce (V-1)	743	1	0.1	0.008 ^	0.005 ^	NT
Orange Juice	191	0			0.005 ^	NT
Sweet Corn, Fresh	481	0			0.003 - 0.030	0.05
Sweet Corn, Frozen	73	0			0.003 - 0.030	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 Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**6,037**	**3**				
Mevinphos (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.001 ^	NT
Baby Food - Pears	191	0			0.005 ^	NT
Baby Food - Sweet Potatoes	191	0			0.001 ^	NT
Cabbage	743	0			0.001 - 0.003	1.0
Cantaloupe	330	0			0.025 ^	0.5
Cucumbers	744	0			0.001 - 0.002	0.2
Grapes	745	0			0.001 - 0.006	0.5
Hot Peppers	186	0			0.001 - 0.004	0.25
Lettuce	743	0			0.002 ^	0.5
Orange Juice	191	0			0.002 ^	NT
Oranges	559	0			0.025 ^	NT
Spinach, Canned	181	0			0.008 ^	1.0
Spinach, Frozen	191	0			0.008 ^	1.0
Sweet Bell Peppers	744	0			0.006 ^	0.25
Sweet Corn, Fresh	261	0			0.001 ^	NT
Sweet Corn, Frozen	14	0			0.001 ^	NT
Sweet Potatoes	553	0			0.001 ^	NT
Watermelon	371	0			0.001 ^	0.5
TOTAL	**7,874**	**0**				
MGK-264 (insecticide)						
Asparagus	372	0			0.040 ^	10
Baby Food - Green Beans	192	0			0.003 ^	10
Baby Food - Sweet Potatoes	191	0			0.012 - 0.040	10
Cabbage	743	0			0.11 ^	10
Cucumbers	372	0			0.012 ^	10
Grapes	373	0			0.012 ^	10
Hot Peppers	93	0			0.003 ^	10
Spinach, Canned	181	0			0.020 ^	10
Spinach, Frozen	191	0			0.020 ^	10
Sweet Corn, Fresh	481	0			0.012 - 0.040	10
Sweet Corn, Frozen	73	0			0.012 - 0.040	10
Sweet Potatoes	553	0			0.012 - 0.024	10
Watermelon	371	0			0.003 ^	10
TOTAL	**4,186**	**0**				
Milbemectin (insecticide, acaricide)						
Lettuce	743	0			0.050 ^	NT
TOTAL	**743**	**0**				
Monocrotophos (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	745	0			0.002 - 0.003	NT
Hot Peppers (V-8)	93	8	8.6	0.005 - 0.73	0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Bell Peppers	744	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**5,023**	**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
Moxidectin (insecticide, acaricide)						
Lettuce	743	0			0.010 ^	NT
TOTAL	**743**	**0**				
Myclobutanil (fungicide)						
Apples	744	60	8.1	0.002 - 0.028	0.001 ^	0.5
Asparagus	372	0			0.025 ^	0.02
Baby Food - Green Beans	192	0			0.006 ^	1.0
Baby Food - Pears	191	0			0.001 - 0.003	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.03
Black Beans, Canned	367	0			0.003 ^	1.0
Cabbage	743	0			0.001 - 0.003	0.03
Cantaloupe	371	0			0.075 ^	0.20
Cilantro	555	28	5.0	0.002 - 0.005	0.001 ^	9.0
Cucumbers	744	59	7.9	0.002 - 0.093	0.001 - 0.006	0.20
Garbanzo Beans, Canned	186	0			0.003 ^	1.0
Grapes	745	291	39.1	0.001 - 0.30	0.001 - 0.006	1.0
Hot Peppers	186	7	3.8	0.010 - 0.059	0.006 - 0.050	4.0
Lettuce	743	14	1.9	0.004 - 0.14	0.003 ^	9.0
Mangoes	309	0			0.075 ^	3.0
Orange Juice	191	0			0.003 ^	NT
Oranges	744	0			0.015 ^	NT
Spinach, Canned	181	0			0.020 ^	0.03
Spinach, Frozen	191	0			0.020 ^	0.03
Sweet Bell Peppers	744	190	25.5	0.001 - 0.21	0.001 ^	4.0
Sweet Corn, Fresh	481	0			0.006 - 0.025	0.03
Sweet Corn, Frozen	73	0			0.006 - 0.025	0.03
Sweet Potatoes	553	0			0.006 ^	0.03
Watermelon	371	0			0.006 ^	0.20
TOTAL	**10,168**	**649**				
Naled (insecticide)						
Lettuce	743	0			0.020 ^	1
Orange Juice	191	0			0.020 ^	3
Pears	743	0			0.004 ^	0.5
TOTAL	**1,677**	**0**				
1-Naphthol (metabolite of Carbaryl)						
Asparagus	372	1	0.3	1.0 ^	0.20 ^	15
Baby Food - Green Beans	192	0			0.009 ^	10
Baby Food - Sweet Potatoes	191	0			0.021 ^	0.2
Black Beans, Canned	367	0			0.015 ^	NT
Cabbage	743	0			0.001 - 0.017	21
Cucumbers	372	1	0.3	0.61 ^	0.021 ^	3.0
Garbanzo Beans, Canned	186	0			0.015 - 0.025	NT
Grapes	342	0			0.021 ^	10
Hot Peppers	186	9	4.8	0.015 - 0.26	0.009 - 0.040	5.0
Lettuce	712	0			0.015 ^	10
Orange Juice	191	0			0.015 ^	10
Spinach, Canned	181	51	28.2	0.083 - 3.4	0.040 ^	22
Spinach, Frozen	191	0			0.040 ^	22
Sweet Corn, Fresh	481	0			0.021 - 0.20	0.1
Sweet Corn, Frozen	73	0			0.021 - 0.20	0.1
Sweet Potatoes	522	0			0.021 ^	0.2
Watermelon	371	0			0.009 ^	3.0
TOTAL	**5,673**	**62**				
Napropamide (herbicide)						
Apples	744	0			0.007 - 0.022	0.1
Asparagus	372	0			0.066 ^	0.1
Baby Food - Green Beans	192	0			0.008 ^	NT
Baby Food - Pears	191	0			0.007 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.030 ^	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
Cabbage	743	0			0.045 ^	0.1
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.007 - 0.022	NT
Cucumbers	744	0			0.007 - 0.030	NT
Grapes	745	0			0.010 - 0.030	0.1
Hot Peppers	186	0			0.004 - 0.008	0.1
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.005 ^	0.1
Oranges	744	0			0.010 ^	0.1
Pears	743	0			0.038 ^	0.1
Sweet Bell Peppers	744	8	1.1	0.002 - 0.006	0.002 - 0.010	0.1
Sweet Corn, Fresh	261	0			0.030 ^	NT
Sweet Corn, Frozen	14	0			0.030 ^	NT
Sweet Potatoes	553	0			0.030 ^	0.1
Watermelon	371	0			0.008 ^	NT
TOTAL	**9,027**	**8**				
Nicosulfuron (herbicide)						
Sweet Corn, Fresh	219	0			0.008 ^	0.1
Sweet Corn, Frozen	59	0			0.008 ^	0.1
TOTAL	**278**	**0**				
Norflurazon (herbicide)						
Asparagus	372	0			0.030 ^	0.05
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.005 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.005 - 0.032	NT
Cucumbers	744	0			0.005 - 0.016	NT
Grapes	745	0			0.001 - 0.006	0.1
Hot Peppers	93	0			0.006 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	160	0			0.002 ^	0.2
Oranges	744	0			0.010 ^	0.2
Pears	731	0			0.060 ^	0.1
Sweet Bell Peppers	744	0			0.001 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**7,404**	**0**				
Norflurazon desmethyl (metabolite of Norflurazon)						
Apples	744	0			0.060 - 0.12	0.1
Asparagus	372	0			0.010 ^	0.05
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.018 - 0.060	0.1
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	481	0			0.060 - 0.12	NT
Cucumbers	744	0			0.006 - 0.060	NT
Grapes	745	0			0.004 - 0.006	0.1
Hot Peppers	93	0			0.006 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.005 ^	0.2
Oranges	744	0			0.010 ^	0.2
Pears	731	0			0.055 ^	0.1
Sweet Bell Peppers (V-1)	744	1	0.1	0.009 ^	0.004 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes (V-1)	553	1	0.2	0.010 ^	0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**8,105**	**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
Novaluron (insecticide)						
Cantaloupe	371	0			0.010 ^	0.15
Hot Peppers	93	0			0.016 ^	1.0
Mangoes	372	0			0.010 ^	NT
Oranges	723	0			0.010 ^	NT
TOTAL	**1,559**	**0**				
Omethoate (insecticide) (also a metabolite of Dimethoate)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	2.0
Baby Food - Pears	191	0			0.002 ^	2.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.020 ^	2.0
Cantaloupe	371	3	0.8	0.011 - 0.016	0.010 ^	1.0
Cilantro (V-8)	555	8	1.4	0.004 - 0.065	0.002 ^	NT
Cucumbers (V-4)	744	4	0.5	0.004 - 0.034	0.002 - 0.003	NT
Garbanzo Beans, Canned	186	0			0.020 ^	2.0
Grapes (V-3)	745	3	0.4	0.005 - 0.007	0.002 - 0.003	NT
Hot Peppers	186	9	4.8	0.005 - 0.12	0.003 - 0.004	2.0
Lettuce	743	2	0.3	0.023 - 0.043	0.020 ^	2.0
Mangoes (V-3)	372	3	0.8	0.011 - 0.024	0.010 ^	NT
Orange Juice	191	0			0.020 ^	2.0
Oranges	744	0			0.010 ^	2.0
Pears	743	1	0.1	0.12 ^	0.009 ^	2.0
Sweet Bell Peppers	744	41	5.5	0.003 - 0.16	0.002 - 0.005	2.0
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	8	2.2	0.005 - 0.024	0.003 ^	1.0
TOTAL	**9,208**	**82**				
Oryzalin (herbicide)						
Cantaloupe	371	0			0.020 ^	NT
Mangoes	372	0			0.020 ^	NT
Oranges	744	0			0.020 ^	0.05
TOTAL	**1,487**	**0**				
Oxadixyl (fungicide)						
Apples	744	0			0.013 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.013 ^	NT
Baby Food - Sweet Potatoes	191	0			0.021 - 0.070	NT
Cilantro	507	0			0.013 - 0.044	NT
Cucumbers	744	0			0.013 - 0.021	NT
Grapes	373	0			0.021 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.021 ^	NT
Sweet Corn, Frozen	14	0			0.021 ^	NT
Sweet Potatoes	553	0			0.021 - 0.070	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**4,978**	**0**				
Oxamyl (insecticide)						
Apples	744	0			0.002 - 0.012	2
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.002 - 0.012	2.0
Baby Food - Sweet Potatoes	191	0			0.006 ^	0.1
Black Beans, Canned	367	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	2.0
Cilantro	555	0			0.002 - 0.006	NT
Cucumbers	744	105	14.1	0.006 - 0.44	0.006 ^	2.0
Garbanzo Beans, Canned	186	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
Grapes	745	0			0.006 - 0.015	NT
Hot Peppers	186	21	11.3	0.010 - 1.0	0.006 - 0.008	5.0
Lettuce (V-1)	743	1	0.1	0.005 ^	0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	3
Oranges	744	0			0.010 ^	3
Pears	743	0			0.015 ^	2.0
Sweet Bell Peppers	744	70	9.4	0.015 - 0.47	0.015 ^	2.0
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	0.1
Watermelon	371	10	2.7	0.010 - 0.073	0.006 ^	2.0
TOTAL	**9,208**	**207**				
Oxamyl oxime (metabolite of Oxamyl)						
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Sweet Potatoes	191	0			0.012 ^	0.1
Black Beans, Canned	367	0			0.003 ^	NT
Cantaloupe	371	11	3.0	0.011 - 0.10	0.010 ^	2.0
Cucumbers	372	108	29.0	0.020 - 1.7	0.012 ^	2.0
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	0			0.012 - 0.035	NT
Hot Peppers	186	34	18.3	0.020 - 1.7	0.012 - 0.080	5.0
Lettuce	743	0			0.003 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	3
Oranges	744	0			0.010 ^	3
Sweet Bell Peppers	744	159	21.4	0.035 - 0.60	0.035 ^	2.0
Sweet Corn, Fresh	261	0			0.012 ^	NT
Sweet Corn, Frozen	14	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	0.1
Watermelon	371	18	4.9	0.020 - 0.19	0.012 ^	2.0
TOTAL	**6,603**	**330**				
Oxydemeton methyl (insecticide)						
Cantaloupe	371	0			0.010 ^	0.2
Grapes	372	0			0.003 ^	NT
Hot Peppers	93	0			0.004 ^	0.75
Lettuce	743	25	3.4	0.002 - 0.076	0.002 ^	2.0
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.002 ^	1.0
Oranges	744	0			0.010 ^	1.0
Sweet Bell Peppers	744	0			0.003 ^	0.75
Sweet Corn, Fresh	219	0			0.008 ^	0.5
Sweet Corn, Frozen	59	0			0.008 ^	0.5
TOTAL	**3,908**	**25**				
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)						
Apples	744	0			0.012 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.012 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	0.2
Cilantro	555	0			0.012 ^	NT
Cucumbers	744	2	0.3	0.024 - 0.051	0.003 - 0.012	1.0
Grapes	373	0			0.003 ^	NT
Hot Peppers	186	0			0.003 - 0.004	0.75
Lettuce	743	6	0.8	0.002 - 0.007	0.002 ^	2.0
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.002 ^	1.0
Oranges	744	0			0.010 ^	1.0
Sweet Corn, Fresh	480	0			0.003 - 0.008	0.5
Sweet Corn, Frozen	73	0			0.003 - 0.008	0.5

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	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	0.2
TOTAL	**7,074**	**8**				
Oxyfluorfen (herbicide)						
Apples	730	0			0.003 - 0.019	0.05
Baby Food - Green Beans	192	0			0.008 ^	NT
Baby Food - Pears	191	0			0.003 ^	0.05
Baby Food - Sweet Potatoes	191	0			0.030 ^	NT
Cabbage	743	0			0.025 - 0.083	0.05
Cantaloupe	371	0			0.025 ^	NT
Cilantro (V-5)	541	5	0.9	0.005 - 0.010	0.003 - 0.010	NT
Cucumbers	744	0			0.003 - 0.030	NT
Grapes	373	0			0.030 ^	0.05
Hot Peppers	93	0			0.008 ^	NT
Mangoes	371	0			0.025 ^	NT
Pears	743	0			0.037 ^	0.05
Sweet Corn, Fresh	261	0			0.030 ^	NT
Sweet Corn, Frozen	14	0			0.030 ^	NT
Sweet Potatoes	553	0			0.030 ^	NT
Watermelon	371	0			0.008 ^	NT
TOTAL	**6,482**	**5**				
Parathion (insecticide)						
Apples	744	0			0.003 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.010 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.003	NT
Grapes	745	0			0.002 - 0.020	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Bell Peppers	744	0			0.002 ^	NT
Sweet Corn, Fresh	481	0			0.002 - 0.040	1.0
Sweet Corn, Frozen	73	0			0.002 - 0.040	1.0
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**5,122**	**0**				
Parathion methyl (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.1
Black Beans, Canned	367	0			0.010 ^	1.0
Cabbage	677	0			0.010 - 0.030	1.0
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.010 ^	1.0
Grapes	373	0			0.002 ^	NT
Hot Peppers (V-4)	93	4	4.3	0.012 - 0.10	0.002 ^	NT
Lettuce	743	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	NT
Sweet Bell Peppers	744	0			0.003 ^	NT
Sweet Corn, Fresh	481	0			0.002 - 0.080	1.0
Sweet Corn, Frozen	73	0			0.002 - 0.080	1.0
Sweet Potatoes	553	0			0.002 ^	0.1
Watermelon	371	0			0.002 ^	NT
TOTAL	**6,914**	**4**				
Parathion methyl oxygen analog (metabolite of Parathion methyl)						
Apples	744	0			0.005 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.005 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	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
Black Beans, Canned	367	0			0.020 ^	1.0
Cucumbers	744	0			0.003 - 0.005	NT
Garbanzo Beans, Canned	186	0			0.020 ^	1.0
Grapes	373	0			0.003 ^	NT
Hot Peppers (V-1)	93	1	1.1	0.005 ^	0.003 ^	NT
Lettuce	743	0			0.020 ^	NT
Orange Juice	191	0			0.020 ^	NT
Sweet Corn, Fresh	480	0			0.003 - 0.032	1.0
Sweet Corn, Frozen	73	0			0.003 - 0.032	1.0
Sweet Potatoes	553	0			0.003 ^	0.1
Watermelon	371	0			0.003 ^	NT
TOTAL	**5,492**	**1**				
Parathion oxygen analog (metabolite of Parathion)						
Apples	744	0			0.003 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cabbage	743	0			0.002 - 0.006	NT
Cucumbers	744	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	1.0
Sweet Corn, Frozen	14	0			0.003 ^	1.0
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**4,470**	**0**				
Pendimethalin (herbicide)						
Apples	744	25	3.4	0.004 - 0.017	0.002 - 0.008	0.10
Asparagus	372	0			0.050 ^	0.15
Baby Food - Green Beans	192	0			0.006 ^	0.10
Baby Food - Pears	191	0			0.002 ^	0.10
Baby Food - Sweet Potatoes	191	0			0.021 ^	NT
Cabbage	743	0			0.088 ^	0.1
Cantaloupe	371	0			0.015 ^	NT
Cilantro (V-46)	555	46	8.3	0.004 - 0.064	0.002 ^	NT
Cucumbers	744	0			0.002 - 0.021	NT
Grapes	745	0			0.021 - 0.030	0.1
Hot Peppers	186	0			0.006 - 0.10	0.10
Mangoes	371	0			0.015 ^	NT
Orange Juice	191	0			0.10 ^	0.1
Oranges	744	0			0.015 ^	0.1
Pears	743	0			0.046 ^	0.10
Sweet Bell Peppers	744	2	0.3	0.002 - 0.010	0.002 - 0.003	0.10
Sweet Corn, Fresh	481	0			0.021 - 0.050	0.1
Sweet Corn, Frozen	73	0			0.021 - 0.050	0.1
Sweet Potatoes	553	0			0.021 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**9,305**	**73**				
Pentachloroaniline - PCA (metabolite of Quintozene)						
Apples	744	0			0.001 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Black Beans, Canned	367	0			0.002 ^	0.1
Cabbage	743	0			0.011 ^	0.1
Cantaloupe	350	0			0.030 ^	NT
Cilantro (V-28)	555	28	5.0	0.002 - 0.041	0.001 ^	NT
Cucumbers	372	0			0.005 ^	NT
Garbanzo Beans, Canned	186	0			0.002 ^	0.1
Hot Peppers	93	0			0.050 ^	0.1
Lettuce	743	0			0.002 ^	NT
Mangoes	350	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
Orange Juice	191	0			0.002 ^	NT
Oranges	744	0			0.030 ^	NT
TOTAL	**5,629**	**28**				
Pentachlorobenzene - PCB (metabolite of Quintozene)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	0.1
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.002 ^	0.1
Cabbage	743	0			0.014 ^	0.1
Cantaloupe	350	0			0.005 ^	NT
Cilantro (V-1)	555	1	0.2	0.015 ^	0.002 - 0.006	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.002 ^	0.1
Grapes	373	0			0.002 ^	NT
Hot Peppers	186	0			0.002 - 0.070	0.1
Lettuce	743	0			0.002 ^	NT
Mangoes	371	0			0.005 ^	NT
Orange Juice	191	0			0.002 ^	NT
Oranges	744	0			0.005 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon (V-1)	371	1	0.3	0.003 ^	0.002 ^	NT
TOTAL	**8,070**	**2**				
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)						
Apples	744	0			0.001 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Black Beans, Canned	367	0			0.001 ^	0.1
Cabbage	743	0			0.018 ^	0.1
Cantaloupe	350	0			0.005 ^	NT
Cilantro (V-1)	555	1	0.2	0.007 ^	0.001 ^	NT
Cucumbers	372	0			0.001 ^	NT
Garbanzo Beans, Canned	186	0			0.001 ^	0.1
Hot Peppers	93	0			0.10 ^	0.1
Lettuce	743	0			0.001 ^	NT
Mangoes	329	0			0.005 ^	NT
Orange Juice	191	0			0.001 ^	NT
Oranges	724	0			0.005 ^	NT
TOTAL	**5,588**	**1**				
Permethrin Total (insecticide)						
Asparagus	372	0			0.050 ^	2.0
Cantaloupe	371	0			0.10 ^	1.5
Hot Peppers	93	0			0.20 ^	NT
Mangoes	371	0			0.10 ^	NT
Oranges	744	0			0.10 ^	NT
Spinach, Canned	181	130	71.8	0.14 - 5.7	0.10 ^	20
Spinach, Frozen	191	40	20.9	0.10 - 6.4	0.10 ^	20
Sweet Corn, Fresh	220	0			0.050 ^	0.10
Sweet Corn, Frozen	59	0			0.050 ^	0.10
TOTAL	**2,602**	**170**				
Permethrin cis (isomer of Permethrin)						
Apples	744	2	0.3	0.004 ^	0.002 - 0.016	0.05
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Pears	191	0			0.002 - 0.008	0.05
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Black Beans, Canned	367	0			0.010 ^	NT
Cabbage	743	0			0.018 ^	6.0
Cilantro (V-11)	555	11	2.0	0.010 - 0.16	0.008 ^	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
Cucumbers	744	7	0.9	0.008 - 0.021	0.008 - 0.016	1.5
Garbanzo Beans, Canned	186	0			0.010 - 0.012	NT
Grapes	745	0			0.006 - 0.015	NT
Hot Peppers (V-1)	93	1	1.1	0.020 ^	0.012 ^	NT
Lettuce	743	120	16.2	0.010 - 1.6	0.010 ^	20
Orange Juice	191	0			0.010 ^	NT
Pears	743	0			0.024 ^	0.05
Sweet Bell Peppers	744	81	10.9	0.003 - 0.14	0.003 ^	0.50
Sweet Corn, Fresh	261	0			0.015 ^	0.10
Sweet Corn, Frozen	14	0			0.015 ^	0.10
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.012 ^	1.5
TOTAL	**8,371**	**222**				
Permethrin trans (isomer of Permethrin)						
Apples	744	1	0.1	0.009 ^	0.008 - 0.016	0.05
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Pears	191	0			0.002 - 0.008	0.05
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Black Beans, Canned	367	0			0.010 ^	NT
Cabbage	743	0			0.012 ^	6.0
Cilantro (V-10)	555	10	1.8	0.010 - 0.16	0.008 ^	NT
Cucumbers	744	1	0.1	0.025 ^	0.008 - 0.016	1.5
Garbanzo Beans, Canned	186	0			0.010 - 0.013	NT
Grapes	745	0			0.006 - 0.015	NT
Hot Peppers (V-4)	93	4	4.3	0.020 ^	0.012 ^	NT
Lettuce	743	118	15.9	0.010 - 1.5	0.010 ^	20
Orange Juice	191	0			0.010 ^	NT
Pears	743	0			0.024 ^	0.05
Sweet Bell Peppers	744	81	10.9	0.003 - 0.16	0.003 ^	0.50
Sweet Corn, Fresh	261	0			0.015 ^	0.10
Sweet Corn, Frozen	14	0			0.015 ^	0.10
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.012 ^	1.5
TOTAL	**8,371**	**215**				
Phenmedipham (herbicide)						
Cucumbers	65	0			0.003 ^	NT
Spinach, Canned	181	0			0.005 ^	4.0
Spinach, Frozen	191	8	4.2	0.009 - 0.040	0.005 ^	4.0
TOTAL	**437**	**8**				
Phenothrin (insecticide)						
Apples	698	0			0.008 ^	0.01
Asparagus	372	0			0.20 ^	0.01
Baby Food - Green Beans	192	0			0.008 ^	0.01
Baby Food - Pears	191	0			0.002 - 0.033	0.01
Baby Food - Sweet Potatoes	191	0			0.015 ^	0.01
Black Beans, Canned	367	0			0.025 - 0.10	0.01
Cabbage	743	0			0.011 ^	0.01
Cantaloupe	371	0			0.075 ^	0.01
Cucumbers	372	0			0.015 ^	0.01
Garbanzo Beans, Canned	186	0			0.025 ^	0.01
Grapes	745	0			0.015 - 0.018	0.01
Hot Peppers	186	0			0.008 - 0.20	0.01
Lettuce	743	0			0.025 - 0.10	0.01
Mangoes	371	0			0.075 ^	0.01
Orange Juice	191	0			0.10 ^	0.01
Oranges	721	0			0.075 ^	0.01
Spinach, Canned	181	0			0.020 ^	0.01
Spinach, Frozen	191	0			0.020 ^	0.01
Sweet Bell Peppers	744	0			0.045 ^	0.01
Sweet Corn, Fresh	453	0			0.015 - 0.20	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
Sweet Corn, Frozen	70	0			0.015 - 0.20	0.01
Sweet Potatoes	553	0			0.015 ^	0.01
Watermelon	371	0			0.008 ^	0.01
TOTAL	**9,203**	**0**				
Phenthoate (insecticide)						
Apples	744	0			0.006 - 0.020	NT
Baby Food - Pears	191	0			0.006 ^	NT
Cilantro	555	0			0.020 ^	NT
Cucumbers	372	0			0.006 ^	NT
TOTAL	**1,862**	**0**				
o-Phenylphenol (fungicide)						
Apples	744	7	0.9	0.005 - 0.035	0.003 ^	25
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	42	22.0	0.005 - 0.013	0.003 ^	25.0
Baby Food - Sweet Potatoes	191	0			0.012 ^	15
Cucumbers	744	13	1.7	0.005 - 1.5	0.003 - 0.012	10
Hot Peppers	93	0			0.003 ^	NT
Orange Juice	191	0			0.005 - 0.010	10
Pears	743	198	26.6	0.017 - 14	0.010 ^	25.0
Sweet Bell Peppers	744	5	0.7	0.012 - 0.058	0.010 ^	10
Sweet Corn, Fresh	28	0			0.012 ^	NT
Sweet Corn, Frozen	3	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	15
Watermelon	371	0			0.003 ^	NT
TOTAL	**4,788**	**265**				
Phorate (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	0.05
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.020 ^	0.05
Cantaloupe	371	0			0.010 ^	NT
Cilantro (V-1)	555	1	0.2	0.003 ^	0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Garbanzo Beans, Canned	186	0			0.020 ^	0.05
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Lettuce	743	0			0.020 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.020 ^	NT
Oranges	723	0			0.010 ^	NT
Sweet Corn, Fresh	481	0			0.002 - 0.10	0.05
Sweet Corn, Frozen	73	0			0.002 - 0.10	0.05
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**7,514**	**1**				
Phorate oxygen analog (metabolite of Phorate)						
Apples	744	0			0.001 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	0.05
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.010 ^	0.05
Cilantro	555	0			0.001 ^	NT
Cucumbers	744	0			0.001 - 0.002	NT
Garbanzo Beans, Canned	186	0			0.010 ^	0.05
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Lettuce	743	0			0.010 ^	NT
Orange Juice	191	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	481	0			0.002 - 0.080	0.05
Sweet Corn, Frozen	73	0			0.002 - 0.080	0.05
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**6,048**	**0**				
Phorate sulfone (metabolite of Phorate)						
Apples	744	0			0.003 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	0.05
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.010 ^	0.05
Cantaloupe	371	0			0.020 ^	NT
Cilantro	555	0			0.003 ^	NT
Cucumbers	744	0			0.003 ^	NT
Garbanzo Beans, Canned	186	0			0.010 ^	0.05
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Lettuce	743	0			0.010 ^	NT
Mangoes	372	0			0.020 ^	NT
Orange Juice	191	0			0.010 ^	NT
Sweet Corn, Fresh	481	0			0.003 - 0.080	0.05
Sweet Corn, Frozen	73	0			0.003 - 0.080	0.05
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**6,791**	**0**				
Phorate sulfoxide (metabolite of Phorate)						
Apples	744	0			0.009 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	0.05
Baby Food - Pears	191	0			0.009 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.010 ^	0.05
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.009 ^	NT
Cucumbers	744	0			0.003 - 0.009	NT
Garbanzo Beans, Canned	186	0			0.010 ^	0.05
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Lettuce	743	0			0.010 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	480	0			0.003 - 0.010	0.05
Sweet Corn, Frozen	73	0			0.003 - 0.010	0.05
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**7,534**	**0**				
Phosalone (insecticide)						
Apples	744	0			0.002 ^	10.0
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.002 ^	10.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.003	NT
Grapes	745	0			0.003 - 0.052	10.0
Hot Peppers	93	0			0.003 ^	NT
Oranges	724	0			0.050 ^	NT
Pears	743	0			0.039 ^	10.0
Sweet Bell Peppers	744	0			0.052 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	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 Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**6,865**	**0**				
Phosmet (insecticide)						
Apples	744	73	9.8	0.008 - 0.28	0.005 ^	10
Asparagus	372	0			0.013 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.005 ^	10
Baby Food - Sweet Potatoes	191	0			0.003 ^	12
Black Beans, Canned	367	0			0.010 ^	NT
Cabbage	743	0			0.002 - 0.006	NT
Cantaloupe	243	0			0.025 ^	NT
Cilantro	555	0			0.005 ^	NT
Cucumbers	744	0			0.003 - 0.005	NT
Garbanzo Beans, Canned	186	0			0.010 ^	NT
Grapes	745	3	0.4	0.005 - 0.11	0.003 - 0.050	10
Hot Peppers	186	0			0.003 - 0.090	NT
Lettuce	712	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	5
Oranges	682	0			0.025 ^	5
Pears	743	26	3.5	0.008 - 0.92	0.005 ^	10
Spinach, Canned	181	0			0.064 ^	NT
Spinach, Frozen	191	0			0.064 ^	NT
Sweet Bell Peppers	744	0			0.050 ^	NT
Sweet Corn, Fresh	480	0			0.003 - 0.013	NT
Sweet Corn, Frozen	73	0			0.003 - 0.013	NT
Sweet Potatoes	553	3	0.5	0.036 - 0.16	0.003 - 0.005	12
Watermelon	371	0			0.003 ^	NT
TOTAL	**10,380**	**105**				
Phosmet oxygen analog (metabolite of Phosmet)						
Asparagus	372	0			0.010 ^	NT
Cabbage (V-1)	743	1	0.1	0.067 ^	0.001 - 0.040	NT
Grapes	372	0			0.012 ^	10
Hot Peppers	93	0			0.010 ^	NT
Spinach, Canned	181	0			0.010 ^	NT
Spinach, Frozen	191	0			0.010 ^	NT
Sweet Bell Peppers	744	0			0.012 ^	NT
Sweet Corn, Fresh	219	0			0.010 ^	NT
Sweet Corn, Frozen	59	0			0.010 ^	NT
TOTAL	**2,974**	**1**				
Phosphamidon (insecticide)						
Apples	744	0			0.003 ^	1.0
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.003 ^	NT
Cucumbers	744	0			0.003 - 0.006	NT
Grapes	373	0			0.006 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**5,769**	**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
Piperonyl butoxide (insecticide)						
Apples	744	0			0.005 - 0.032	8
Asparagus	372	0			0.025 ^	10
Baby Food - Green Beans	192	0			0.002 ^	8
Baby Food - Pears	191	0			0.005 ^	8
Baby Food - Sweet Potatoes	191	0			0.009 ^	0.25
Black Beans, Canned	367	0			0.010 ^	8
Cabbage	743	0			0.017 ^	10
Cantaloupe	371	0			0.015 ^	8
Cilantro	555	1	0.2	0.19 ^	0.005 ^	10
Cucumbers	744	1	0.1	0.018 ^	0.005 - 0.009	10
Garbanzo Beans, Canned	186	3	1.6	0.012 - 0.038	0.010 - 0.023	8
Grapes	745	0			0.008 - 0.009	8
Hot Peppers	186	1	0.5	0.004 ^	0.002 - 0.060	10
Lettuce	743	1	0.1	0.016 ^	0.010 ^	10
Mangoes	371	0			0.015 ^	8
Orange Juice	191	0			0.010 ^	8
Oranges	744	0			0.015 ^	8
Pears	743	0			0.043 ^	8
Spinach, Canned	181	0			0.020 ^	10
Spinach, Frozen	191	0			0.020 ^	10
Sweet Bell Peppers	744	12	1.6	0.002 - 0.013	0.001 ^	10
Sweet Corn, Fresh	481	0			0.009 - 0.025	20
Sweet Corn, Frozen	73	0			0.009 - 0.025	20
Sweet Potatoes (X-7)	553	39	7.1	0.015 - 0.89	0.009 ^	0.25
Watermelon	371	0			0.002 ^	10
TOTAL	**10,973**	**58**				
Pirimicarb (insecticide)						
Apples	744	0			0.010 ^	NT
Baby Food - Green Beans	192	0			0.012 ^	NT
Baby Food - Pears	191	0			0.010 ^	NT
Baby Food - Sweet Potatoes	191	0			0.012 ^	NT
Cantaloupe	371	0			0.005 ^	NT
Cilantro	555	0			0.010 ^	NT
Cucumbers (V-1)	744	1	0.1	0.24 ^	0.010 - 0.012	NT
Grapes	373	0			0.012 ^	NT
Hot Peppers	93	0			0.012 ^	NT
Mangoes	372	0			0.005 ^	NT
Oranges	744	0			0.005 ^	NT
Sweet Corn, Fresh	261	0			0.012 ^	NT
Sweet Corn, Frozen	14	0			0.012 ^	NT
Sweet Potatoes	553	0			0.012 ^	NT
Watermelon	371	0			0.012 ^	NT
TOTAL	**5,769**	**1**				
Pirimiphos methyl (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Oranges	744	0			0.013 ^	NT
Sweet Corn, Fresh	481	0			0.002 - 0.020	NT
Sweet Corn, Frozen	73	0			0.002 - 0.020	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**5,305**	**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
Prallethrin (insecticide)						
Asparagus	372	0			0.033 ^	1.0
Baby Food - Green Beans	192	0			0.030 ^	1.0
Baby Food - Sweet Potatoes	191	0			0.009 ^	1.0
Black Beans, Canned	367	0			0.002 ^	1.0
Cabbage	743	0			0.072 ^	1.0
Cantaloupe	371	0			0.010 ^	1.0
Cucumbers	372	0			0.009 ^	1.0
Garbanzo Beans, Canned	186	0			0.002 ^	1.0
Grapes	745	0			0.009 - 0.050	1.0
Hot Peppers	93	0			0.090 ^	1.0
Lettuce	743	0			0.002 ^	1.0
Mangoes	372	0			0.010 ^	1.0
Orange Juice	191	0			0.002 ^	1.0
Oranges	744	0			0.010 ^	1.0
Pears	743	0			0.11 ^	1.0
Spinach, Canned	181	0			0.080 ^	1.0
Spinach, Frozen	191	0			0.080 ^	1.0
Sweet Bell Peppers	744	159	21.4	0.025 - 0.32	0.025 ^	1.0
Sweet Corn, Fresh	481	0			0.009 - 0.033	1.0
Sweet Corn, Frozen	73	0			0.009 - 0.033	1.0
Sweet Potatoes	553	0			0.009 ^	1.0
Watermelon	371	0			0.030 ^	1.0
TOTAL	**9,019**	**159**				
Procymidone (fungicide)						
Grapes	372	1	0.3	0.021 ^	0.010 ^	5.0
Sweet Bell Peppers	744	0			0.001 ^	NT
TOTAL	**1,116**	**1**				
Profenofos (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers (V-1)	372	1	0.3	0.003 ^	0.002 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
TOTAL	**3,349**	**1**				
Promecarb (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	372	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**2,420**	**0**				
Prometryn (herbicide)						
Apples	744	0			0.007 ^	NT
Baby Food - Green Beans	192	0			0.004 ^	NT
Baby Food - Pears	191	0			0.007 ^	NT
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Cilantro	555	44	7.9	0.011 - 0.31	0.007 ^	3.5
Cucumbers	744	0			0.007 - 0.015	NT
Grapes	373	0			0.015 ^	NT
Hot Peppers	93	0			0.004 ^	NT
Sweet Corn, Fresh	261	0			0.015 ^	NT
Sweet Corn, Frozen	14	0			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
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.004 ^	NT
TOTAL	**4,282**	**44**				
Pronamide (herbicide)						
Apples	744	1	0.1	0.010 ^	0.006 ^	0.1
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.006 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.008 ^	NT
Black Beans, Canned	367	0			0.002 ^	NT
Cilantro (V-4)	555	4	0.7	0.010 ^	0.006 ^	NT
Cucumbers	744	0			0.006 - 0.008	NT
Garbanzo Beans, Canned	186	0			0.002 ^	NT
Grapes	745	0			0.008 - 0.015	0.1
Hot Peppers	93	0			0.006 ^	NT
Lettuce	743	19	2.6	0.002 - 0.012	0.002 ^	1.0
Orange Juice	191	0			0.002 ^	NT
Oranges	744	0			0.025 ^	NT
Pears	743	0			0.014 ^	0.1
Sweet Bell Peppers	744	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.008 ^	NT
Sweet Corn, Frozen	14	0			0.008 ^	NT
Sweet Potatoes	553	0			0.008 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**8,372**	**24**				
Propamocarb hydrochloride (fungicide)						
Baby Food - Green Beans (V-3)	192	3	1.6	0.010 - 0.022	0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Black Beans, Canned	305	0			0.003 ^	NT
Cantaloupe	371	0			0.010 ^	1.5
Cucumbers	372	201	54.0	0.010 - 1.0	0.006 ^	1.5
Grapes	341	0			0.006 ^	NT
Hot Peppers	182	7	3.8	0.005 - 0.037	0.004 - 0.006	2.0
Lettuce	619	154	24.9	0.003 - 19	0.003 ^	90
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.003 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Corn, Fresh	231	0			0.006 ^	NT
Sweet Corn, Frozen	13	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	1	0.3	0.010 ^	0.006 ^	1.5
TOTAL	**5,048**	**366**				
Propargite (insecticide)						
Apples	730	0			0.026 - 0.088	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.026 - 0.18	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.025 ^	0.2
Cilantro	555	0			0.088 - 0.18	NT
Cucumbers	744	0			0.003 - 0.088	NT
Garbanzo Beans, Canned	186	0			0.025 - 0.045	0.2
Grapes	745	0			0.003 - 0.022	10.0
Hot Peppers	93	0			0.003 ^	NT
Lettuce	743	0			0.025 ^	NT
Orange Juice	191	0			0.025 ^	10.0
Sweet Bell Peppers	744	0			0.030 ^	NT
Sweet Corn, Fresh	481	0			0.003 - 0.080	0.1
Sweet Corn, Frozen	73	0			0.003 - 0.080	0.1
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**7,150**	**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
Propetamphos (insecticide)						
Apples	744	0			0.002 ^	0.1
Asparagus	372	0			0.16 ^	0.1
Baby Food - Green Beans	192	0			0.002 ^	0.1
Baby Food - Pears	191	0			0.002 ^	0.1
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.1
Black Beans, Canned	367	0			0.010 ^	0.1
Cantaloupe	371	0			0.010 ^	0.1
Cilantro	555	0			0.002 ^	0.1
Cucumbers	744	0			0.002 ^	0.1
Garbanzo Beans, Canned	186	0			0.010 ^	0.1
Grapes	745	0			0.002 - 0.005	0.1
Hot Peppers	93	0			0.002 ^	0.1
Lettuce	743	0			0.010 ^	0.1
Mangoes	372	0			0.010 ^	0.1
Orange Juice	191	0			0.010 ^	0.1
Oranges	744	0			0.010 ^	0.1
Pears	743	0			0.004 ^	0.1
Spinach, Canned	181	0			0.010 ^	0.1
Spinach, Frozen	191	0			0.010 ^	0.1
Sweet Bell Peppers	744	0			0.005 ^	0.1
Sweet Corn, Fresh	481	0			0.002 - 0.040	0.1
Sweet Corn, Frozen	73	0			0.002 - 0.040	0.1
Sweet Potatoes	553	0			0.002 ^	0.1
Watermelon	371	0			0.002 ^	0.1
TOTAL	**10,138**	**0**				
Propham (herbicide)						
Baby Food - Green Beans	192	0			0.004 ^	NT
Baby Food - Sweet Potatoes	191	0			0.015 ^	NT
Cucumbers	372	0			0.015 ^	NT
Grapes	373	0			0.015 ^	NT
Hot Peppers	93	0			0.004 ^	NT
Sweet Corn, Fresh	261	0			0.015 ^	NT
Sweet Corn, Frozen	14	0			0.015 ^	NT
Sweet Potatoes	553	0			0.015 ^	NT
Watermelon	371	0			0.004 ^	NT
TOTAL	**2,420**	**0**				
Propiconazole (fungicide)						
Apples	744	0			0.008 - 0.025	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.008 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	4	0.7	0.012 - 0.50	0.008 ^	13
Cucumbers	744	0			0.006 - 0.008	NT
Grapes	745	0			0.006 - 0.009	1.0
Hot Peppers	93	0			0.006 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Sweet Bell Peppers	744	0			0.009 ^	NT
Sweet Corn, Fresh	481	0			0.006 - 0.080	0.1
Sweet Corn, Frozen	73	0			0.006 - 0.080	0.1
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**7,164**	**4**				
Pymetrozine (insecticide)						
Cabbage	743	0			0.001 - 0.003	0.5
Cantaloupe	371	0			0.010 ^	0.1
Cilantro (V-1)	555	1	0.2	0.008 ^	0.005 ^	NT
Cucumbers	372	1	0.3	0.008 ^	0.005 ^	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
Grapes	372	0			0.014 ^	NT
Sweet Bell Peppers	744	0			0.014 ^	0.2
TOTAL	**3,157**	**2**				
Pyraclostrobin (fungicide)						
Apples	744	87	11.7	0.002 - 0.29	0.001 - 0.004	1.5
Baby Food - Green Beans	192	0			0.002 ^	0.5
Baby Food - Pears	191	0			0.001 - 0.004	1.5
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.04
Black Beans, Canned	367	0			0.003 ^	0.5
Cabbage	743	5	0.7	0.002 - 0.015	0.001 - 0.003	5.0
Cantaloupe	371	0			0.003 ^	0.5
Cilantro (V-19)	555	19	3.4	0.002 - 0.69	0.001 - 0.004	NT
Cucumbers	744	42	5.6	0.002 - 0.028	0.001 - 0.004	0.5
Garbanzo Beans, Canned	186	0			0.003 ^	0.5
Grapes	745	346	46.4	0.001 - 1.5	0.001 - 0.002	2.0
Hot Peppers	186	11	5.9	0.003 - 0.052	0.002 ^	1.4
Lettuce	743	43	5.8	0.004 - 1.8	0.003 ^	29.0
Mangoes	371	0			0.003 ^	0.6
Orange Juice	191	0			0.003 ^	2.0
Oranges	744	0			0.003 ^	2.0
Pears	743	27	3.6	0.025 - 0.12	0.015 ^	1.5
Spinach, Canned	181	17	9.4	0.008 - 0.22	0.005 ^	29.0
Spinach, Frozen	191	11	5.8	0.006 - 13	0.005 ^	29.0
Sweet Bell Peppers	744	127	17.1	0.001 - 0.27	0.001 ^	1.4
Sweet Corn, Fresh	481	0			0.002 - 0.040	0.04
Sweet Corn, Frozen	73	0			0.002 - 0.040	0.04
Sweet Potatoes	553	0			0.002 ^	0.04
Watermelon	371	0			0.002 ^	0.5
TOTAL	**10,601**	**735**				
Pyrethrins (insecticide)						
Cabbage	743	0			0.22 ^	1.0
Grapes	372	0			0.099 ^	1.0
Sweet Bell Peppers	744	0			0.10 ^	1.0
TOTAL	**1,859**	**0**				
Pyridaben (insecticide, acaricide)						
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cantaloupe	329	0			0.013 ^	NT
Cucumbers	372	0			0.002 ^	NT
Grapes	745	3	0.4	0.050 - 0.19	0.001 - 0.002	1.5
Hot Peppers	93	0			0.002 ^	NT
Mangoes	371	0			0.013 ^	0.10
Orange Juice	191	0			0.005 ^	0.5
Oranges	744	0			0.013 ^	0.5
Pears	731	5	0.7	0.070 - 0.17	0.042 ^	0.75
Sweet Bell Peppers	744	0			0.001 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**5,902**	**8**				
Pyridalyl (insecticide)						
Hot Peppers	93	0			0.10 ^	1
Lettuce	743	0			0.020 ^	20
Orange Juice	191	0			0.020 ^	NT
Spinach, Canned	181	0			0.040 ^	20
Spinach, Frozen	191	0			0.040 ^	20
TOTAL	**1,399**	**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
Pyrimethanil (fungicide)						
Apples	744	557	74.9	0.002 - 12	0.001 ^	14
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	90	47.1	0.002 - 0.37	0.001 ^	14
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.05
Cantaloupe	371	0			0.003 ^	NT
Cilantro (V-49)	555	49	8.8	0.002 - 0.012	0.001 ^	NT
Cucumbers (V-17)	744	17	2.3	0.002 - 0.15	0.001 - 0.003	NT
Grapes	745	102	13.7	0.001 - 1.7	0.001 - 0.003	5.0
Hot Peppers (V-1)	93	1	1.1	0.016 ^	0.003 ^	NT
Mangoes	372	0			0.003 ^	NT
Orange Juice	191	0			0.10 ^	10
Oranges	744	7	0.9	0.003 - 0.008	0.003 ^	10
Pears	743	300	40.4	0.074 - 4.9	0.049 ^	14
Sweet Bell Peppers	744	0			0.001 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	0.05
Watermelon (V-1)	371	1	0.3	0.005 ^	0.003 ^	NT
TOTAL	**7,819**	**1,124**				
Pyriproxyfen (insecticide, growth regulator)						
Apples	744	2	0.3	0.022 ^	0.013 ^	0.2
Asparagus	372	0			0.015 ^	2.0
Baby Food - Green Beans	192	0			0.002 ^	0.20
Baby Food - Pears	186	0			0.013 ^	0.2
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.15
Black Beans, Canned	367	0			0.001 ^	0.20
Cabbage	743	0			0.024 ^	0.70
Cantaloupe	371	0			0.015 ^	0.10
Cilantro	555	0			0.013 ^	0.10
Cucumbers	744	0			0.002 - 0.013	0.10
Garbanzo Beans, Canned	186	0			0.001 ^	0.20
Grapes	745	0			0.001 - 0.002	2.5
Hot Peppers	186	2	1.1	0.026 - 0.030	0.002 - 0.004	0.2
Lettuce	743	1	0.1	0.003 ^	0.001 ^	3.0
Mangoes	371	0			0.015 ^	1.0
Orange Juice	191	0			0.001 ^	0.3
Oranges	744	0			0.015 ^	0.3
Pears	743	1	0.1	0.070 ^	0.042 ^	0.2
Spinach, Canned	181	0			0.010 ^	3.0
Spinach, Frozen	191	0			0.010 ^	3.0
Sweet Bell Peppers	744	13	1.7	0.001 - 0.10	0.001 ^	0.2
Sweet Corn, Fresh	481	0			0.002 - 0.015	1.1
Sweet Corn, Frozen	73	0			0.002 - 0.015	1.1
Sweet Potatoes	553	0			0.002 ^	0.15
Watermelon	371	0			0.002 ^	0.10
TOTAL	**10,968**	**19**				
Quinoxyfen (fungicide)						
Apples	714	0			0.008 - 0.053	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	175	0			0.002 - 0.008	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	0.08
Cilantro (V-1)	539	1	0.2	0.004 ^	0.002 - 0.033	NT
Cucumbers (V-1)	714	1	0.1	0.014 ^	0.002 - 0.008	NT
Grapes	373	65	17.4	0.003 - 0.14	0.002 ^	0.60
Hot Peppers	186	12	6.5	0.002 - 0.022	0.002 ^	1.7
Lettuce	743	0			0.010 ^	19
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.010 ^	NT
Oranges	744	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	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	3	0.8	0.003 ^	0.002 ^	0.08
TOTAL	**6,704**	**82**				
Quintozene - PCNB (fungicide) (parent of HCB, PCA and PCB)						
Apples	744	0			0.003 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	0.1
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Black Beans, Canned	367	0			0.002 ^	0.1
Cabbage	743	0			0.040 ^	0.1
Cilantro (V-4)	555	4	0.7	0.005 - 0.14	0.003 ^	NT
Cucumbers (V-4)	744	4	0.5	0.005 - 0.020	0.003 ^	NT
Garbanzo Beans, Canned	186	0			0.002 ^	0.1
Grapes	745	0			0.003 - 0.021	NT
Hot Peppers	186	0			0.003 - 0.070	0.1
Lettuce	743	0			0.002 ^	NT
Orange Juice	191	0			0.002 ^	NT
Sweet Bell Peppers	744	0			0.004 ^	0.1
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**7,721**	**8**				
Resmethrin (insecticide)						
Cantaloupe	371	0			0.15 ^	3.0
Grapes	341	0			0.018 ^	3.0
Hot Peppers	93	0			0.080 ^	3.0
Mangoes	266	0			0.15 ^	3.0
Oranges	744	0			0.030 - 0.15	3.0
Spinach, Canned	164	0			0.020 ^	3.0
Spinach, Frozen	191	0			0.020 ^	3.0
Sweet Bell Peppers	682	0			0.18 ^	3.0
Sweet Corn, Fresh	220	0			0.030 ^	3.0
Sweet Corn, Frozen	59	0			0.030 ^	3.0
TOTAL	**3,131**	**0**				
Resmethrin-c (isomer of Resmethrin)						
Baby Food - Pears	191	0			0.002 ^	3.0
Black Beans, Canned	367	0			0.020 - 0.10	3.0
Cabbage	743	0			0.020 ^	3.0
Cucumbers	372	0			0.008 - 0.016	3.0
Garbanzo Beans, Canned	186	0			0.020 - 0.025	3.0
Lettuce	712	0			0.020 - 0.10	3.0
Orange Juice	191	0			0.10 ^	3.0
TOTAL	**2,762**	**0**				
Resmethrin-t (isomer of Resmethrin)						
Baby Food - Sweet Potatoes	191	0			0.030 ^	3.0
Black Beans, Canned	367	0			0.025 - 0.10	3.0
Cabbage	743	0			0.024 ^	3.0
Cilantro	539	0			0.008 - 0.033	3.0
Cucumbers	698	0			0.008 - 0.030	3.0
Garbanzo Beans, Canned	186	0			0.025 ^	3.0
Grapes	373	0			0.030 ^	3.0
Lettuce	712	0			0.025 - 0.10	3.0
Orange Juice	191	0			0.10 ^	3.0
Sweet Corn, Fresh	261	0			0.030 ^	3.0
Sweet Corn, Frozen	14	0			0.030 ^	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
Sweet Potatoes	553	0			0.030 ^	3.0
Watermelon	371	0			0.009 ^	3.0
TOTAL	**5,199**	**0**				
Rimsulfuron (herbicide)						
Orange Juice	191	0			0.010 ^	0.01
TOTAL	**191**	**0**				
Saflufenacil (herbicide)						
Orange Juice	191	0			0.010 ^	0.03
TOTAL	**191**	**0**				
Sethoxydim (herbicide)						
Baby Food - Green Beans	192	0			0.003 ^	15
Baby Food - Sweet Potatoes	191	0			0.003 ^	4.0
Cucumbers	372	0			0.003 ^	4.0
Grapes	745	0			0.003 - 0.007	1.0
Hot Peppers	93	0			0.003 ^	4.0
Lettuce	743	0			0.003 ^	4.0
Orange Juice	157	0			0.003 ^	0.5
Sweet Bell Peppers	649	0			0.007 ^	4.0
Sweet Corn, Fresh	261	0			0.003 ^	0.4
Sweet Corn, Frozen	14	0			0.003 ^	0.4
Sweet Potatoes	553	0			0.003 ^	4.0
Watermelon	371	0			0.003 ^	4.0
TOTAL	**4,341**	**0**				
Simazine (herbicide)						
Apples	744	0			0.002 ^	0.20
Asparagus	372	0			0.030 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.002 ^	0.25
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cucumbers	744	0			0.002 - 0.003	NT
Grapes	745	0			0.003 - 0.005	0.20
Hot Peppers	93	0			0.003 ^	NT
Orange Juice	191	0			0.005 ^	0.25
Pears	743	0			0.023 ^	0.25
Sweet Bell Peppers	744	0			0.005 ^	NT
Sweet Corn, Fresh	481	0			0.003 - 0.030	0.25
Sweet Corn, Frozen	73	0			0.003 - 0.030	0.25
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**6,428**	**0**				
Spinetoram (insecticide)						
Apples	744	37	5.0	0.002 - 0.006	0.001 ^	0.20
Baby Food - Pears	191	122	63.9	0.002 - 0.006	0.001 ^	0.20
Cabbage	743	0			0.002 - 0.006	2.0
Cilantro	555	2	0.4	0.013 - 0.021	0.006 ^	3.0
Cucumbers	372	0			0.001 ^	0.30
Lettuce	743	16	2.2	0.011 - 0.12	0.010 ^	8.0
Orange Juice	191	0			0.005 ^	0.30
Pears	743	40	5.4	0.025 - 0.058	0.015 ^	0.20
TOTAL	**4,282**	**217**				
Spinosad (insecticide) (total of spinosyns A and D)						
Apples	744	7	0.9	0.002 - 0.007	0.001 ^	0.20
Baby Food - Pears	191	91	47.6	0.002 - 0.006	0.001 ^	0.20
Cabbage	743	0			0.002 - 0.006	2.0
Cilantro	555	5	0.9	0.005 - 0.087	0.003 ^	8.0
Cucumbers	357	2	0.6	0.002 - 0.004	0.001 ^	0.3
Lettuce	743	53	7.1	0.006 - 2.1	0.005 ^	8.0

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
Pears	743	3	0.4	0.025 ^	0.015 ^	0.20
Spinach, Canned	181	3	1.7	0.016 - 0.063	0.016 ^	8.0
Spinach, Frozen	37	3	8.1	0.017 - 0.33	0.016 ^	8.0
TOTAL	**4,294**	**167**				
Spinosad A (isomer of Spinosad)						
Baby Food - Green Beans	192	0			0.002 ^	0.30
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.10
Cantaloupe	371	0			0.002 ^	0.3
Cucumbers	372	6	1.6	0.003 - 0.26	0.002 ^	0.3
Grapes	745	31	4.2	0.002 - 0.030	0.002 ^	0.50
Hot Peppers	93	0			0.002 ^	0.4
Mangoes	372	0			0.002 ^	0.3
Orange Juice	191	0			0.005 ^	0.3
Oranges	723	0			0.002 ^	0.3
Sweet Bell Peppers	744	35	4.7	0.002 - 0.035	0.002 - 0.004	0.4
Sweet Corn, Fresh	261	0			0.002 ^	0.02
Sweet Corn, Frozen	14	0			0.002 ^	0.02
Sweet Potatoes	553	0			0.002 ^	0.10
Watermelon	371	0			0.002 ^	0.3
TOTAL	**5,193**	**72**				
Spinosad D (isomer of Spinosad)						
Baby Food - Green Beans	192	0			0.002 ^	0.30
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.10
Cantaloupe	371	0			0.002 ^	0.3
Cucumbers	372	2	0.5	0.003 - 0.025	0.002 ^	0.3
Grapes	745	9	1.2	0.003 - 0.007	0.002 ^	0.50
Hot Peppers	93	0			0.002 ^	0.4
Mangoes	372	0			0.002 ^	0.3
Orange Juice	191	0			0.005 ^	0.3
Oranges	744	0			0.002 ^	0.3
Sweet Bell Peppers	744	4	0.5	0.002 - 0.006	0.002 ^	0.4
Sweet Corn, Fresh	261	0			0.002 ^	0.02
Sweet Corn, Frozen	14	0			0.002 ^	0.02
Sweet Potatoes	553	0			0.002 ^	0.10
Watermelon	371	0			0.002 ^	0.3
TOTAL	**5,214**	**15**				
Spirodiclofen (acaricide)						
Cantaloupe	186	0			0.010 ^	NT
Grapes	372	9	2.4	0.014 - 0.039	0.012 ^	2.0
Orange Juice	191	0			0.010 ^	0.50
Oranges	417	0			0.010 ^	0.50
Pears	743	11	1.5	0.037 - 0.12	0.022 ^	0.80
Sweet Bell Peppers	744	0			0.012 ^	NT
TOTAL	**2,653**	**20**				
Spiromesifen Total (parent + enol metabolite) (insecticide)						
Apples	744	0			0.006 - 0.020	NT
Baby Food - Pears	191	0			0.006 ^	NT
Cilantro	555	0			0.006 - 0.040	NT
Cucumbers	372	1	0.3	0.010 ^	0.006 - 0.040	0.10
TOTAL	**1,862**	**1**				
Spiromesifen (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	0.10
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.02
Cantaloupe	371	0			0.002 ^	0.10
Cucumbers	372	2	0.5	0.005 - 0.011	0.003 ^	0.10
Grapes	373	0			0.003 ^	NT
Hot Peppers	170	2	1.2	0.005 ^	0.003 - 0.20	0.45
Lettuce	743	0			0.002 ^	12

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
Mangoes	372	0			0.002 ^	NT
Orange Juice	191	0			0.002 ^	NT
Oranges	744	0			0.002 ^	NT
Spinach, Canned	181	0			0.040 ^	12
Spinach, Frozen	191	0			0.040 ^	12
Sweet Corn, Fresh	261	0			0.003 ^	0.02
Sweet Corn, Frozen	14	0			0.003 ^	0.02
Sweet Potatoes	553	0			0.003 ^	0.02
Watermelon	371	0			0.003 ^	0.10
TOTAL	**5,290**	**4**				
Spirotetramat (insecticide)						
Cabbage	743	0			0.001 - 0.003	2.5
Hot Peppers	93	0			0.002 ^	2.5
Lettuce	743	32	4.3	0.002 - 0.14	0.002 ^	9.0
Orange Juice	191	0			0.002 ^	0.60
Pears	743	2	0.3	0.025 - 0.046	0.015 ^	0.70
Spinach, Canned	181	0			0.002 ^	9.0
Spinach, Frozen	191	0			0.002 ^	9.0
TOTAL	**2,885**	**34**				
Sulfentrazone (herbicide)						
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cabbage	743	0			0.005 - 0.015	0.20
Cucumbers	372	0			0.006 ^	NT
Grapes	745	0			0.006 - 0.018	NT
Hot Peppers	93	0			0.006 ^	NT
Sweet Bell Peppers	744	0			0.018 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**4,279**	**0**				
Sulprofos (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	372	0			0.002 ^	NT
TOTAL	**1,862**	**0**				
TCMTB (fungicide)						
Sweet Corn, Fresh	219	0			0.010 ^	0.1
Sweet Corn, Frozen	59	0			0.010 ^	0.1
TOTAL	**278**	**0**				
Tebuconazole (fungicide)						
Apples	744	1	0.1	0.011 ^	0.002 ^	0.05
Baby Food - Green Beans	192	0			0.006 ^	0.1
Baby Food - Pears	191	0			0.002 ^	0.05
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cilantro (V-4)	555	4	0.7	0.003 - 0.017	0.002 ^	NT
Cucumbers	744	5	0.7	0.003 - 0.009	0.002 - 0.006	0.09
Grapes	745	220	29.5	0.003 - 0.86	0.003 - 0.006	5.0
Hot Peppers	93	0			0.006 ^	1.3
Sweet Bell Peppers	744	5	0.7	0.004 - 0.029	0.003 ^	1.3
Sweet Corn, Fresh	261	0			0.006 ^	0.5
Sweet Corn, Frozen	14	0			0.006 ^	0.5
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	3	0.8	0.010 - 0.022	0.006 ^	0.09
TOTAL	**5,398**	**238**				

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
Tebufenozide (insecticide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	0			0.003 - 0.010	1.5
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.015
Cabbage	743	1	0.1	0.005 ^	0.001 - 0.003	5.0
Cantaloupe	371	0			0.005 ^	NT
Cilantro	555	0			0.003 - 0.050	NT
Cucumbers	744	0			0.003 - 0.050	NT
Grapes	745	4	0.5	0.005 - 0.059	0.003 ^	3.0
Hot Peppers	186	1	0.5	0.005 ^	0.003 - 0.040	1.0
Lettuce	743	1	0.1	0.004 ^	0.002 ^	10.0
Mangoes	372	0			0.005 ^	NT
Orange Juice	191	0			0.002 ^	0.80
Oranges	744	0			0.005 ^	0.80
Pears	743	1	0.1	0.025 ^	0.015 ^	1.5
Spinach, Canned	181	0			0.32 ^	10.0
Spinach, Frozen	191	0			0.32 ^	10.0
Sweet Bell Peppers	744	8	1.1	0.004 - 0.095	0.003 ^	1.0
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	0.015
Watermelon	371	0			0.003 ^	NT
TOTAL	**9,026**	**16**				
Tebuthiuron (herbicide)						
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cucumbers	372	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**2,611**	**0**				
Tecnazene (plant growth regulator)						
Apples	664	0			0.005 ^	NT
Baby Food - Pears	158	0			0.005 ^	NT
Cilantro	539	0			0.005 ^	NT
Cucumbers	340	0			0.005 ^	NT
TOTAL	**1,701**	**0**				
Tefluthrin (insecticide)						
Apples	744	0			0.002 ^	NT
Asparagus	372	0			0.010 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Black Beans, Canned	367	0			0.002 ^	NT
Cabbage	743	0			0.036 ^	NT
Cantaloupe	326	0			0.025 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.006	NT
Garbanzo Beans, Canned	186	0			0.002 ^	NT
Grapes	745	0			0.006 - 0.008	NT
Hot Peppers	186	0			0.006 - 0.030	NT
Lettuce	743	0			0.002 ^	NT
Mangoes	371	0			0.025 ^	NT
Orange Juice	191	0			0.002 ^	NT
Spinach, Canned	181	0			0.020 ^	NT
Spinach, Frozen	191	0			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
Sweet Bell Peppers	744	0			0.001 ^	NT
Sweet Corn, Fresh	481	0			0.006 - 0.010	0.06
Sweet Corn, Frozen	73	0			0.006 - 0.010	0.06
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**9,441**	**0**				
Terbacil (herbicide)						
Apples	744	0			0.006 ^	0.3
Asparagus	372	0			0.060 ^	0.4
Baby Food - Green Beans	192	0			0.008 ^	NT
Baby Food - Pears	191	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.030 ^	NT
Cilantro (V-1)	555	1	0.2	0.010 ^	0.006 ^	NT
Cucumbers	744	0			0.006 - 0.030	NT
Grapes	373	0			0.030 ^	NT
Hot Peppers	93	0			0.008 ^	NT
Sweet Corn, Fresh	261	0			0.030 - 0.10	NT
Sweet Corn, Frozen	14	0			0.030 ^	NT
Sweet Potatoes	553	0			0.030 ^	NT
Watermelon	371	0			0.008 ^	1.0
TOTAL	**4,654**	**1**				
Terbufos (insecticide)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Mangoes	372	0			0.010 ^	NT
Sweet Corn, Fresh	481	0			0.002 - 0.020	0.05
Sweet Corn, Frozen	73	0			0.002 - 0.020	0.05
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**5,304**	**0**				
Terbufos sulfone (metabolite of Terbufos)						
Apples	744	0			0.002 ^	NT
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.002 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cilantro	555	0			0.002 ^	NT
Cucumbers	744	0			0.002 ^	NT
Grapes	373	0			0.002 ^	NT
Hot Peppers	93	0			0.002 ^	NT
Sweet Corn, Fresh	480	0			0.002 - 0.010	0.05
Sweet Corn, Frozen	73	0			0.002 - 0.010	0.05
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**4,560**	**0**				
Terbufos oxygen analog (metabolite of Terbufos)						
Sweet Corn, Fresh	219	0			0.002 ^	0.05
Sweet Corn, Frozen	59	0			0.002 ^	0.05
TOTAL	**278**	**0**				
Tetrachlorvinphos (insecticide)						
Apples	744	0			0.003 ^	NT
Baby Food - Green Beans	192	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
Baby Food - Pears	191	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cilantro	555	0			0.003 ^	NT
Cucumbers	744	0			0.003 ^	NT
Grapes	373	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	NT
TOTAL	**4,282**	**0**				
Tetraconazole (fungicide)						
Baby Food - Pears	191	0			0.001 ^	NT
TOTAL	**191**	**0**				
Tetradifon (insecticide)						
Apples	728	0			0.032 ^	NT
Baby Food - Green Beans	192	0			0.005 ^	NT
Baby Food - Pears	191	0			0.010 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Black Beans, Canned	367	0			0.002 ^	NT
Cilantro	541	0			0.032 - 0.064	NT
Cucumbers	744	0			0.006 - 0.032	NT
Garbanzo Beans, Canned	186	0			0.002 ^	NT
Grapes	745	0			0.006 - 0.010	NT
Hot Peppers	93	0			0.005 ^	NT
Lettuce	743	0			0.002 ^	NT
Orange Juice	191	0			0.002 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.005 ^	NT
TOTAL	**6,111**	**0**				
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)						
Apples	744	126	16.9	0.033 - 0.89	0.020 ^	25.0
Baby Food - Green Beans	192	0			0.012 ^	0.05
Baby Food - Pears	191	2	1.0	0.033 ^	0.020 ^	25.0
Baby Food - Sweet Potatoes	191	0			0.090 ^	0.05
Black Beans, Canned	367	0			0.010 ^	0.05
Cilantro (V-2)	555	2	0.4	0.11 - 1.5	0.020 ^	NT
Cucumbers	744	2	0.3	0.033 ^	0.020 - 0.090	0.05
Garbanzo Beans, Canned	186	0			0.010 - 0.071	0.05
Grapes	373	0			0.090 ^	25.0
Hot Peppers	186	0			0.012 - 0.20	0.05
Lettuce	743	1	0.1	0.018 ^	0.010 ^	0.05
Orange Juice	191	0			0.010 ^	NT
Sweet Corn, Fresh	261	0			0.090 ^	0.05
Sweet Corn, Frozen	14	0			0.090 ^	0.05
Sweet Potatoes	553	0			0.090 ^	0.05
Watermelon	371	0			0.012 ^	0.05
TOTAL	**5,862**	**133**				
Tetramethrin (insecticide)						
Asparagus	372	0			0.010 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Sweet Potatoes	191	0			0.030 ^	NT
Black Beans, Canned	367	0			0.005 ^	NT
Cabbage	743	0			0.096 ^	NT
Cantaloupe	371	0			0.015 ^	NT
Cucumbers	372	0			0.030 ^	NT
Garbanzo Beans, Canned	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
Grapes	745	0			0.020 - 0.030	NT
Hot Peppers	62	0			0.006 ^	NT
Lettuce (V-1)	743	1	0.1	0.55 ^	0.005 ^	NT
Mangoes	372	0			0.010 ^	NT
Orange Juice	191	0			0.005 ^	NT
Oranges	744	0			0.010 ^	NT
Pears	743	0			0.059 ^	NT
Spinach, Canned	181	0			0.020 ^	NT
Spinach, Frozen	191	0			0.020 ^	NT
Sweet Bell Peppers	744	0			0.004 ^	NT
Sweet Corn, Fresh	481	0			0.030 ^	NT
Sweet Corn, Frozen	73	0			0.030 ^	NT
Sweet Potatoes	553	0			0.030 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**8,988**	**1**				
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)						
Apples (X-1)	744	601	80.8	0.002 - 7.4	0.001 ^	5.0
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Pears	191	77	40.3	0.002 - 0.093	0.001 ^	5.0
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.05
Black Beans, Canned	367	0			0.003 ^	NT
Cabbage	743	1	0.1	0.010 ^	0.001 - 0.003	0.05
Cantaloupe	371	4	1.1	0.013 - 0.12	0.010 ^	15.0
Cilantro (V-3)	555	3	0.5	0.007 - 3.9	0.003 ^	NT
Cucumbers (V-5)	744	5	0.7	0.002 - 0.005	0.001 - 0.003	NT
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	0			0.003 ^	NT
Hot Peppers	93	0			0.003 ^	NT
Lettuce	743	0			0.003 ^	NT
Mangoes	372	58	15.6	0.024 - 1.5	0.010 ^	10.0
Orange Juice	191	14	7.3	0.003 - 0.022	0.003 ^	10.0
Oranges	744	372	50.0	0.010 - 0.19	0.010 ^	10.0
Sweet Bell Peppers	744	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	5	0.9	0.005 - 0.014	0.003 ^	0.05
Watermelon	371	0			0.003 ^	NT
TOTAL	**9,115**	**1,140**				
Thiacloprid (insecticide)						
Apples	744	94	12.6	0.002 - 0.13	0.001 - 0.003	0.30
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	7	3.7	0.002 - 0.018	0.001 - 0.003	0.30
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Cantaloupe	371	0			0.010 ^	NT
Cilantro	555	0			0.003 - 0.006	NT
Cucumbers	744	0			0.001 - 0.006	NT
Grapes (V-2)	745	2	0.3	0.001 - 0.007	0.001 - 0.002	NT
Hot Peppers (V-6)	93	6	6.5	0.003 - 0.066	0.002 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
Pears	743	52	7.0	0.025 - 0.10	0.015 ^	0.30
Sweet Bell Peppers (V-2)	744	2	0.3	0.016 - 0.045	0.001 - 0.002	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**7,628**	**163**				
Thiamethoxam (insecticide) (also a parent of Clothianidin)						
Apples	744	1	0.1	0.008 ^	0.005 ^	0.2
Baby Food - Green Beans	192	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
Baby Food - Pears	191	0			0.005 ^	0.2
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.02
Black Beans, Canned	367	0			0.003 ^	0.02
Cabbage	743	3	0.4	0.007 - 0.010	0.002 - 0.006	4.5
Cantaloupe	371	1	0.3	0.012 ^	0.010 ^	0.2
Cilantro (V-3)	555	3	0.5	0.008 ^	0.005 ^	NT
Cucumbers	744	120	16.1	0.003 - 0.12	0.002 - 0.005	0.2
Garbanzo Beans, Canned	186	0			0.003 ^	0.02
Grapes	745	8	1.1	0.003 - 0.035	0.002 - 0.005	0.20
Hot Peppers	186	29	15.6	0.003 - 0.12	0.002 - 0.040	0.25
Lettuce	743	13	1.7	0.003 - 0.027	0.003 ^	4.0
Mangoes	372	0			0.010 ^	0.40
Orange Juice	191	0			0.003 ^	0.40
Oranges	744	0			0.010 ^	0.40
Pears	743	1	0.1	0.025 ^	0.015 ^	0.2
Spinach, Canned	181	0			0.080 ^	4.0
Spinach, Frozen	191	0			0.080 ^	4.0
Sweet Bell Peppers (X-2)	744	198	26.6	0.005 - 0.27	0.005 ^	0.25
Sweet Corn, Fresh	481	1	0.2	0.003 ^	0.002 - 0.040	0.02
Sweet Corn, Frozen	73	0			0.002 - 0.040	0.02
Sweet Potatoes	553	3	0.5	0.003 ^	0.002 ^	0.02
Watermelon	371	41	11.1	0.003 - 0.024	0.002 ^	0.2
TOTAL	**10,602**	**422**				
Thiazopyr (herbicide)						
Orange Juice	191	0			0.008 ^	0.05
TOTAL	**191**	**0**				
Thiobencarb (herbicide)						
Apples	744	0			0.001 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cilantro	555	0			0.001 - 0.003	NT
Cucumbers	744	0			0.001 - 0.006	NT
Grapes	373	0			0.006 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Lettuce	743	0			0.010 ^	0.2
Orange Juice	191	0			0.010 ^	NT
Sweet Corn, Fresh	233	0			0.006 ^	NT
Sweet Corn, Frozen	11	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**5,185**	**0**				
Thiodicarb (insecticide)						
Baby Food - Green Beans	192	0			0.006 - 0.020	NT
Baby Food - Sweet Potatoes	191	0			0.006 - 0.020	NT
Cabbage	743	0			0.001 - 0.003	7.0
Cucumbers	372	0			0.006 - 0.020	NT
Grapes	373	0			0.006 - 0.020	NT
Hot Peppers	93	0			0.006 - 0.020	NT
Lettuce	743	0			0.003 ^	35
Orange Juice	191	0			0.003 ^	NT
Spinach, Canned	146	0			0.006 ^	35
Spinach, Frozen	191	0			0.006 ^	35
Sweet Potatoes	460	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**4,066**	**0**				
Thionazin (insecticide, fumigant)						
Baby Food - Green Beans	192	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	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
Cucumbers	372	0			0.001 ^	NT
Grapes	373	0			0.001 ^	NT
Hot Peppers	93	0			0.001 ^	NT
Sweet Corn, Fresh	261	0			0.001 ^	NT
Sweet Corn, Frozen	14	0			0.001 ^	NT
Sweet Potatoes	553	0			0.001 ^	NT
Watermelon	371	0			0.001 ^	NT
TOTAL	**2,420**	**0**				
Thiophanate methyl (fungicide)						
Hot Peppers	93	0			0.040 ^	0.5
Orange Juice	191	0			0.10 ^	0.5
Pears	743	11	1.5	0.025 - 0.39	0.015 - 0.030	3.0
TOTAL	**1,027**	**11**				
Tolyfluanid (fungicide)						
Grapes	372	0			0.024 - 0.096	11
TOTAL	**372**	**0**				
Tralomethrin (insecticide)						
Cabbage	370	0			0.33 - 0.34	0.02
Pears	743	0			0.11 ^	0.02
TOTAL	**1,113**	**0**				
Tri-Allate (herbicide)						
Baby Food - Green Beans	192	0			0.009 ^	NT
Baby Food - Sweet Potatoes	191	0			0.018 ^	NT
Cantaloupe	371	0			0.015 ^	NT
Cucumbers	372	0			0.018 ^	NT
Grapes	373	0			0.018 ^	NT
Hot Peppers	93	0			0.009 ^	NT
Mangoes	371	0			0.015 ^	NT
Oranges	724	0			0.015 ^	NT
Sweet Corn, Fresh	261	0			0.018 ^	NT
Sweet Corn, Frozen	14	0			0.018 ^	NT
Sweet Potatoes	553	0			0.018 ^	NT
Watermelon	371	0			0.009 ^	NT
TOTAL	**3,886**	**0**				
Triadimefon (fungicide) (also a parent of Triadimenol)						
Apples	744	0			0.001 - 0.015	1.0
Baby Food - Green Beans	192	0			0.006 ^	NT
Baby Food - Pears	191	0			0.001 - 0.006	1.0
Baby Food - Sweet Potatoes	191	0			0.006 ^	NT
Cucumbers (V-1)	744	1	0.1	0.002 ^	0.001 - 0.006	NT
Grapes	745	15	2.0	0.001 - 0.005	0.001 - 0.006	1.0
Hot Peppers	93	0			0.006 ^	NT
Pears	743	0			0.036 ^	1.0
Sweet Bell Peppers	744	0			0.001 ^	NT
Sweet Corn, Fresh	261	0			0.006 ^	NT
Sweet Corn, Frozen	14	0			0.006 ^	NT
Sweet Potatoes	553	0			0.006 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**5,586**	**16**				
Triadimenol (fungicide) (also a metabolite of Triadimefon)						
Baby Food - Green Beans	192	0			0.018 ^	NT
Baby Food - Sweet Potatoes	191	0			0.018 ^	NT
Cucumbers	372	0			0.018 ^	NT
Grapes	745	21	2.8	0.018 - 0.25	0.017 - 0.018	1.0
Hot Peppers	93	0			0.018 ^	NT
Sweet Bell Peppers	744	0			0.017 ^	NT
Sweet Corn, Fresh	481	0			0.018 - 0.050	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	73	0			0.018 - 0.050	0.05
Sweet Potatoes	553	0			0.018 ^	NT
Watermelon	371	0			0.018 ^	NT
TOTAL	**3,815**	**21**				
Trichlorfon (insecticide)						
Orange Juice	191	0			0.010 ^	NT
TOTAL	**191**	**0**				
Trifloxystrobin (fungicide)						
Apples	744	43	5.8	0.002 - 0.014	0.001 ^	0.5
Asparagus	372	0			0.030 ^	0.07
Baby Food - Green Beans	192	0			0.002 ^	NT
Baby Food - Pears	191	0			0.001 ^	0.5
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.003 ^	NT
Cantaloupe	371	0			0.005 ^	0.50
Cilantro	555	0			0.001 ^	NT
Cucumbers	744	4	0.5	0.002 - 0.011	0.001 - 0.002	0.50
Garbanzo Beans, Canned	186	0			0.003 ^	NT
Grapes	745	250	33.6	0.003 - 0.25	0.002 - 0.003	2.0
Hot Peppers	186	0			0.001 - 0.002	0.5
Lettuce	743	0			0.003 ^	NT
Mangoes	372	0			0.005 ^	0.7
Orange Juice	191	0			0.003 ^	0.6
Oranges	744	0			0.005 ^	0.6
Pears	743	2	0.3	0.008 - 0.024	0.005 ^	0.5
Sweet Bell Peppers	744	25	3.4	0.003 - 0.16	0.003 ^	0.5
Sweet Corn, Fresh	481	0			0.002 - 0.030	0.04
Sweet Corn, Frozen	73	0			0.002 - 0.030	0.04
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	0.50
TOTAL	**9,859**	**324**				
Trifloxysulfuron (herbicide)						
Orange Juice	191	0			0.005 ^	0.03
TOTAL	**191**	**0**				
Triflumizole (fungicide)						
Baby Food - Green Beans	192	0			0.003 ^	NT
Baby Food - Sweet Potatoes	191	0			0.003 ^	NT
Cabbage	743	0			0.001 - 0.003	8.0
Cantaloupe	371	0			0.003 ^	0.5
Cucumbers	372	2	0.5	0.005 ^	0.003 ^	0.5
Grapes	745	23	3.1	0.001 - 0.22	0.001 - 0.003	2.5
Hot Peppers	93	0			0.003 ^	NT
Mangoes	372	0			0.003 ^	2.5
Oranges	744	0			0.003 ^	NT
Pears	743	0			0.015 ^	0.5
Sweet Bell Peppers (V-1)	744	1	0.1	0.015 ^	0.001 ^	NT
Sweet Corn, Fresh	261	0			0.003 ^	NT
Sweet Corn, Frozen	14	0			0.003 ^	NT
Sweet Potatoes	553	0			0.003 ^	NT
Watermelon	371	0			0.003 ^	0.5
TOTAL	**6,509**	**26**				
Trifluralin (herbicide)						
Apples	744	0			0.001 - 0.002	NT
Asparagus	372	0			0.030 ^	0.05
Baby Food - Green Beans	192	0			0.005 ^	0.05
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.018 ^	0.05
Black Beans, Canned	367	0			0.001 ^	0.05
Cabbage	743	0			0.049 ^	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
Cantaloupe	371	0			0.015 ^	0.05
Cucumbers	744	0			0.001 - 0.018	0.05
Garbanzo Beans, Canned	186	0			0.001 ^	0.05
Grapes	745	0			0.009 - 0.018	0.05
Hot Peppers	186	0			0.005 - 0.080	0.05
Lettuce (V-15)	743	15	2.0	0.001 - 0.002	0.001 ^	NT
Mangoes	371	0			0.015 ^	NT
Orange Juice	191	0			0.001 ^	0.05
Oranges	744	0			0.015 ^	0.05
Sweet Bell Peppers	744	0			0.002 ^	0.05
Sweet Corn, Fresh	261	0			0.018 ^	0.05
Sweet Corn, Frozen	14	0			0.018 ^	0.05
Sweet Potatoes	553	0			0.018 ^	0.05
Watermelon	371	0			0.005 ^	0.05
TOTAL	**9,024**	**15**				
Triticonazole (fungicide)						
Cantaloupe	371	0			0.010 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
TOTAL	**1,487**	**0**				
Vernolate (herbicide)						
Cantaloupe	371	0			0.010 ^	NT
Mangoes	372	0			0.010 ^	NT
Oranges	744	0			0.010 ^	NT
TOTAL	**1,487**	**0**				
Vinclozolin (fungicide)						
Apples	744	0			0.004 ^	NT
Baby Food - Green Beans	192	0			0.006 ^	2.0
Baby Food - Pears	191	0			0.004 ^	NT
Baby Food - Sweet Potatoes	191	0			0.008 ^	NT
Black Beans, Canned	367	0			0.001 ^	2.0
Cilantro	555	0			0.004 ^	NT
Cucumbers	744	0			0.004 - 0.008	1
Garbanzo Beans, Canned	186	0			0.001 ^	2.0
Grapes	745	0			0.008 - 0.020	6.0
Hot Peppers	93	0			0.006 ^	NT
Lettuce	743	0			0.001 ^	10.0
Orange Juice	191	0			0.001 ^	NT
Sweet Bell Peppers	744	0			0.002 ^	3.0
Sweet Corn, Fresh	261	0			0.008 ^	NT
Sweet Corn, Frozen	14	0			0.008 ^	NT
Sweet Potatoes	553	0			0.008 ^	NT
Watermelon	371	0			0.006 ^	NT
TOTAL	**6,885**	**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 2010 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.

EX = Methoprene is exempt from the requirement of a tolerance in or on all food commodities when used to control insect larvae.

(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.

Appendix C

Distribution of Residues by Pesticide in Oats

Appendix C shows residue detections for all compounds tested in oats, 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 2010 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 2010, the Pesticide Data Program (PDP) analyzed 299 oat samples. PDP detected 6 different residues (including metabolites) in the oat samples. All residue detections were lower than the established tolerances for those compounds with established tolerances.

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, Title 40, Part 180)*. In both cases, these annotations are followed by a number indicating the number of samples reported to FDA.

Results for environmental contaminants across all commodities, including oats, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H).

APPENDIX C. DISTRIBUTION OF RESIDUES BY PESTICIDE IN OATS

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Acetochlor	H	298				0.003 ^	0.05
Allethrin	I	298				0.15 ^	NT
Azinphos methyl	I	279				0.020 ^	NT
Azinphos methyl oxygen analog	IM	299				0.010 ^	NT
Benoxacor	S	299				0.020 ^	0.01
Bifenthrin	I	298				0.001 ^	0.05
Boscalid	F	258				0.003 ^	0.20
Carbofuran	I	299				0.003 ^	0.2
Carboxin	F	298				0.001 ^	0.2
Carfentrazone ethyl	H	298				0.003 ^	0.10
Chlorpyrifos	I	299				0.010 ^	0.1
Chlorpyrifos methyl	I	298				0.010 ^	6.0
Chlorpyrifos methyl O-analog	IM	299				0.010 ^	6.0
Chlorpyrifos oxygen analog	IM	299				0.006 ^	0.1
Clopyralid	H	239				0.10 ^	3.0
Cyfluthrin	I	298				0.006 ^	0.15
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	278				0.003 ^	0.05
Cypermethrin	I	298				0.050 ^	0.05
Cyphenothrin	I	298				0.003 ^	NT
Deltamethrin (includes parent Tralomethrin)	I	238				0.010 ^	1.0
Dichlorvos (DDVP)	I	239				0.030 ^	0.5
Diflubenzuron	I	299				0.020 ^	0.06
Dimethomorph	F	218				0.006 ^	0.05
Endosulfan I	I	298				0.003 ^	0.3
Endosulfan II	IM	298				0.006 ^	0.3
Endosulfan sulfate	IM	298				0.003 ^	0.3
EPTC	H	278				0.006 ^	NT
Esfenvalerate+Fenvalerate Total	I	278				0.030 ^	0.05
Fenpropathrin	I	298				0.006 ^	NT
Fludioxonil	F	298				0.006 ^	0.02
Flufenacet	H	299				0.003 ^	0.1

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Fluridone	H	199				0.006 ^	0.1
Fluvalinate	I	298				0.010 ^	NT
Hydroprene	R	279				0.006 ^	0.2
3-Hydroxycarbofuran	IM	299				0.010 ^	0.2
Imidacloprid	I	299				0.020 ^	0.05
Imiprothrin	I	299				0.010 ^	NT
Ipconazole	F	278				0.010 ^	0.01
Lindane (BHC gamma)	I	298				0.030 ^	0.1 AL
Malathion	I	298	1	0.3	0.010 ^	0.006 ^	8
Malathion oxygen analog	IM	298				0.010 ^	8
Metalaxyl	F	299				0.006 ^	1.0
Metconazole	F	298				0.010 ^	1.0
Methomyl	I	299				0.020 ^	1
Methoprene	R	298	1	0.3	0.050 ^	0.030 ^	EX
Metolachlor	H	298				0.001 ^	0.10
MGK-264	I	298	4	1.3	0.017 - 0.10	0.010 ^	10
Myclobutanil	F	298				0.003 ^	0.03
Parathion methyl	I	298				0.006 ^	1.0
Parathion methyl oxygen analog	IM	298	7	2.3	0.010 ^	0.006 ^	1.0
Permethrin Total	I	298				0.10 ^	NT
Phenothrin	I	298	1	0.3	0.005 ^	0.003 ^	0.01
Piperonyl butoxide	I	298	3	1.0	0.010 - 0.050	0.006 ^	10
Prallethrin	I	278				0.010 ^	1.0
Propetamphos	I	298				0.003 ^	0.1
Propiconazole	F	299				0.010 ^	0.3
Pyraclostrobin	F	299				0.003 ^	1.2
Pyriproxyfen	I	299				0.003 ^	1.1
Resmethrin	I	298				0.003 ^	3.0
Spinetoram	I	197				0.030 ^	0.04
Spinosad A	IM	294				0.010 ^	1.5
Spinosad D	IM	299				0.010 ^	1.5
Spiromesifen Total (parent + enol metabolite)	I	298				0.003 ^	0.03
TCMTB	F	299				0.010 ^	0.1

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Tebuconazole	F	258				0.010 ^	0.05
Tefluthrin	I	298				0.003 ^	NT
Tetramethrin	I	298				0.030 ^	NT
Triadimenol	F	298				0.010 ^	0.05
Trifloxystrobin	F	299				0.003 ^	0.05
Trifluralin	H	298				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 2010 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 = Number shown is an Action Level established by FDA. 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.

EX = Methoprene is exempt from the requirement of a tolerance in or on all food commodities when used to control insect larvae.

Pesticide Types:

F = Fungicide

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

S = Herbicide Safener

Appendix D

Distribution of Residues by Pesticide in Eggs

Appendix D shows residue detections for all compounds tested in eggs, 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 2010 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 2010, the Pesticide Data Program (PDP) analyzed 371 egg samples. PDP detected 6 different residues (including metabolites), representing 5 pesticides. All residue detections were lower than the established tolerances for those compounds with established tolerances.

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, Title 40, Part 180)*. In both cases, these annotations are followed by a number indicating the number of samples reported to FDA.

Results for environmental contaminants across all commodities, including eggs, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H).

APPENDIX D. DISTRIBUTION OF RESIDUES BY PESTICIDE IN EGGS

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Acephate	I	371				0.020 ^	0.1
Acetamiprid	I	371				0.032 ^	0.010
Alachlor	H	371				0.012 ^	0.02
Allethrin	I	371				0.020 ^	NT
Azinphos methyl	I	371				0.015 ^	NT
Azinphos methyl oxygen analog	IM	371				0.010 ^	NT
Benoxacor	S	371				0.020 ^	0.01
Bifenthrin	I	371				0.005 ^	0.05
Boscalid	F	371				0.005 ^	0.02
Carbaryl	I	371	1	0.3	0.010 ^	0.010 ^	0.5
Carbendazim (MBC)	F	371				0.004 ^	0.1
Carbofuran	I	371				0.004 ^	NT
Carboxin	F	371				0.010 ^	0.05
Chlorantraniliprole	I	371				0.010 ^	0.2
Chlorfenapyr	I	371				0.001 ^	0.01
Chlorpyrifos	I	371				0.003 ^	0.1
Chlorpyrifos methyl	I	371				0.003 ^	0.1
Chlorpyrifos oxygen analog	IM	371				0.010 ^	0.1
Clethodim	H	371				0.050 ^	0.2
Cyfluthrin	I	371				0.002 ^	0.01
Cyhalothrin, Lambda	I	371				0.001 ^	0.01
Cypermethrin	I	371				0.002 ^	0.05
Cyphenothrin	I	371				0.028 ^	NT
Deltamethrin (includes parent Tralomethrin)	I	371				0.020 ^	0.02
Dichlorvos (DDVP)	I	371				0.010 ^	0.5
Dicofol p,p'	I	371				0.006 ^	0.05
Difenoconazole	F	371				0.020 ^	0.10
Diflubenzuron	I	371				0.025 ^	0.05
Dimethoate	I	371				0.008 ^	0.02
Endosulfan I	I	371				0.001 ^	NT
Endosulfan II	IM	371				0.001 ^	NT
Endosulfan sulfate	IM	371				0.001 ^	NT
Esfenvalerate+Fenvalerate Total	I	371				0.003 ^	0.05

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Fenpropathrin	I	371				0.014 ^	0.05
Fipronil	I	371				0.003 ^	0.03
Flonicamid	I	371				0.10 ^	0.04
Fluazifop butyl	H	371				0.005 ^	0.05
Flubendiamide	I	371				0.010 ^	0.01
Fluometuron	H	371				0.050 ^	0.1
Fluridone	H	371				0.010 ^	0.05
Flutolanil	F	371				0.005 ^	0.05
Fluvalinate (V-3)	I	371	3	0.8	0.001 - 0.005	0.001 ^	NT
3-Hydroxycarbofuran	IM	371				0.008 ^	NT
Imidacloprid	I	371				0.020 ^	0.02
Imiprothrin	I	371				0.050 ^	NT
Iprodione	F	371				0.010 ^	1.5
Lindane (BHC gamma)	I	371				0.005 ^	0.5 AL
Malathion	I	371				0.005 ^	0.1
Malathion oxygen analog	IM	371				0.005 ^	0.1
Metalaxyl	F	371				0.004 ^	0.05
Metconazole	F	371				0.020 ^	0.04
Methamidophos	I	371				0.020 ^	0.1
Methoxyfenozide	I	371				0.004 ^	0.02
Metolachlor	H	371				0.005 ^	0.02
Metribuzin	H	371				0.003 ^	0.01
MGK-264	I	371				0.015 ^	10
Myclobutanil	F	371				0.020 ^	0.02
1-Naphthol	IM	371	2	0.5	0.023 - 0.025	0.010 ^	0.5
Novaluron	I	371				0.15 ^	1.5
Omethoate	IM	371				0.010 ^	0.02
Oxydemeton methyl sulfone	IM	371				0.002 ^	0.01
Oxyfluorfen	H	371				0.003 ^	0.03
Permethrin Total	I	371				0.015 ^	0.10
Phenothrin	I	371				0.014 ^	0.01
Phosmet	I	371				0.005 ^	NT
Phosmet oxygen analog	IM	371				0.010 ^	NT
Piperonyl butoxide	I	371	7	1.9	0.003 - 0.038	0.002 ^	10
Prallethrin	I	371				0.010 ^	1.0

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Pronamide	H	371				0.010 ^	0.02
Propachlor	H	371				0.010 ^	NT
Propanil	H	371				0.007 ^	0.30
Propargite	I	371				0.020 ^	0.1
Propetamphos	I	371				0.030 ^	0.1
Pyrethrins	I	371				0.010 ^	1.0
Pyriproxyfen	I	371				0.002 ^	0.10
Quizalofop ethyl	H	371				0.005 ^	0.02
Resmethrin	I	371				0.019 ^	3.0
Simazine	H	371				0.006 ^	0.03
Spinosad	I	371				0.010 ^	0.30
Tebuconazole	F	371				0.010 ^	NT
Tefluthrin	I	371				0.003 ^	NT
Tepraloxydim	H	357				0.050 ^	0.20
Tetrachlorvinphos	I	371	1	0.3	0.007 ^	0.005 ^	0.2
Tetraconazole	F	371				0.010 ^	0.02
Tetramethrin	I	371				0.010 ^	NT
Thiobencarb	H	371				0.008 ^	0.2
Toxaphene	I	371				0.040 ^	NT
Trifloxystrobin	F	371	1	0.3	0.002 ^	0.001 ^	0.04
Triflumizole	F	371				0.010 ^	0.05
Vinclozolin	F	371				0.003 ^	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 2010 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.

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

AL = Number shown is an Action Level established by FDA. 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.

Pesticide Types:

F = Fungicide

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

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 2010 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 2010, the Pesticide Data Program (PDP) analyzed 384 catfish samples. PDP detected 23 different residues (including metabolites), representing 22 pesticides, in the catfish samples. Pesticides present in water as contaminants may be taken up by catfish, resulting in the detection of pesticides with no tolerance established. EPA is addressing these issues under environmental effect assessments. For these reasons, catfish residue results, along with results from groundwater and drinking water, are excluded when providing overall residue counts.

Results for environmental contaminants across all commodities, including catfish, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H).

APPENDIX E. DISTRIBUTION OF RESIDUES BY PESTICIDE IN CATFISH

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Acetamiprid	I	384				0.016 ^	NA
Acetochlor	H	384	1	0.3	0.009 ^	0.006 ^	NA
Alachlor	H	384				0.010 ^	NA
Aldicarb	I	384				0.025 ^	NA
Aldicarb sulfone	IM	384				0.010 ^	NA
Allethrin	I	384				0.005 ^	NA
Atrazine	H	384	3	0.8	0.003 - 0.006	0.002 ^	NA
Azinphos methyl	I	384	1	0.3	0.003 ^	0.002 ^	NA
Azoxystrobin	F	384				0.001 ^	NA
Benfluralin	H	384				0.001 ^	NA
Bifenazate	A	383				0.020 ^	NA
Bifenox	H	344				0.012 ^	NA
Bifenthrin	I	384	130	33.9	0.001 - 0.060	0.001 ^	NA
Boscalid	F	384				0.006 ^	NA
Bromuconazole	F	283				0.020 ^	NA
Buprofezin	I	304				0.020 ^	NA
Butralin	H	384				0.006 ^	NA
Butylate	H	384				0.004 ^	NA
Captan	F	384				0.005 ^	NA
Carbaryl	I	384				0.005 ^	NA
Carbofuran	I	384				0.002 ^	NA
Carbophenothion	I	384				0.001 ^	NA
Carfentrazone ethyl	H	384	1	0.3	0.002 ^	0.001 ^	0.30
Chlorethoxyfos	I	384				0.001 ^	NA
Chlorfenapyr	I	384				0.001 ^	NA
Chlorobenzilate	A	384				0.005 ^	NA
Chloroxuron	H	384				0.008 ^	NA
Chlorpropham	H	384				0.020 ^	NA
Chlorpyrifos	I	384	37	9.6	0.001 - 0.040	0.001 ^	NA
Chlorpyrifos methyl	I	384	5	1.3	0.001 - 0.003	0.001 ^	NA
Clofentezine	I	384				0.006 ^	NA
Clomazone	H	384				0.003 ^	NA
Clothianidin	I	384				0.010 ^	NA
Coumaphos	I	384				0.001 ^	NA
Cyfluthrin	I	384				0.001 ^	NA
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	384	2	0.5	0.002 - 0.003	0.001 ^	NA
Cypermethrin	I	384	6	1.6	0.001 - 0.011	0.001 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Cyphenothrin	I	384	1	0.3	0.10 ^	0.020 ^	NA
Cyprodinil	F	384				0.003 ^	NA
DCPA	H	384				0.001 ^	NA
Deltamethrin (includes parent Tralomethrin)	I	384	1	0.3	0.012 ^	0.010 ^	NA
Diazinon	I	384				0.001 ^	NA
Dichlorvos (DDVP)	I	384				0.009 ^	NA
Diclofop methyl	H	384				0.002 ^	NA
Dicloran	F	384				0.001 ^	NA
Dicofol p,p'	I	384				0.001 ^	NA
Difenoconazole	F	364				0.012 ^	NA
Diflubenzuron	I	384				0.013 ^	NA
Dimethenamid	H	384				0.006 ^	NA
Dimethoate	I	384				0.004 ^	NA
Dimethomorph	F	384				0.005 ^	NA
2,4-dimethylphenyl formamide (2,4-DMPF)	I	384	1	0.3	0.009 ^	0.008 ^	NA
Dinitramine	H	384				0.001 ^	NA
Dinotefuran	I	384				0.013 ^	NA
Diphenamid	H	384				0.001 ^	NA
Diphenylamine (DPA)	F	384	20	5.2	0.002 - 0.004	0.002 ^	NA
Disulfoton	I	384				0.005 ^	NA
Diuron	H	384	24	6.2	0.017 - 0.21	0.016 ^	2.0
Endosulfan I	I	384	1	0.3	0.001 ^	0.001 ^	NA
Endosulfan II	IM	384				0.001 ^	NA
Endosulfan sulfate	IM	384	30	7.8	0.001 - 0.028	0.001 ^	NA
EPN	I	384				0.001 ^	NA
Epoxiconazole	F	144				0.001 ^	NA
Esfenvalerate+Fenvalerate Total	I	384	4	1.0	0.002 - 0.021	0.001 ^	NA
Ethalfluralin	H	384				0.001 ^	NA
Ethofumesate	H	384				0.004 ^	NA
Etoxazole	A	364				0.001 ^	NA
Etridiazole	F	384				0.006 ^	NA
Famoxadone	F	384				0.020 ^	NA
Fenamidone	F	384				0.003 ^	NA
Fenamiphos	I	384				0.002 ^	NA
Fenarimol	F	384				0.001 ^	NA
Fenbuconazole	F	384				0.004 ^	NA
Fenhexamid	F	384				0.002 ^	NA
Fenitrothion	I	384				0.001 ^	NA
Fenoxaprop ethyl	H	384				0.004 ^	NA
Fenoxycarb	I	363				0.010 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Fenpropathrin	I	363				0.020 ^	NA
Fenpyroximate	A	384				0.002 ^	NA
Fenthion	I	384				0.009 ^	NA
Fipronil	I	384				0.009 ^	NA
Fluazifop butyl	H	304				0.002 ^	NA
Fluchloralin	H	384				0.006 ^	NA
Flucythrinate	I	384				0.020 ^	NA
Flumetralin	P	384				0.001 ^	NA
Flumiclorac pentyl	H	384				0.006 ^	NA
Fluoxastrobin	F	384				0.002 ^	NA
Fluridone	H	384				0.010 ^	0.5
Fluroxypyr 1-methylheptyl ester	H	384				0.001 ^	NA
Fluvalinate	I	384				0.001 ^	NA
Hydroprene	R	384				0.012 ^	NA
3-Hydroxycarbofuran	IM	384				0.004 ^	NA
Imidacloprid	I	384				0.010 ^	NA
Imiprothrin	I	363				0.030 ^	NA
Indoxacarb	I	384				0.013 ^	NA
Iprodione	F	384				0.005 ^	NA
Isopropalin	H	384				0.010 ^	NA
Isoxaflutole	H	384				0.030 ^	NA
Lactofen	H	364				0.006 ^	NA
Lindane (BHC gamma)	I	384	4	1.0	0.003 - 0.004	0.002 ^	NA
Linuron	H	384				0.005 ^	NA
Malathion	I	384				0.001 ^	NA
Metalaxyl	F	384				0.002 ^	NA
Methidathion	I	384				0.003 ^	NA
Methomyl	I	384				0.006 ^	NA
Methoxychlor p,p'	IM	384				0.006 ^	NA
Methoxyfenozide	I	384				0.002 ^	NA
Metolachlor	H	384				0.004 ^	NA
Metribuzin	H	384				0.001 ^	NA
Mevinphos Total	I	384				0.010 ^	NA
MGK-264	I	384				0.015 ^	10
MGK-326 (dipropyl isocinchomeronate)	I	384				0.006 ^	NA
Mirex	I	384				0.002 ^	NA
Myclobutanil	F	384				0.010 ^	NA
1-Naphthol	IM	384				0.006 ^	NA
Nitrofen	H	384				0.001 ^	NA
Norflurazon	H	384				0.002 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Oxadiazon	H	384	3	0.8	0.003 ^	0.002 ^	NA
Oxamyl	I	384				0.006 ^	NA
Oxamyl oxime	IM	384				0.016 ^	NA
Oxyfluorfen	H	384				0.001 ^	NA
Parathion ethyl	I	384				0.002 ^	NA
Parathion methyl	I	384				0.001 ^	NA
Pendimethalin	H	384	8	2.1	0.002 - 0.074	0.002 ^	NA
Pentachloroaniline (PCA)	FM	384	10	2.6	0.001 - 0.003	0.001 ^	NA
Permethrin Total	I	384				0.003 ^	NA
Phenmedipham	H	384				0.013 ^	NA
Phenothrin	I	324				0.012 ^	0.01
Phorate	I	384				0.012 ^	NA
Phosalone	I	384				0.012 ^	NA
Phosmet	I	384				0.003 ^	NA
Piperonyl butoxide	I	383				0.008 ^	10
Pirimiphos methyl	I	384				0.003 ^	NA
Prallethrin	I	384				0.002 ^	NA
Prodiamine	H	384				0.003 ^	NA
Pronamide	H	384				0.001 ^	NA
Propachlor	H	384				0.012 ^	NA
Propargite	I	363				0.010 ^	NA
Propazine	H	384				0.001 ^	NA
Propetamphos	I	384	1	0.3	0.011 ^	0.010 ^	NA
Propham	H	384				0.005 ^	NA
Propiconazole	F	184				0.009 ^	NA
Propoxur	I	384				0.025 ^	NA
Pyraclostrobin	F	384				0.015 ^	NA
Pyrethrins	I	384				0.010 ^	NA
Pyridaben	I	384				0.001 ^	NA
Pyrimethanil	F	384				0.004 ^	NA
Quintozene (PCNB)	F	384				0.001 ^	NA
Resmethrin	I	224				0.008 ^	NA
Sethoxydim	H	384				0.002 ^	NA
Simazine	H	384				0.003 ^	NA
Spirodiclofen	A	384				0.001 ^	NA
Spiromesifen Total (parent + enol metabolite)	I	384				0.005 ^	NA
Sulprofos	I	384				0.008 ^	NA
Tebufenozide	I	384				0.025 ^	NA
Tebupirimfos	I	384				0.003 ^	NA
Tebuthiuron	H	384				0.002 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Tefluthrin	I	384				0.001 ^	NA
Temephos	I	384				0.004 ^	NA
Terbufos	I	384				0.005 ^	NA
Tetrachlorvinphos	I	384				0.002 ^	NA
Tetraconazole	F	384				0.002 ^	NA
Tetradifon	I	384				0.001 ^	NA
Tetrahydrophthalimide (THPI)	FM	384				0.024 ^	NA
Tetramethrin	I	384				0.003 ^	NA
Thiacloprid	I	384				0.002 ^	NA
Thiamethoxam	I	384				0.020 ^	NA
Thiobencarb	H	364				0.020 ^	NA
Thiodicarb	I	384				0.050 ^	NA
Tolclofos methyl	F	384				0.003 ^	NA
Tri Allate	H	384				0.006 ^	NA
Triadimefon	F	384				0.002 ^	NA
Tridiphane	H	384				0.012 ^	NA
Trifluralin	H	384	3	0.8	0.002 - 0.003	0.001 ^	NA
Triticonazole	F	264				0.009 ^	NA
Vinclozolin	F	384				0.001 ^	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 2010 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.

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.

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 Groundwater

Appendix F 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 2010, the Pesticide Data Program (PDP) analyzed 250 groundwater samples from 250 different collection sites, including 209 from school/daycare wells, 27 from private residential wells, and 14 from municipal water facilities that draw from a groundwater source. PDP detected 24 different residues (including metabolites), representing 18 pesticides, in the groundwater samples. Most of the detections were for herbicides. The samples with detectable residues came from 63 different sites.

Results for environmental contaminants across all commodities, including groundwater, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H).

APPENDIX F. DISTRIBUTION OF RESIDUES BY PESTICIDE IN GROUNDWATER

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
2,4,5-T	H					
Groundwater - Municipal Water Facilities		14				1.8 ^
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
2,4,5-TP	H					
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
2,4-D	H					
Groundwater - Municipal Water Facilities		14	2	14.3	15 - 56	3.6 ^
Groundwater - Private Residence Wells		27	1	3.7	4.2 ^	2.5 ^
Groundwater - School/Daycare Wells		209	3	1.4	4.2 - 12.1	2.5 ^
2,4-DB	H					
Groundwater - Municipal Water Facilities		14				30 ^
Groundwater - Private Residence Wells		27				4.0 ^
Groundwater - School/Daycare Wells		209				4.0 ^
3-Hydroxycarbofuran	IM					
Groundwater - Municipal Water Facilities		14				24 ^
Acetamiprid	I					
Groundwater - Private Residence Wells		26				4.5 ^
Groundwater - School/Daycare Wells		202				4.5 ^
Acetochlor	H					
Groundwater - Municipal Water Facilities		14				30 ^
Groundwater - Private Residence Wells		27				10 ^
Groundwater - School/Daycare Wells		209				10 ^
Acetochlor ethanesulfonic acid (ESA)	HM					
Groundwater - Municipal Water Facilities		14				4.8 ^
Groundwater - Private Residence Wells		27				9.0 ^
Groundwater - School/Daycare Wells		209	1	0.5	15 ^	9.0 ^
Acetochlor oxanilic acid (OA)	HM					
Groundwater - Municipal Water Facilities		14				4.8 ^
Groundwater - Private Residence Wells		27				10 ^
Groundwater - School/Daycare Wells		209				10 ^
Alachlor	H					
Groundwater - Municipal Water Facilities		14				9.8 ^
Groundwater - Private Residence Wells		27				10 ^
Groundwater - School/Daycare Wells		209				10 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Alachlor ethanesulfonic acid (ESA)	HM					
Groundwater - Municipal Water Facilities		14	2	14.3	22 - 28	4.8 ^
Groundwater - Private Residence Wells		27	1	3.7	20.8 ^	12.5 ^
Groundwater - School/Daycare Wells		209	13	6.2	20.8 - 444	12.5 ^
Alachlor oxanilic acid (OA)	HM					
Groundwater - Municipal Water Facilities		14				4.8 ^
Groundwater - Private Residence Wells		27				10 ^
Groundwater - School/Daycare Wells		209	2	1.0	17 ^	10 ^
Aldicarb	I					
Groundwater - Municipal Water Facilities		12				5.3 ^
Aldicarb sulfone	IM					
Groundwater - Private Residence Wells		26				4.5 ^
Groundwater - School/Daycare Wells		202				4.5 ^
Aldicarb sulfoxide	IM					
Groundwater - Private Residence Wells		26				15 ^
Groundwater - School/Daycare Wells		202				15 ^
Atrazine	H					
Groundwater - Municipal Water Facilities		14	2	14.3	3.8 ^	2.3 ^
Groundwater - Private Residence Wells		27	1	3.7	17 ^	10 ^
Groundwater - School/Daycare Wells		209	5	2.4	17 - 349	10 ^
Azinphos methyl	I					
Groundwater - Municipal Water Facilities		12				18.8 ^
Azoxystrobin	F					
Groundwater - Private Residence Wells		26				3.0 ^
Groundwater - School/Daycare Wells		202				3.0 ^
Benfluralin	H					
Groundwater - Municipal Water Facilities		14				11.3 ^
Bensulfuron methyl	H					
Groundwater - Municipal Water Facilities		14				1.2 ^
Groundwater - Private Residence Wells		27				5.0 ^
Groundwater - School/Daycare Wells		209				5.0 ^
Bentazon	H					
Groundwater - Municipal Water Facilities		14				1.2 ^
Groundwater - Agricultural/Farm Wells		16				0.30 ^
Groundwater - Private Residence Wells		89				0.30 ^
Boscalid	F					
Groundwater - Private Residence Wells		27				60 - 100
Groundwater - School/Daycare Wells		209				60 - 100

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Bromacil	H					
Groundwater - Municipal Water Facilities		14				9.6 ^
Groundwater - Private Residence Wells		27	2	7.4	406 - 888	6.0 ^
Groundwater - School/Daycare Wells		209				6.0 ^
Bromoxynil	H					
Groundwater - Municipal Water Facilities		14				6.0 ^
Butachlor	H					
Groundwater - Municipal Water Facilities		14				5.3 ^
Carbaryl	I					
Groundwater - Municipal Water Facilities		14				12 ^
Groundwater - Private Residence Wells		27				7.5 ^
Groundwater - School/Daycare Wells		209				7.5 ^
Carbendazim (MBC)	F					
Groundwater - Municipal Water Facilities		14				1.8 ^
Carbofuran	I					
Groundwater - Municipal Water Facilities		14				0.60 ^
Groundwater - Private Residence Wells		27				4.0 ^
Groundwater - School/Daycare Wells		209				4.0 ^
Carbophenothion	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Chloramben	H					
Groundwater - Municipal Water Facilities		14				60 ^
Chlorfenvinphos total	I					
Groundwater - Municipal Water Facilities		12				7.5 ^
Chlorimuron ethyl	H					
Groundwater - Municipal Water Facilities		14				8.4 ^
Groundwater - Private Residence Wells		27				6.0 ^
Groundwater - School/Daycare Wells		209				6.0 ^
Chlorothalonil	F					
Groundwater - Private Residence Wells		27				30 - 100
Groundwater - School/Daycare Wells		209				30 - 100
Chlorpyrifos	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Chlorpyrifos methyl	I					
Groundwater - Municipal Water Facilities		12				11.3 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Clomazone	H					
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Clopyralid	H					
Groundwater - Private Residence Wells		27				12.5 ^
Groundwater - School/Daycare Wells		209				12.5 ^
Coumaphos	I					
Groundwater - Municipal Water Facilities		12				12 ^
Coumaphos oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				30 ^
Cyanazine	H					
Groundwater - Municipal Water Facilities		14				24.8 ^
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Cycloate	H					
Groundwater - Municipal Water Facilities		14				6.0 ^
DCPA	H					
Groundwater - Municipal Water Facilities		14				0.80 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
DCPA monoacid	H					
Groundwater - Municipal Water Facilities		14				222 ^
Desethyl atrazine	HM					
Groundwater - Municipal Water Facilities		14	1	7.1	41.3 ^	24.8 ^
Groundwater - Private Residence Wells		27	3	11.1	17 ^	10 ^
Groundwater - School/Daycare Wells		209	8	3.8	17 - 59.6	10 ^
Desethyl-desisopropyl atrazine	HM					
Groundwater - Private Residence Wells		27	6	22.2	25 - 2900	15 ^
Groundwater - School/Daycare Wells		209	1	0.5	25 ^	15 ^
Desisopropyl atrazine	HM					
Groundwater - Municipal Water Facilities		14				9.8 - 32.5
Groundwater - Private Residence Wells		27	5	18.5	83 - 1030	50 ^
Groundwater - School/Daycare Wells		209	3	1.4	83 ^	50 ^
Diazinon	I					
Groundwater - Municipal Water Facilities		12				4.5 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Diazinon oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				4.5 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Dicamba	H					
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
Dichlobenil	H					
Groundwater - Municipal Water Facilities		14				45 ^
Groundwater - Private Residence Wells		27				5.0 ^
Groundwater - School/Daycare Wells		209				5.0 ^
Dichlorprop	H					
Groundwater - Municipal Water Facilities		14				1.8 ^
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
Dichlorvos (DDVP)	I					
Groundwater - Municipal Water Facilities		12				11.3 - 37.5
Dicloran	F					
Groundwater - Municipal Water Facilities		14				7.5 ^
Dicofol p,p'	I					
Groundwater - Municipal Water Facilities		14				11.3 ^
Dicrotophos	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Dimethenamid	H					
Groundwater - Municipal Water Facilities		14				0.60 ^
Groundwater - Private Residence Wells		27				10 ^
Groundwater - School/Daycare Wells		209				10 ^
Dimethenamid ethanesulfonic acid (ESA)	HM					
Groundwater - Private Residence Wells		27				2.0 ^
Groundwater - School/Daycare Wells		209				2.0 ^
Dimethenamid oxanilic acid (OA)	HM					
Groundwater - Private Residence Wells		27				3.0 ^
Groundwater - School/Daycare Wells		209				3.0 ^
Dimethoate	I					
Groundwater - Municipal Water Facilities		12				7.5 ^
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Dinoseb	H					
Groundwater - Municipal Water Facilities		12				0.60 ^
Diphenamid	H					
Groundwater - Municipal Water Facilities		14				24 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Disulfoton	I					
Groundwater - Municipal Water Facilities		12				7.5 ^
Disulfoton sulfone	IM					
Groundwater - Municipal Water Facilities		12				12 ^
Groundwater - Private Residence Wells		27				6.0 ^
Groundwater - School/Daycare Wells		209				6.0 ^
Diuron	H					
Groundwater - Municipal Water Facilities		14				9.6 ^
Groundwater - Private Residence Wells		27	5	18.5	7.0 - 123	4.0 ^
Groundwater - School/Daycare Wells		209	1	0.5	134 ^	4.0 ^
Endosulfan I	I					
Groundwater - Municipal Water Facilities		14				22.5 ^
Endosulfan II	IM					
Groundwater - Municipal Water Facilities		14				18.8 ^
Endosulfan sulfate	IM					
Groundwater - Municipal Water Facilities		14				30 ^
EPTC	H					
Groundwater - Municipal Water Facilities		14				61.9 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Ethalfluralin	H					
Groundwater - Municipal Water Facilities		12				60 - 400
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Ethion	I					
Groundwater - Municipal Water Facilities		12				2.3 ^
Ethion mono oxon	IM					
Groundwater - Municipal Water Facilities		12				3.8 ^
Ethoprop	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Fenamiphos	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Fenamiphos sulfone	IM					
Groundwater - Municipal Water Facilities		12				11.3 ^
Fenamiphos sulfoxide	IM					
Groundwater - Municipal Water Facilities		12				11.3 ^
Fenarimol	F					
Groundwater - Municipal Water Facilities		14				37.5 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Fenbuconazole	F					
Groundwater - Municipal Water Facilities		14				3.0 ^
Fenitrothion	I					
Groundwater - Municipal Water Facilities		12				20 ^
Fenitrothion oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				6.0 ^
Fenpropathrin	I					
Groundwater - Municipal Water Facilities		14				60 ^
Fenthion	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Fenthion-O analog	IM					
Groundwater - Municipal Water Facilities		12				11.3 ^
Fenuron	H					
Groundwater - Municipal Water Facilities		14				15 ^
Fipronil	I					
Groundwater - Municipal Water Facilities		14				12 ^
Fludioxonil	F					
Groundwater - Municipal Water Facilities		14				37.5 ^
Flufenacet oxanilic acid (OA)	HM					
Groundwater - Private Residence Wells		27				2.5 ^
Groundwater - School/Daycare Wells		209				2.5 ^
Flumetsulam	H					
Groundwater - Municipal Water Facilities		14				6.0 ^
Fluometuron	H					
Groundwater - Municipal Water Facilities		14				1.2 ^
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Fonofos	I					
Groundwater - Municipal Water Facilities		12				7.5 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Halosulfuron	H					
Groundwater - Private Residence Wells		27				9.0 ^
Groundwater - School/Daycare Wells		209				9.0 ^
Hexazinone	H					
Groundwater - Private Residence Wells		26				3.0 ^
Groundwater - School/Daycare Wells		202				3.0 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Hydroxy atrazine	HM					
Groundwater - Private Residence Wells		27	2	7.4	3.0 - 26.5	2.0 ^
Groundwater - School/Daycare Wells		209	6	2.9	3.0 - 39.3	2.0 ^
Imazamethabenz acid	H					
Groundwater - Private Residence Wells		27				3.0 ^
Groundwater - School/Daycare Wells		209				3.0 ^
Imazamethabenz methyl	H					
Groundwater - Municipal Water Facilities		14				0.90 - 2.0
Groundwater - Private Residence Wells		27				1.5 ^
Groundwater - School/Daycare Wells		209				1.5 ^
Imazamox	H					
Groundwater - Municipal Water Facilities		14				2.4 ^
Groundwater - Private Residence Wells		27				4.0 ^
Groundwater - School/Daycare Wells		209				4.0 ^
Imazapic	H					
Groundwater - Municipal Water Facilities		14				2.4 ^
Groundwater - Private Residence Wells		27				3.0 ^
Groundwater - School/Daycare Wells		209				3.0 ^
Imazapyr	H					
Groundwater - Municipal Water Facilities		14	2	14.3	1.5 - 15	0.90 ^
Groundwater - Private Residence Wells		27	1	3.7	4.2 ^	2.5 ^
Groundwater - School/Daycare Wells		209	2	1.0	4.2 - 882	2.5 ^
Imazaquin	H					
Groundwater - Municipal Water Facilities		14				2.4 ^
Groundwater - Private Residence Wells		27				5.0 ^
Groundwater - School/Daycare Wells		209				5.0 ^
Imazethapyr	H					
Groundwater - Municipal Water Facilities		14				2.4 ^
Groundwater - Private Residence Wells		27				2.0 ^
Groundwater - School/Daycare Wells		209				2.0 ^
Imidacloprid	H					
Groundwater - Municipal Water Facilities		14	1	7.1	2.5 ^	1.5 ^
Groundwater - Private Residence Wells		26	2	7.7	22.1 - 25.4	6.0 ^
Groundwater - School/Daycare Wells		202	3	1.5	10 - 124	6.0 ^
Isofenphos	I					
Groundwater - Municipal Water Facilities		12				4.5 ^
Isoxaflutole	H					
Groundwater - Private Residence Wells		26				7.5 ^
Groundwater - School/Daycare Wells		202				7.5 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Isoxaflutole degradate	HM					
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
Lindane (BHC gamma)	I					
Groundwater - Municipal Water Facilities		14				11.3 ^
Linuron	H					
Groundwater - Municipal Water Facilities		14				3.0 ^
Groundwater - Private Residence Wells		27				6.0 ^
Groundwater - School/Daycare Wells		209				6.0 ^
Malathion	I					
Groundwater - Municipal Water Facilities		12				6.0 - 20
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Malathion oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				6.0 - 20
Groundwater - Private Residence Wells		27				600 ^
Groundwater - School/Daycare Wells		209				600 ^
MCPA	H					
Groundwater - Municipal Water Facilities		14				7.2 ^
Groundwater - Private Residence Wells		27				1.5 ^
Groundwater - School/Daycare Wells		209				1.5 ^
MCPB	H					
Groundwater - Municipal Water Facilities		14				21 ^
Groundwater - Private Residence Wells		27				3.0 ^
Groundwater - School/Daycare Wells		209				3.0 ^
Mecoprop (MCPP)	H					
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
Mesotrione	H					
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
Metalaxyl	F					
Groundwater - Municipal Water Facilities		14				22.5 - 75
Groundwater - Private Residence Wells		27				2.5 ^
Groundwater - School/Daycare Wells		209				2.5 ^
Methidathion	I					
Groundwater - Municipal Water Facilities		12				5.3 ^
Groundwater - Private Residence Wells		27				100 ^
Groundwater - School/Daycare Wells		209				100 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Methidathion oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				22.5 ^
Groundwater - Private Residence Wells		11				700 ^
Groundwater - School/Daycare Wells		120				700 ^
Methiocarb	I					
Groundwater - Municipal Water Facilities		14				15 ^
Methomyl	I					
Groundwater - Municipal Water Facilities		14				3.6 ^
Groundwater - Private Residence Wells		26				7.5 ^
Groundwater - School/Daycare Wells		202				7.5 ^
Methoxychlor olefin	IM					
Groundwater - Municipal Water Facilities		14				3.8 ^
Methoxychlor Total	I					
Groundwater - Municipal Water Facilities		14				7.5 - 25
Metolachlor	H					
Groundwater - Municipal Water Facilities		14				3.0 ^
Groundwater - Private Residence Wells		27				15 ^
Groundwater - School/Daycare Wells		209				15 ^
Metolachlor ethanesulfonic acid (ESA)	HM					
Groundwater - Municipal Water Facilities		14	3	21.4	6.2 - 84	3.7 - 4.8
Groundwater - Private Residence Wells		27	6	22.2	5.0 - 26.5	3.0 ^
Groundwater - School/Daycare Wells		209	27	12.9	5.0 - 520	3.0 ^
Metolachlor oxanilic acid (OA)	HM					
Groundwater - Municipal Water Facilities		14	2	14.3	8.0 ^	4.8 ^
Groundwater - Private Residence Wells		27	1	3.7	5.0 ^	3.0 ^
Groundwater - School/Daycare Wells		209	11	5.3	5.0 - 84.6	3.0 ^
Metribuzin	H					
Groundwater - Municipal Water Facilities		14				22.5 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Metribuzin DA	HM					
Groundwater - Private Residence Wells		26				6.0 ^
Groundwater - School/Daycare Wells		202				6.0 ^
Metsulfuron methyl	H					
Groundwater - Municipal Water Facilities		14				8.4 ^
Groundwater - Private Residence Wells		27				7.0 ^
Groundwater - School/Daycare Wells		209				7.0 ^
Mevinphos Total	I					
Groundwater - Municipal Water Facilities		12				75 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Molinate	H					
Groundwater - Municipal Water Facilities		14				9.8 ^
Monuron	H					
Groundwater - Municipal Water Facilities		14	1	7.1	10 ^	6.0 ^
Myclobutanil	F					
Groundwater - Municipal Water Facilities		14				9.6 ^
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Napropamide	H					
Groundwater - Municipal Water Facilities		14				24 ^
Neburon	H					
Groundwater - Municipal Water Facilities		14				1.2 ^
Groundwater - Private Residence Wells		27				3.0 ^
Groundwater - School/Daycare Wells		209				3.0 ^
Nicosulfuron	H					
Groundwater - Municipal Water Facilities		14				4.8 ^
Groundwater - Private Residence Wells		27				8.0 ^
Groundwater - School/Daycare Wells		209				8.0 ^
Norflurazon	H					
Groundwater - Municipal Water Facilities		14				18.8 ^
Groundwater - Private Residence Wells		26	2	7.7	39.6 - 352	6.0 ^
Groundwater - School/Daycare Wells		202	1	0.5	10 ^	6.0 ^
Norflurazon desmethyl	HM					
Groundwater - Municipal Water Facilities		12				37.5 - 125
Oxadiazon	H					
Groundwater - Municipal Water Facilities		14				15 ^
Oxadixyl	F					
Groundwater - Municipal Water Facilities		14				48.8 ^
Oxamyl	I					
Groundwater - Municipal Water Facilities		14				18 - 60
Groundwater - Private Residence Wells		26				7.5 ^
Groundwater - School/Daycare Wells		202				7.5 ^
Oxydemeton methyl sulfone	IM					
Groundwater - Municipal Water Facilities		12				22.5 ^
Oxyfluorfen	H					
Groundwater - Municipal Water Facilities		14				11.3 ^
Parathion	I					
Groundwater - Municipal Water Facilities		12				15 - 50

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Parathion oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				7.5 ^
Parathion methyl	I					
Groundwater - Municipal Water Facilities		12				18.8 - 62.5
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Parathion methyl oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				9.8 ^
Pebulate	H					
Groundwater - Municipal Water Facilities		14				3.8 - 12.5
Pendimethalin	H					
Groundwater - Municipal Water Facilities		14				4.5 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Permethrin cis	IM					
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Permethrin trans	IM					
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Phenthoate	I					
Groundwater - Municipal Water Facilities		14				15 ^
Phorate	I					
Groundwater - Municipal Water Facilities		12				15 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Phorate oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				5.3 ^
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Phorate sulfone	IM					
Groundwater - Municipal Water Facilities		12				6.0 ^
Groundwater - Private Residence Wells		27				100 ^
Groundwater - School/Daycare Wells		209				100 ^
Phorate sulfoxide	IM					
Groundwater - Municipal Water Facilities		12				22.5 ^
Groundwater - Private Residence Wells		27				100 ^
Groundwater - School/Daycare Wells		209				100 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Phosalone	I					
Groundwater - Municipal Water Facilities		12				4.5 ^
Phosphamidon	I					
Groundwater - Municipal Water Facilities		12				12 - 40
Picloram	H					
Groundwater - Municipal Water Facilities		14				30 ^
Groundwater - Private Residence Wells		27				12.5 ^
Groundwater - School/Daycare Wells		209				12.5 ^
Piperonyl butoxide	I					
Groundwater - Municipal Water Facilities		14				11.3 ^
Pirimicarb	I					
Groundwater - Municipal Water Facilities		14				37.5 ^
Pirimiphos methyl	I					
Groundwater - Municipal Water Facilities		12				2.3 ^
Profenofos	I					
Groundwater - Municipal Water Facilities		12				12 ^
Prometon	H					
Groundwater - Municipal Water Facilities		14	1	7.1	2.5 ^	1.5 - 5.0
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Prometryn	H					
Groundwater - Municipal Water Facilities		14				24 ^
Groundwater - Private Residence Wells		27				1.0 ^
Groundwater - School/Daycare Wells		209				1.0 ^
Pronamide	H					
Groundwater - Municipal Water Facilities		12				22.5 - 75
Propachlor	H					
Groundwater - Municipal Water Facilities		14				5.3 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Propachlor ESA	HM					
Groundwater - Private Residence Wells		16				9.0 ^
Groundwater - School/Daycare Wells		89				9.0 ^
Propachlor oxanilic acid (OA)	HM					
Groundwater - Private Residence Wells		27				3.0 ^
Groundwater - School/Daycare Wells		209				3.0 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Propanil	H					
Groundwater - Municipal Water Facilities		14				24.8 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Propargite	I					
Groundwater - Municipal Water Facilities		12				90 - 300
Propazine	H					
Groundwater - Municipal Water Facilities		14				4.5 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Propetamphos	I					
Groundwater - Municipal Water Facilities		12				9.8 ^
Propham	H					
Groundwater - Municipal Water Facilities		14				18 ^
Propiconazole	F					
Groundwater - Municipal Water Facilities		14				6.0 ^
Groundwater - Private Residence Wells		27				50 ^
Groundwater - School/Daycare Wells		209				50 ^
Propoxur	I					
Groundwater - Municipal Water Facilities		14				24.8 ^
Groundwater - Private Residence Wells		27				3.0 ^
Groundwater - School/Daycare Wells		209	1	0.5	5.0 ^	3.0 ^
Quintozene (PCNB)	F					
Groundwater - Municipal Water Facilities		14				11.3 ^
Saflufenacil	H					
Groundwater - Private Residence Wells		26				4.5 ^
Groundwater - School/Daycare Wells		202				4.5 ^
Siduron	H					
Groundwater - Municipal Water Facilities		14				2.4 ^
Groundwater - Private Residence Wells		27				2.0 ^
Groundwater - School/Daycare Wells		209	1	0.5	3.0 ^	2.0 ^
Simazine	H					
Groundwater - Municipal Water Facilities		14	1	7.1	6.3 ^	3.8 ^
Groundwater - Private Residence Wells		27	3	11.1	50 ^	30 ^
Groundwater - School/Daycare Wells		209				30 ^
Sulfometuron methyl	H					
Groundwater - Municipal Water Facilities		14				12 ^
Groundwater - Private Residence Wells		27				2.5 ^
Groundwater - School/Daycare Wells		209	1	0.5	35 ^	2.5 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Sulfotep	I					
Groundwater - Municipal Water Facilities		12				4.5 - 4.7
Sulprofos	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Tebuconazole	F					
Groundwater - Municipal Water Facilities		14				4.8 ^
Groundwater - Private Residence Wells		27	1	3.7	83 ^	50 ^
Groundwater - School/Daycare Wells		209				50 ^
Tebupirimfos	I					
Groundwater - Municipal Water Facilities		12				5.3 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Tebupirimfos oxygen analog	IM					
Groundwater - Municipal Water Facilities		12				4.5 ^
Tebuthiuron	H					
Groundwater - Municipal Water Facilities		14	1	7.1	1.0 ^	0.60 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Tecnazene	P					
Groundwater - Municipal Water Facilities		14				18.8 ^
Tembotrione	H					
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
Terbacil	H					
Groundwater - Municipal Water Facilities		14				22.5 ^
Terbufos	I					
Groundwater - Municipal Water Facilities		12				11.3 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Terbufos sulfone	IM					
Groundwater - Municipal Water Facilities		12				4.5 ^
Terbufos-O analog	IM					
Groundwater - Municipal Water Facilities		12				6.0 ^
Tetrachlorvinphos	I					
Groundwater - Municipal Water Facilities		12				6.0 ^
Tetraconazole	F					
Groundwater - Municipal Water Facilities		14				1.8 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^

Pesticide / Commodity / Well Type	Pest. Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt
Tetradifon	I					
Groundwater - Municipal Water Facilities		14				37.5 ^
Thiamethoxam	I					
Groundwater - Private Residence Wells		26				7.5 ^
Groundwater - School/Daycare Wells		202				7.5 ^
Thifensulfuron	H					
Groundwater - Private Residence Wells		27				5.0 ^
Groundwater - School/Daycare Wells		209				5.0 ^
Thiobencarb	H					
Groundwater - Municipal Water Facilities		14				18 ^
Groundwater - Private Residence Wells		27				2.5 ^
Groundwater - School/Daycare Wells		209				2.5 ^
Tri Allate	H					
Groundwater - Municipal Water Facilities		14				24.8 - 82.5
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Triadimefon	F					
Groundwater - Municipal Water Facilities		14				8.4 ^
Triasulfuron	H					
Groundwater - Private Residence Wells		27				7.0 ^
Groundwater - School/Daycare Wells		209				7.0 ^
Triclopyr	H					
Groundwater - Municipal Water Facilities		14				6.0 ^
Groundwater - Private Residence Wells		16				15 ^
Groundwater - School/Daycare Wells		89				15 ^
Trifluralin	H					
Groundwater - Municipal Water Facilities		14				1.5 ^
Groundwater - Private Residence Wells		27				30 ^
Groundwater - School/Daycare Wells		209				30 ^
Triticonazole	F					
Groundwater - Private Residence Wells		27				500 ^
Groundwater - School/Daycare Wells		209				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
P = Plant Growth Regulator

Appendix G

Distribution of Residues by Pesticide in Drinking Water

Appendix G 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 2010, the Pesticide Data Program (PDP) analyzed 567 drinking water samples, including 284 finished drinking water samples and 283 untreated (raw intake) drinking water samples. PDP detected 65 different residues (including metabolites), representing 53 pesticides, in finished drinking water and 54 different residues (including metabolites), representing 43 pesticides, in the untreated intake water; most of the detections were herbicides. Two of the finished drinking water samples exceeded the EPA MCL for Atrazine. None of the finished drinking water samples exceeded EPA 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.

Results for environmental contaminants across all commodities, including drinking water, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H).

APPENDIX G. DISTRIBUTION OF RESIDUES BY PESTICIDE IN DRINKING WATER

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA[2], ppt [1]	EPA FAO[3], ppt [1]
2,4,5-T	H								
Water, Finished		284				1.6 - 1.8		70,000	
Water, Untreated		282				1.6 - 1.8			
2,4-D	H								
Water, Finished		284	224	78.9	1.1 - 1000	0.65 - 3.6	70,000		
Water, Untreated		282	233	82.6	1.1 - 630	0.65 - 3.6			
2,4-DB	H								
Water, Finished		284				14 - 30			
Water, Untreated		282				14 - 30			
3-Hydroxycarbofuran	IM								
Water, Finished		95				24 ^			
Water, Untreated		93				24 ^			
Acetamiprid	I								
Water, Finished		189				3.0 ^			
Water, Untreated		189				3.0 ^			
Acetochlor	H								
Water, Finished		284	9	3.2	15.3 - 153	9.2 - 30			
Water, Untreated		283	15	5.3	15.3 - 187	9.2 - 30			
Acetochlor ethanesulfonic acid (ESA)	HM								
Water, Finished		284	122	43.0	2.7 - 800	1.6 - 4.8			
Water, Untreated		282	124	44.0	2.7 - 1300	1.6 - 4.8			
Acetochlor oxanilic acid (OA)	HM								
Water, Finished		284	128	45.1	2.3 - 990	1.4 - 4.8			
Water, Untreated		282	126	44.7	2.3 - 1400	1.4 - 4.8			
Alachlor	H								
Water, Finished		284	1	0.4	42 ^	7.8 - 9.8	2,000		
Water, Untreated		283				7.8 - 9.8			
Alachlor ethanesulfonic acid (ESA)	HM								
Water, Finished		284	112	39.4	2.8 - 58	1.7 - 4.8			
Water, Untreated		282	118	41.8	2.8 - 91	1.7 - 4.8			
Alachlor oxanilic acid (OA)	HM								
Water, Finished		284	96	33.8	1.0 - 16	0.61 - 4.8			
Water, Untreated		282	97	34.4	1.0 - 28	0.61 - 4.8			
Aldicarb	I								
Water, Finished		91				5.3 ^	3,000	7,000	
Water, Untreated		90				5.3 ^			
Aldicarb sulfone	IM								
Water, Finished		189				7.6 ^	2,000	7,000	
Water, Untreated		189				7.6 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA[2], ppt [1]	EPA FAO[3], ppt [1]
Aldicarb sulfoxide	IM								
Water, Finished		189				15 ^	4,000	7,000	
Water, Untreated		189				15 ^			
Atrazine	H								
Water, Finished		284	282	99.3	1.1 - 4200	0.66 - 2.3	3,000		
Water, Untreated		283	282	99.6	1.1 - 11773	0.66 - 2.2			
Azinphos methyl	I								
Water, Finished		276	1	0.4	45 ^	10 - 18.8			
Water, Untreated		275				10 - 18.8			
Azinphos methyl oxygen analog	IM								
Water, Finished		189				8.7 ^			
Water, Untreated		189				8.7 ^			
Azoxystrobin	F								
Water, Finished		189	28	14.8	5.0 - 390	3.0 ^			
Water, Untreated		189	25	13.2	5.0 - 240	3.0 ^			
Benfluralin	H								
Water, Finished		95				11.3 ^			
Water, Untreated		94				11.3 ^			
Bensulfuron methyl	H								
Water, Finished		284				1.2 - 1.5			
Water, Untreated		282	1	0.4	21 ^	1.2 - 1.5			
Bentazon	H								
Water, Finished		284	102	35.9	0.30 - 18	0.18 - 1.2		200,000	
Water, Untreated		282	134	47.5	0.30 - 29	0.18 - 1.2			
Bifenthrin	I								
Water, Finished		189	1	0.5	36 ^	3.2 ^			
Water, Untreated		189				3.2 ^			
Bromacil	H								
Water, Finished		284	1	0.4	8.6 ^	2.5 - 9.6		70,000	
Water, Untreated		282	53	18.8	4.2 - 410	2.5 - 9.6			
Bromoxynil	H								
Water, Finished		95				6.0 ^			
Water, Untreated		93				6.0 ^			
Bromuconazole 46 (trans)	FM								
Water, Finished		189				3.2 ^			
Water, Untreated		189				3.2 ^			
Bromuconazole 47 (cis)	FM								
Water, Finished		189				5.4 ^			
Water, Untreated		189				5.4 ^			
Butachlor	H								
Water, Finished		284				1.9 - 5.3			
Water, Untreated		283				1.9 - 5.3			
Butylate	H								
Water, Finished		189				1.8 ^		400,000	
Water, Untreated		189				1.8 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA[2], ppt [1]	EPA FAO[3], ppt [1]
Carbaryl	I								
Water, Finished		284	1	0.4	38 ^	12 - 23			
Water, Untreated		282				12 - 23			
Carbendazim (MBC)	F								
Water, Finished		95				1.8 ^			
Water, Untreated		93				1.8 ^			
Carbofuran	I								
Water, Finished		284				0.60 - 1.0	40,000		
Water, Untreated		282				0.60 - 1.0			
Carbophenothion	I								
Water, Finished		91				6.0 ^			
Water, Untreated		90				6.0 ^			
Chloramben	H								
Water, Finished		95				60 ^		100,000	
Water, Untreated		93				60 ^			
Chlorantraniliprole	I								
Water, Finished		189				3.0 ^			
Water, Untreated		189				3.0 ^			
Chlorfenvinphos total	I								
Water, Finished		280				7.5 - 9.6			
Water, Untreated		279				7.5 - 9.6			
Chlorimuron ethyl	H								
Water, Finished		284	1	0.4	22 ^	8.4 - 13			
Water, Untreated		282	6	2.1	22 - 52	8.4 - 13			
Chlorothalonil	F								
Water, Finished		189				5.2 ^			
Water, Untreated		189				5.2 ^			
Chlorpyrifos	I								
Water, Finished		91				6.0 ^		2,000	
Water, Untreated		90				6.0 ^			83
Chlorpyrifos methyl	I								
Water, Finished		91				11.3 ^			
Water, Untreated		90				11.3 ^			
Clopyralid	H								
Water, Finished		189	26	13.8	5.7 - 37	3.4 ^			
Water, Untreated		189	20	10.6	5.7 - 48	3.4 ^			
Clothianidin	I								
Water, Finished		189	6	3.2	8.0 ^	4.8 ^			
Water, Untreated		189	6	3.2	8.0 ^	4.8 ^			
Coumaphos	I								
Water, Finished		91				12 ^			
Water, Untreated		90				12 ^			
Coumaphos oxygen analog	IM								
Water, Finished		91				30 ^			
Water, Untreated		90				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]
Cyanazine	H								
Water, Finished		284				1.7 - 24.8		1000	
Water, Untreated		283				1.7 - 24.8			
Cycloate	H								
Water, Finished		284				3.3 - 6.0			
Water, Untreated		282				3.3 - 6.0			
Cyfluthrin	I								
Water, Finished		189				40 ^			
Water, Untreated		189				40 ^			
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I								
Water, Finished		189				42 ^			
Water, Untreated		189				42 ^			
Cypermethrin	I								
Water, Finished		189				74 ^			
Water, Untreated		189				74 ^			
Cyphenothrin	I								
Water, Finished		189				14 ^			
Water, Untreated		189				14 ^			
Cyproconazole	F								
Water, Finished		189				1.6 ^			
Water, Untreated		189				1.6 ^			
DCPA	H								
Water, Finished		95				0.80 ^		70,000	
Water, Untreated		94				0.75 ^			
DCPA monoacid	H								
Water, Finished		95				222 ^			
Water, Untreated		93				222 ^			
Deltamethrin (includes parent Tralomethrin)	I								
Water, Finished		189				84 ^			
Water, Untreated		189				84 ^			
Desethyl atrazine	HM								
Water, Finished		284	243	85.6	0.72 - 457	0.43 - 24.8			
Water, Untreated		283	235	83.0	0.72 - 664	0.43 - 24.8			170
Desisopropyl atrazine	HM								
Water, Finished		284	160	56.3	5.2 - 138	3.1 - 32.5			
Water, Untreated		283	161	56.9	5.2 - 255	3.1 - 32.5			
Diazinon	I								
Water, Finished		280	1	0.4	59 ^	3.3 - 4.5		1,000	
Water, Untreated		279				3.3 - 4.5			170
Diazinon oxygen analog	IM								
Water, Finished		91				4.5 ^			
Water, Untreated		90				4.5 ^			

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]
Dicamba	H								
Water, Finished		189				67 ^		4,000,000	
Water, Untreated		189	1	0.5	112 ^	67 ^			
Dichlobenil	H								
Water, Finished		95				45 ^			
Water, Untreated		94				45 ^			
Dichlorprop	H								
Water, Finished		284				1.7 - 1.8			
Water, Untreated		282				1.7 - 1.8			
Dichlorvos (DDVP)	I								
Water, Finished		91				11.3 - 37.5			
Water, Untreated		90				11.3 - 37.5			
Dicloran	F								
Water, Finished		95				7.5 ^			
Water, Untreated		94				7.5 ^			
Dicofol p,p'	I								
Water, Finished		280				11.3 - 23			
Water, Untreated		279				11.3 - 23			
Dicrotophos	I								
Water, Finished		91				6.0 ^			
Water, Untreated		90				6.0 ^			
Difenoconazole	F								
Water, Finished		189				6.3 ^			
Water, Untreated		189				6.3 ^			
Dimethenamid	H								
Water, Finished		95	5	5.3	1.0 - 5.3	0.60 ^			
Water, Untreated		93	28	30.1	1.0 - 33	0.60 ^			
Dimethenamid oxanilic acid (OA)	HM								
Water, Finished		189	29	15.3	1.0 - 8.8	0.63 ^			
Water, Untreated		189	59	31.2	1.0 - 31	0.63 ^			
Dimethenamid/Dimethenamid P	H								
Water, Finished		189	10	5.3	4.2 - 47	2.5 ^			
Water, Untreated		189	25	13.2	4.2 - 140	2.5 ^			
Dimethoate	I								
Water, Finished		280				4.5 - 7.5			
Water, Untreated		279				4.5 - 7.5			
Dinoseb	H								
Water, Finished		280				0.60 - 0.78	7,000	7,000	
Water, Untreated		278	1	0.4	1.0 ^	0.60 - 0.78			
Diphenamid	H								
Water, Finished		95				24 ^		200,000	
Water, Untreated		94				24 ^			
Disulfoton	I								
Water, Finished		280				7.5 - 8.6		700	
Water, Untreated		279				7.5 - 8.6			

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]
Disulfoton sulfone	IM								
Water, Finished		280				4.1 - 12			
Water, Untreated		279				4.1 - 12			
Diuron	H								
Water, Finished		284	50	17.6	5.8 - 1300	3.5 - 9.6			
Water, Untreated		282	70	24.8	5.8 - 1200	3.5 - 9.6			
Endosulfan I	I								
Water, Finished		95				22.5 ^			
Water, Untreated		94				22.5 ^			220
Endosulfan II	IM								
Water, Finished		95				18.8 ^			
Water, Untreated		94				18.8 ^			220
Endosulfan sulfate	IM								
Water, Finished		95				30 ^			
Water, Untreated		94				30 ^			
Epoxiconazole	F								
Water, Finished		189				6.9 ^			
Water, Untreated		189				6.9 ^			
EPTC	H								
Water, Finished		284				5.0 - 61.9			
Water, Untreated		283				5.0 - 61.9			
Esfenvalerate+Fenvalerate Total	I								
Water, Finished		189				38 ^			
Water, Untreated		189				38 ^			
Ethalfluralin	H								
Water, Finished		91				60 - 400			
Water, Untreated		90				60 - 400			
Ethion	I								
Water, Finished		280				2.3 - 25			
Water, Untreated		279				2.3 - 25			
Ethion mono oxon	IM								
Water, Finished		91				3.8 ^			
Water, Untreated		90				3.8 ^			
Ethoprop	I								
Water, Finished		280	1	0.4	27 ^	5.3 - 6.0			
Water, Untreated		279				5.3 - 6.0			
Fenamiphos	I								
Water, Finished		91				6.0 ^		700	
Water, Untreated		90				6.0 ^			
Fenamiphos sulfone	IM								
Water, Finished		91				11.3 ^			
Water, Untreated		90				11.3 ^			
Fenamiphos sulfoxide	IM								
Water, Finished		91				11.3 ^			
Water, Untreated		90				11.3 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA[2], ppt [1]	EPA FAO[3], ppt [1]
Fenarimol	F								
Water, Finished		95				37.5 ^			
Water, Untreated		94				37.5 ^			
Fenbuconazole	F								
Water, Finished		284	1	0.4	57 ^	2.4 - 3.0			
Water, Untreated		282				2.4 - 3.0			
Fenitrothion	I								
Water, Finished		280				13 - 20			
Water, Untreated		279				13 - 20			
Fenitrothion oxygen analog	IM								
Water, Finished		91				6.0 ^			
Water, Untreated		90				6.0 ^			
Fenpropathrin	I								
Water, Finished		284				14 - 60			
Water, Untreated		283				14 - 60			
Fenthion	I								
Water, Finished		280				6.0 - 22			
Water, Untreated		279				6.0 - 22			
Fenthion-O analog	IM								
Water, Finished		91				11.3 ^			
Water, Untreated		90				11.3 ^			
Fenuron	H								
Water, Finished		95				15 ^			
Water, Untreated		93				15 ^			
Fipronil	I								
Water, Finished		284				0.35 - 12			
Water, Untreated		282				0.35 - 12			
Fludioxonil	F								
Water, Finished		95				37.5 ^			
Water, Untreated		94				37.5 ^			
Flufenacet oxanilic acid (OA)	HM								
Water, Finished		189	3	1.6	1.2 ^	0.75 ^			
Water, Untreated		189	2	1.1	1.2 ^	0.75 ^			
Flumetsulam	H								
Water, Finished		284	1	0.4	33 ^	6.0 - 20			
Water, Untreated		282	1	0.4	33 ^	6.0 - 20			
Fluometuron	H								
Water, Finished		284	3	1.1	7.0 ^	1.2 - 4.2		90,000	
Water, Untreated		282	3	1.1	7.0 ^	1.2 - 4.2			
Fluvalinate	I								
Water, Finished		189				130 ^			
Water, Untreated		189				130 ^			
Fonofos	I								
Water, Finished		91				7.5 ^		10,000	
Water, Untreated		90				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]
Halosulfuron methyl	H								
Water, Finished		189				3.3 ^			
Water, Untreated		189				3.3 ^			
Hexaconazole	F								
Water, Finished		189				11 ^			
Water, Untreated		189				11 ^			
Hexazinone	H								
Water, Finished		189	4	2.1	2.5 - 87	1.5 ^		400,000	
Water, Untreated		189	4	2.1	2.5 - 110	1.5 ^			
Hydroxy atrazine	HM								
Water, Finished		189	189	100	2.0 - 440	1.2 ^			
Water, Untreated		189	187	98.9	2.0 - 510	1.2 ^			
Imazamethabenz acid	H								
Water, Finished		189	14	7.4	1.0 - 3.5	0.60 ^			
Water, Untreated		189	14	7.4	1.0 - 2.9	0.60 ^			
Imazamethabenz methyl	H								
Water, Finished		284	2	0.7	0.52 ^	0.31 - 2.0			
Water, Untreated		282	9	3.2	0.52 - 1.8	0.31 - 2.0			
Imazamox	H								
Water, Finished		284	1	0.4	24 ^	2.4 - 3.1			
Water, Untreated		282				2.4 - 3.1			
Imazapic	H								
Water, Finished		284	7	2.5	1.5 ^	0.90 - 2.4			
Water, Untreated		282	5	1.8	1.5 ^	0.90 - 2.4			
Imazapyr	H								
Water, Finished		284	142	50.0	1.5 - 200	0.90 - 1.0			
Water, Untreated		282	139	49.3	1.5 - 210	0.90 - 1.0			
Imazaquin	H								
Water, Finished		284	7	2.5	1.8 - 47	1.1 - 2.4			
Water, Untreated		282	6	2.1	1.8 ^	1.1 - 2.4			
Imazethapyr	H								
Water, Finished		284	30	10.6	2.0 - 15	1.0 - 2.4			
Water, Untreated		282	24	8.5	2.0 - 19	1.0 - 2.4			
Imidacloprid	I								
Water, Finished		284	32	11.3	2.5 - 67	1.5 - 6.2			
Water, Untreated		282	42	14.9	2.5 - 60	1.5 - 6.2			
Isofenphos	I								
Water, Finished		91				4.5 ^			
Water, Untreated		90				4.5 ^			
Lindane (BHC gamma)	I								
Water, Finished		284				11.3 - 20	200		
Water, Untreated		283				11.3 - 20			950
Linuron	H								
Water, Finished		284	1	0.4	64 ^	3.0 - 4.5			
Water, Untreated		282				3.0 - 4.5			

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]
Malathion	I								
Water, Finished		280	2	0.7	50 - 76	6.0 - 20		500,000	
Water, Untreated		279				6.0 - 20			
Malathion oxygen analog	IM								
Water, Finished		91				6.0 - 20			
Water, Untreated		90				6.0 - 20			
MCPA	H								
Water, Finished		284	38	13.4	1.3 - 42	0.78 - 7.2		30,000	
Water, Untreated		282	48	17.0	1.3 - 120	0.78 - 7.2			
MCPB	H								
Water, Finished		284				6.6 - 21			
Water, Untreated		282				6.6 - 21			
Metalaxyl	F								
Water, Finished		284	19	6.7	5.0 - 37.5	3.0 - 75			
Water, Untreated		283	23	8.1	5.0 - 37.5	3.0 - 75			
Methidathion	I								
Water, Finished		91				5.3 ^			
Water, Untreated		90				5.3 ^			
Methidathion oxygen analog	IM								
Water, Finished		91				22.5 ^			
Water, Untreated		90				22.5 ^			
Methiocarb	I								
Water, Finished		95				15 ^			
Water, Untreated		93				15 ^			
Methomyl	I								
Water, Finished		284				3.6 - 7.3		200,000	
Water, Untreated		282	1	0.4	12.2 ^	3.6 - 7.3			
Methoxychlor olefin	IM								
Water, Finished		95				3.8 ^	40,000	40,000	
Water, Untreated		94				3.8 ^			
Methoxychlor Total	I								
Water, Finished		95				7.5 - 25	40,000	40,000	
Water, Untreated		94				7.5 - 25			
Metolachlor	H								
Water, Finished		284	168	59.2	2.5 - 899	1.5 - 3.0		700,000	
Water, Untreated		283	171	60.4	2.5 - 1437	1.5 - 3.0			
Metolachlor ethanesulfonic acid (ESA)	HM								
Water, Finished		284	204	71.8	0.60 - 928	0.36 - 4.8			
Water, Untreated		282	214	75.9	0.60 - 765	0.36 - 4.8			
Metolachlor oxanilic acid (OA)	HM								
Water, Finished		284	172	60.6	5.3 - 300	3.2 - 4.8			
Water, Untreated		282	170	60.3	5.3 - 434	3.2 - 4.8			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA[2], ppt [1]	EPA FAO[3], ppt [1]
Metribuzin	H								
Water, Finished		95				22.5 ^		70,000	
Water, Untreated		94	1	1.1	106 ^	22.5 ^			
Metsulfuron methyl	H								
Water, Finished		284	6	2.1	2.5 - 7.6	1.5 - 8.4			
Water, Untreated		282	8	2.8	2.5 - 11	1.5 - 8.4			
Mevinphos Total	I								
Water, Finished		91				75 ^			
Water, Untreated		90				75 ^			
Molinate	H								
Water, Finished		95				9.8 ^			
Water, Untreated		94				9.8 ^			
Monuron	H								
Water, Finished		95				6.0 ^			
Water, Untreated		93				6.0 ^			
Myclobutanil	F								
Water, Finished		284				2.9 - 9.6			
Water, Untreated		282				2.9 - 9.6			
Napropamide	H								
Water, Finished		91				24 ^			
Water, Untreated		90				24 ^			
Neburon	H								
Water, Finished		284				1.2 - 9.4			
Water, Untreated		282				1.2 - 9.4			
Nicosulfuron	H								
Water, Finished		276				1.7 - 4.8			
Water, Untreated		274	1	0.4	8.0 ^	1.7 - 4.8			
Norflurazon	H								
Water, Finished		284				4.8 - 125			
Water, Untreated		283				4.8 - 125			
Norflurazon desmethyl	HM								
Water, Finished		87				37.5 - 125			
Water, Untreated		86				37.5 - 125			
Omethoate	IM								
Water, Finished		189				0.30 ^			
Water, Untreated		189				0.30 ^			
Oxadiazon	H								
Water, Finished		95				15 - 100			
Water, Untreated		94				15 - 100			
Oxadixyl	F								
Water, Finished		95				48.8 ^			
Water, Untreated		94				48.8 ^			
Oxamyl	I								
Water, Finished		284				3.0 - 60	200,000		
Water, Untreated		282				3.0 - 60			

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]
Oxydemeton methyl sulfone	IM								
Water, Finished		91				22.5 ^			
Water, Untreated		90				22.5 ^			
Oxyfluorfen	H								
Water, Finished		95				11.3 - 37.5			
Water, Untreated		94				11.3 - 37.5			
Parathion	I								
Water, Finished		280				15 - 50			
Water, Untreated		279				15 - 50			65
Parathion oxygen analog	IM								
Water, Finished		91				7.5 ^			
Water, Untreated		90				7.5 ^			
Parathion methyl	I								
Water, Finished		280				18.8 - 62.5			
Water, Untreated		279				18.8 - 62.5			65
Parathion methyl oxygen analog	IM								
Water, Finished		280				9.8 - 11			
Water, Untreated		279				9.8 - 11			
Pebulate	H								
Water, Finished		95				3.8 - 12.5			
Water, Untreated		94				3.8 - 12.5			
Pendimethalin	H								
Water, Finished		95				4.5 ^			
Water, Untreated		94				4.5 ^			
Permethrin cis	IM								
Water, Finished		189				9.0 ^			
Water, Untreated		189				9.0 ^			
Permethrin trans	IM								
Water, Finished		189				7.5 ^			
Water, Untreated		189				7.5 ^			
Phenothrin	I								
Water, Finished		189				27 ^			
Water, Untreated		189				27 ^			
Phenthoate	I								
Water, Finished		95				15 ^			
Water, Untreated		94				15 ^			
Phorate	I								
Water, Finished		280	1	0.4	78 ^	12 - 15			
Water, Untreated		279				12 - 15			
Phorate oxygen analog	IM								
Water, Finished		91				5.3 ^			
Water, Untreated		90				5.3 ^			
Phorate sulfone	IM								
Water, Finished		91				6.0 ^			
Water, Untreated		90				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]
Phorate sulfoxide	IM								
Water, Finished		91				22.5 ^			
Water, Untreated		90				22.5 ^			
Phosalone	I								
Water, Finished		91				4.5 ^			
Water, Untreated		90				4.5 ^			
Phosphamidon	I								
Water, Finished		91				12 - 40			
Water, Untreated		90				12 - 40			
Picloram	H								
Water, Finished		284	2	0.7	37 ^	22 - 30	500,000		
Water, Untreated		282	4	1.4	37 - 81	22 - 30			
Piperonyl butoxide	I								
Water, Finished		95				11.3 ^			
Water, Untreated		94				11.3 ^			
Pirimicarb	I								
Water, Finished		95				37.5 ^			
Water, Untreated		94				37.5 ^			
Pirimiphos methyl	I								
Water, Finished		91				2.3 ^			
Water, Untreated		90				2.3 ^			
Prallethrin	I								
Water, Finished		189				25 ^			
Water, Untreated		189				25 ^			
Profenofos	I								
Water, Finished		91				12 ^			
Water, Untreated		90				12 ^			
Prometon	H								
Water, Finished		284	187	65.8	0.28 - 30	0.17 - 5.0		400,000	
Water, Untreated		283	205	72.4	0.28 - 42	0.17 - 5.0			
Prometryn	H								
Water, Finished		284	1	0.4	0.28 ^	0.17 - 24			
Water, Untreated		283	16	5.7	0.28 - 3.1	0.17 - 24			
Pronamide	H								
Water, Finished		91				22.5 - 75			
Water, Untreated		90				22.5 - 75			
Propachlor	H								
Water, Finished		284				0.64 - 5.3			
Water, Untreated		283				0.64 - 5.3			
Propachlor oxanilic acid (OA)	HM								
Water, Finished		189				1.4 ^			
Water, Untreated		189				1.4 ^			
Propanil	H								
Water, Finished		284				6.7 - 24.8			
Water, Untreated		283				6.7 - 24.8			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA[2], ppt [1]	EPA FAO[3], ppt [1]
Propargite	I								
Water, Finished		91				90 - 600			
Water, Untreated		90				90 - 600			
Propazine	H								
Water, Finished		284	16	5.6	5.5 - 32	3.3 - 4.5		10,000	
Water, Untreated		283	23	8.1	5.5 - 26	3.3 - 4.5			
Propetamphos	I								
Water, Finished		91				9.8 ^			
Water, Untreated		90				9.8 ^			
Propham	H								
Water, Finished		95				18 ^		100,000	
Water, Untreated		93				18 ^			
Propiconazole	F								
Water, Finished		284	7	2.5	5.7 - 11	3.4 - 6.0			
Water, Untreated		282	6	2.1	5.7 ^	3.4 - 6.0			
Propoxur	I								
Water, Finished		95				24.8 ^			
Water, Untreated		94				24.8 ^			
Quintozene (PCNB)	F								
Water, Finished		95				11.3 ^			
Water, Untreated		94				11.3 ^			
Resmethrin	I								
Water, Finished		189				7.8 ^			
Water, Untreated		189				7.8 ^			
Siduron	H								
Water, Finished		284				2.1 - 2.4			
Water, Untreated		282				2.1 - 2.4			
Simazine	H								
Water, Finished		284	168	59.2	1.2 - 110	0.71 - 3.8	4,000		
Water, Untreated		283	181	64.0	1.2 - 240	0.71 - 3.8			
Sulfometuron methyl	H								
Water, Finished		284	8	2.8	3.2 - 22	1.9 - 12			
Water, Untreated		282	20	7.1	3.2 - 27	1.9 - 12			
Sulfotep	I								
Water, Finished		91				4.5 - 4.7			
Water, Untreated		90				4.5 - 4.7			
Sulprofos	I								
Water, Finished		91				6.0 ^			
Water, Untreated		90				6.0 ^			
Tebuconazole	F								
Water, Finished		284	10	3.5	5.8 - 32	3.5 - 4.8			
Water, Untreated		282	9	3.2	5.8 - 150	3.5 - 4.8			
Tebupirimfos	I								
Water, Finished		91				5.3 ^			
Water, Untreated		90				5.3 ^			

Pesticide / Commodity	Pest. Type	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA[2], ppt [1]	EPA FAO[3], ppt [1]
Tebupirimfos oxygen analog	IM								
Water, Finished		91				4.5 ^			
Water, Untreated		90				4.5 ^			
Tebuthiuron	H								
Water, Finished		284	196	69.0	0.35 - 18	0.21 - 0.60		500,000	
Water, Untreated		282	205	72.7	0.35 - 50	0.21 - 0.60			
Tecnazene	P								
Water, Finished		91				18.8 ^			
Water, Untreated		90				18.8 ^			
Tefluthrin	I								
Water, Finished		189				2.1 ^			
Water, Untreated		189				2.1 ^			
Terbacil	H								
Water, Finished		284				1.6 - 22.5		90,000	
Water, Untreated		283				1.6 - 22.5			
Terbufos	I								
Water, Finished		280	1	0.4	89 ^	6.3 - 11.3		400	
Water, Untreated		279				6.3 - 11.3			
Terbufos sulfone	IM								
Water, Finished		91				4.5 ^			
Water, Untreated		90				4.5 ^			
Terbufos-O analog	IM								
Water, Finished		91				6.0 ^			
Water, Untreated		90				6.0 ^			
Tetrachlorvinphos	I								
Water, Finished		280	1	0.4	28 ^	6.0 - 7.5			
Water, Untreated		279				6.0 - 7.5			
Tetraconazole	F								
Water, Finished		284	1	0.4	84 ^	1.8 - 1.9			
Water, Untreated		282				1.8 - 1.9			
Tetradifon	I								
Water, Finished		284	1	0.4	56 ^	7.2 - 37.5			
Water, Untreated		283				7.2 - 37.5			
Tetramethrin	I								
Water, Finished		189				28 ^			
Water, Untreated		189				28 ^			
Thiamethoxam	I								
Water, Finished		189	7	3.7	10.2 ^	6.1 ^			
Water, Untreated		189	7	3.7	10.2 - 25	6.1 ^			
Thifensulfuron	H								
Water, Finished		189				8.9 ^			
Water, Untreated		189				8.9 ^			
Thiobencarb	H								
Water, Finished		284	1	0.4	29 ^	7.7 - 18			
Water, Untreated		282				7.7 - 18			

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]
Tri Allate	H								
Water, Finished		284	1	0.4	120 ^	12 - 82.5			
Water, Untreated		283				12 - 82.5			
Triadimefon	F								
Water, Finished		284				1.3 - 8.4			
Water, Untreated		282				1.3 - 8.4			
Triadimenol	F								
Water, Finished		189				20 ^			
Water, Untreated		189				20 ^			
Triasulfuron	H								
Water, Finished		189				3.1 ^			
Water, Untreated		189				3.1 ^			
Triclopyr	H								
Water, Finished		284	86	30.3	2.7 - 220	1.6 - 6.0			
Water, Untreated		282	88	31.2	2.7 - 230	1.6 - 6.0			
Trifluralin	H								
Water, Finished		87				1.5 ^		10,000	
Water, Untreated		86				1.5 ^			
Triticonazole	F								
Water, Finished		189				14 ^			
Water, Untreated		189				14 ^			

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 H

Distribution of Residues for Environmental Contaminants

Appendix H shows residue detections across all commodities for 22 compounds identified as environmental contaminants, including range of values detected, range of Limits of Detection (LODs), and U.S. Environmental Protection Agency (EPA) tolerances or Action Levels for each pair. Results for environmental contaminants have been consolidated in this appendix because they have no registered uses and are not applied to crops.

The EPA tolerances cited in this summary and Appendices apply to 2010 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.

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 H. DISTRIBUTION OF RESIDUES FOR ENVIRONMENTAL CONTAMINANTS

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
Aldrin (insecticide) (parent of Dieldrin)						
Apples	744	0			0.007 ^	0.03 AL
Asparagus	372	0			0.040 ^	0.03 AL
Baby Food - Green Beans	192	0			0.002 ^	0.05 AL
Baby Food - Pears	191	0			0.007 ^	0.03 AL
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.1 AL
Black Beans, Canned	367	0			0.003 ^	0.05 AL
Cantaloupe	371	0			0.003 ^	0.1 AL
Cilantro	555	0			0.007 ^	NT
Cucumbers	744	0			0.003 - 0.007	0.1 AL
Eggs	371	0			0.015 ^	0.03 AL
Fish, Catfish	384	0			0.005 ^	0.3 AL
Garbanzo Beans, Canned	186	0			0.003 ^	0.05 AL
Grapes	745	0			0.003 - 0.010	0.05 AL
Hot Peppers	186	0			0.002 - 0.10	0.05 AL
Lettuce	743	0			0.003 ^	0.03 AL
Mangoes	372	0			0.003 ^	0.03 AL
Oats Grain	298	0			0.001 ^	0.02 AL
Orange Juice	191	0			0.003 ^	0.02 AL
Oranges	744	0			0.003 ^	0.02 AL
Pears	743	0			0.006 ^	0.03 AL
Spinach, Canned	159	0			0.050 ^	0.05 AL
Spinach, Frozen	191	0			0.050 ^	0.05 AL
Sweet Bell Peppers	744	0			0.002 ^	0.05 AL
Sweet Corn, Fresh	481	0			0.003 - 0.040	0.02 AL
Sweet Corn, Frozen	73	0			0.003 - 0.040	0.02 AL
Sweet Potatoes	553	0			0.003 ^	0.1 AL
Watermelon	371	0			0.002 ^	0.1 AL
Water, Finished	189	0			9.6 ^ (ppt)	
Water, Untreated	189	0			9.6 ^ (ppt)	
TOTAL	**11,640**	**0**				
BHC alpha (isomer of BHC alpha)						
Apples	744	0			0.007 ^	0.05 AL
Asparagus	372	0			0.080 ^	0.05 AL
Baby Food - Green Beans	192	0			0.002 ^	0.05 AL
Baby Food - Pears	191	0			0.007 ^	0.05 AL
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.05 AL
Black Beans, Canned	367	0			0.012 ^	0.05 AL
Cantaloupe	371	0			0.003 ^	0.05 AL
Cilantro	385	0			0.022 - 0.045	NT
Cucumbers	744	0			0.002 - 0.007	0.05 AL
Eggs	371	0			0.003 ^	0.05 AL
Fish, Catfish	384	9	2.3	0.001 - 0.0081	0.001 ^	NA
Garbanzo Beans, Canned	186	0			0.012 ^	0.05 AL
Grapes	745	0			0.002 - 0.025	0.05 AL
Hot Peppers	186	0			0.002 - 0.10	0.05 AL
Lettuce	743	0			0.012 ^	0.05 AL
Mangoes	372	0			0.003 ^	0.05 AL
Oats Grain	298	0			0.003 ^	0.05 AL
Orange Juice	191	0			0.012 ^	0.05 AL
Oranges	744	0			0.003 ^	0.05 AL
Pears	743	0			0.004 ^	0.05 AL
Spinach, Canned	181	0			0.10 ^	0.05 AL
Spinach, Frozen	191	0			0.10 ^	0.05 AL
Sweet Bell Peppers	744	0			0.001 ^	0.05 AL
Sweet Corn, Fresh	481	0			0.002 - 0.080	0.05 AL
Sweet Corn, Frozen	73	0			0.002 - 0.080	0.05 AL
Sweet Potatoes	553	0			0.002 ^	0.05 AL
Watermelon	371	0			0.002 ^	0.05 AL
TOTAL	**11,114**	**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
BHC beta (isomer of BHC alpha)						
Eggs	371	0			0.015 ^	0.05 AL
Fish, Catfish	384	1	0.3	0.0072 ^	0.005 ^	NA
Hot Peppers	93	0			0.20 ^	0.05 AL
Orange Juice	191	0			0.014 ^	0.05 AL
Oranges	722	0			0.003 ^	0.05 AL
Pears	743	0			0.003 ^	0.05 AL
Spinach, Canned	181	0			0.030 ^	0.05 AL
Spinach, Frozen	191	0			0.030 ^	0.05 AL
TOTAL	**2,876**	**1**				
BHC delta (isomer of BHC alpha)						
Fish, Catfish	384	4	1.0	0.003 - 0.0066	0.001 ^	NA
TOTAL	**384**	**4**				
Chlordane cis (insecticide) (isomer of Chlordane)						
Apples	744	0			0.001 ^	0.1 AL
Asparagus	372	0			0.060 ^	0.1 AL
Baby Food - Green Beans	192	0			0.002 ^	0.1 AL
Baby Food - Pears	191	0			0.001 ^	0.1 AL
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.1 AL
Black Beans, Canned	367	0			0.004 ^	0.1 AL
Cilantro	555	47	8.5	0.002 - 0.005	0.001 ^	NT
Cucumbers	744	12	1.6	0.002 - 0.007	0.001 - 0.002	0.1 AL
Eggs	371	0			0.005 ^	NT
Fish, Catfish	384	1	0.3	0.0013 ^	0.001 ^	0.3 AL
Garbanzo Beans, Canned	186	0			0.004 ^	0.1 AL
Grapes	745	0			0.002 - 0.006	0.1 AL
Hot Peppers	186	0			0.002 - 0.10	0.1 AL
Lettuce	743	0			0.004 ^	0.1 AL
Orange Juice	191	0			0.004 ^	0.1 AL
Oranges	248	0			0.005 ^	0.1 AL
Pears	743	0			0.003 ^	0.1 AL
Spinach, Canned	181	0			0.070 ^	0.1 AL
Spinach, Frozen	191	0			0.070 ^	0.1 AL
Sweet Bell Peppers	744	0			0.001 - 0.002	0.1 AL
Sweet Corn, Fresh	481	0			0.002 - 0.060	0.1 AL
Sweet Corn, Frozen	73	0			0.002 - 0.060	0.1 AL
Sweet Potatoes	553	1	0.2	0.004 ^	0.002 ^	0.1 AL
Watermelon	371	0			0.002 ^	0.1 AL
Water, Groundwater	14	0			2.3 ^ (ppt)	
Water, Finished	95	0			2.3 ^ (ppt)	
Water, Untreated	94	0			2.3 ^ (ppt)	
TOTAL	**9,950**	**61**				
Chlordane trans (isomer of Chlordane)						
Apples	744	0			0.001 ^	0.1 AL
Asparagus	372	0			0.060 ^	0.1 AL
Baby Food - Green Beans	192	0			0.002 ^	0.1 AL
Baby Food - Pears	191	0			0.001 ^	0.1 AL
Baby Food - Sweet Potatoes	191	0			0.002 ^	0.1 AL
Black Beans, Canned	367	0			0.004 ^	0.1 AL
Cilantro	555	42	7.6	0.002 - 0.005	0.001 ^	NT
Cucumbers	744	6	0.8	0.002 - 0.005	0.001 - 0.002	0.1 AL
Eggs	371	0			0.005 ^	NT
Fish, Catfish	384	0			0.001 ^	0.3 AL
Garbanzo Beans, Canned	186	0			0.004 ^	0.1 AL
Grapes	745	0			0.002 - 0.006	0.1 AL
Hot Peppers	186	0			0.002 - 0.10	0.1 AL
Lettuce	743	0			0.004 ^	0.1 AL
Orange Juice	191	0			0.004 ^	0.1 AL
Oranges	248	0			0.005 ^	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
Pears	743	0			0.003 ^	0.1 AL
Spinach, Canned	181	0			0.030 ^	0.1 AL
Spinach, Frozen	191	0			0.030 ^	0.1 AL
Sweet Bell Peppers	744	0			0.001 ^	0.1 AL
Sweet Corn, Fresh	481	0			0.002 - 0.060	0.1 AL
Sweet Corn, Frozen	73	0			0.002 - 0.060	0.1 AL
Sweet Potatoes	553	1	0.2	0.004 ^	0.002 ^	0.1 AL
Watermelon	371	0			0.002 ^	0.1 AL
Water, Groundwater	14	0			2.3 ^ (ppt)	
Water, Finished	95	0			2.3 ^ (ppt)	
Water, Untreated	94	0			2.3 ^ (ppt)	
TOTAL	**9,950**	**49**				
DDD o,p' (metabolite of DDT)						
Apples	744	0			0.001 ^	0.1 AL
Baby Food - Pears	191	0			0.001 ^	0.1 AL
Cilantro	555	61	11.0	0.002 - 0.004	0.001 ^	NT
Cucumbers	372	0			0.001 ^	0.1 AL
Fish, Catfish	244	1	0.4	0.0608 ^	0.002 ^	5 AL
Water, Groundwater	14	0			3.8 ^ (ppt)	
Water, Finished	95	0			3.8 ^ (ppt)	
Water, Untreated	94	0			3.8 ^ (ppt)	
TOTAL	**2,309**	**62**				
DDD p,p' (metabolite of DDT)						
Apples	744	0			0.001 ^	0.1 AL
Asparagus	372	0			0.030 ^	0.5 AL
Baby Food - Green Beans	192	0			0.003 ^	0.2 AL
Baby Food - Pears	191	0			0.001 ^	0.1 AL
Baby Food - Sweet Potatoes	191	0			0.004 ^	1 AL
Black Beans, Canned	367	0			0.005 ^	0.2 AL
Cantaloupe	309	0			0.003 ^	0.1 AL
Cilantro	276	2	0.7	0.002 ^	0.001 - 0.021	NT
Cucumbers	744	0			0.001 - 0.004	0.1 AL
Eggs	371	0			0.005 ^	0.5 AL
Fish, Catfish	384	104	27.1	0.0022 - 0.15	0.002 ^	5 AL
Garbanzo Beans, Canned	186	0			0.005 - 0.007	0.2 AL
Grapes	745	0			0.003 - 0.004	0.05 AL
Hot Peppers	186	0			0.003 - 0.10	0.1 AL
Lettuce	743	0			0.005 ^	0.5 AL
Mangoes	372	0			0.003 ^	0.2 AL
Oats Grain	298	0			0.003 ^	0.5 AL
Orange Juice	191	0			0.005 ^	0.1 AL
Oranges	744	0			0.003 ^	0.1 AL
Pears	743	0			0.007 ^	0.1 AL
Spinach, Canned	181	0			0.030 ^	0.5 AL
Spinach, Frozen	191	0			0.030 ^	0.5 AL
Sweet Bell Peppers	744	0			0.001 ^	0.1 AL
Sweet Corn, Fresh	481	0			0.004 - 0.030	0.1 AL
Sweet Corn, Frozen	73	0			0.004 - 0.030	0.1 AL
Sweet Potatoes	553	0			0.004 ^	1 AL
Watermelon	371	0			0.003 ^	0.1 AL
Water, Groundwater	13	0			3.8 ^ (ppt)	
Water, Finished	87	0			3.8 ^ (ppt)	
Water, Untreated	87	0			3.8 ^ (ppt)	
TOTAL	**11,130**	**106**				
DDE o,p' (metabolite of DDT)						
Fish, Catfish	384	4	1.0	0.0023 - 0.0031	0.002 ^	5 AL
TOTAL	**384**	**4**				

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
DDE p,p' (metabolite of DDT)						
Apples	744	0			0.002 ^	0.1 AL
Asparagus	372	0			0.015 ^	0.5 AL
Baby Food - Green Beans	192	0			0.003 ^	0.2 AL
Baby Food - Pears	191	0			0.002 ^	0.1 AL
Baby Food - Sweet Potatoes	191	0			0.004 ^	1 AL
Black Beans, Canned	367	0			0.010 ^	0.2 AL
Cilantro	555	133	24.0	0.006 - 0.18	0.006 ^	NT
Cucumbers	744	0			0.002 - 0.004	0.1 AL
Eggs	371	0			0.005 ^	0.5 AL
Fish, Catfish	384	253	65.9	0.002 - 1.5	0.002 ^	5 AL
Garbanzo Beans, Canned	186	0			0.010 ^	0.2 AL
Grapes	745	0			0.002 - 0.004	0.05 AL
Hot Peppers	186	0			0.003 - 0.050	0.1 AL
Lettuce	743	0			0.010 ^	0.5 AL
Oats Grain	298	1	0.3	0.002 ^	0.001 ^	0.5 AL
Orange Juice	191	0			0.010 ^	0.1 AL
Pears	743	0			0.006 ^	0.1 AL
Spinach, Canned	181	0			0.010 ^	0.5 AL
Spinach, Frozen	191	21	11.0	0.010 - 0.027	0.010 ^	0.5 AL
Sweet Bell Peppers	744	11	1.5	0.001 - 0.004	0.001 ^	0.1 AL
Sweet Corn, Fresh	481	0			0.004 - 0.015	0.1 AL
Sweet Corn, Frozen	73	0			0.004 - 0.015	0.1 AL
Sweet Potatoes	553	1	0.2	0.007 ^	0.004 ^	1 AL
Watermelon	371	0			0.003 ^	0.1 AL
Water, Groundwater	14	0			7.5 ^ (ppt)	
Water, Finished	95	0			7.5 ^ (ppt)	
Water, Untreated	94	0			7.5 ^ (ppt)	
TOTAL	**10,000**	**420**				
DDT o,p' (insecticide)						
Apples	744	0			0.001 ^	0.1 AL
Baby Food - Pears	191	0			0.001 ^	0.1 AL
Cilantro	555	141	25.4	0.002 - 0.015	0.001 ^	NT
Cucumbers	372	10	2.7	0.002 - 0.006	0.001 ^	0.1 AL
Water, Groundwater	13	0			3.8 ^ (ppt)	
Water, Finished	91	0			3.8 ^ (ppt)	
Water, Untreated	90	0			3.8 ^ (ppt)	
TOTAL	**2,056**	**151**				
DDT p,p' (insecticide)						
Apples	744	0			0.002 - 0.006	0.1 AL
Baby Food - Green Beans	192	0			0.003 ^	0.2 AL
Baby Food - Pears	181	0			0.002 ^	0.1 AL
Baby Food - Sweet Potatoes	191	0			0.004 ^	1 AL
Black Beans, Canned	31	0			0.10 ^	0.2 AL
Cucumbers	744	0			0.002 - 0.004	0.1 AL
Eggs	371	0			0.005 ^	0.5 AL
Fish, Catfish	324	0			0.004 ^	5 AL
Garbanzo Beans, Canned	62	0			0.020 ^	0.2 AL
Grapes	745	0			0.004 - 0.019	0.05 AL
Hot Peppers	93	0			0.003 ^	0.1 AL
Lettuce	185	0			0.020 - 0.10	0.5 AL
Oats Grain	298	0			0.006 ^	0.5 AL
Oranges	744	0			0.003 ^	0.1 AL
Pears	743	0			0.010 ^	0.1 AL
Sweet Corn, Fresh	261	0			0.004 ^	0.1 AL
Sweet Corn, Frozen	14	0			0.004 ^	0.1 AL
Sweet Potatoes	553	0			0.004 ^	1 AL
Watermelon	371	0			0.003 ^	0.1 AL
Water, Groundwater	14	0			3.8 ^ (ppt)	
Water, Finished	95	0			3.8 ^ (ppt)	
Water, Untreated	94	0			3.8 ^ (ppt)	
TOTAL	**7,050**	**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
Dieldrin (insecticide) (also a metabolite of Aldrin)						
Apples	744	0			0.005 ^	0.03 AL
Asparagus	372	0			0.050 ^	0.03 AL
Baby Food - Green Beans	192	0			0.002 ^	0.05 AL
Baby Food - Pears	191	0			0.005 ^	0.03 AL
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.1 AL
Black Beans, Canned	367	0			0.002 ^	0.05 AL
Cantaloupe	371	8	2.2	0.005 - 0.021	0.003 ^	0.1 AL
Cilantro	555	22	4.0	0.008 - 0.023	0.005 ^	NT
Cucumbers	744	42	5.6	0.005 - 0.079	0.003 - 0.005	0.1 AL
Eggs	371	0			0.005 ^	0.03 AL
Fish, Catfish	384	0			0.005 ^	0.3 AL
Garbanzo Beans, Canned	186	0			0.002 ^	0.05 AL
Grapes	745	0			0.003 - 0.020	0.05 AL
Hot Peppers	186	0			0.002 - 0.40	0.05 AL
Lettuce	743	0			0.002 ^	0.03 AL
Mangoes	372	0			0.003 ^	0.03 AL
Oats Grain	298	0			0.003 ^	0.02 AL
Orange Juice	191	0			0.002 ^	0.02 AL
Oranges	744	0			0.003 ^	0.02 AL
Pears	743	0			0.005 ^	0.03 AL
Sweet Bell Peppers	744	0			0.004 ^	0.05 AL
Sweet Corn, Fresh	481	0			0.003 - 0.050	0.02 AL
Sweet Corn, Frozen	73	0			0.003 - 0.050	0.02 AL
Sweet Potatoes	553	0			0.003 ^	0.1 AL
Watermelon	371	0			0.002 ^	0.1 AL
Water, Groundwater	14	0			15 ^ (ppt)	
Water, Finished	95	0			15 ^ (ppt)	
Water, Untreated	94	0			15 ^ (ppt)	
TOTAL	**11,115**	**72**				
Endrin (insecticide)						
Apples	744	0			0.007 ^	NT
Baby Food - Green Beans	192	0			0.003 ^	0.05 AL
Baby Food - Pears	191	0			0.007 ^	NT
Baby Food - Sweet Potatoes	191	0			0.004 ^	0.05 AL
Black Beans, Canned	367	0			0.004 ^	0.05 AL
Cantaloupe	371	0			0.003 ^	0.05 AL
Cilantro	523	0			0.007 - 0.022	NT
Cucumbers	744	1	0.1	0.007 ^	0.004 - 0.007	0.05 AL
Eggs	371	0			0.010 ^	NT
Fish, Catfish	384	0			0.005 ^	NA
Garbanzo Beans, Canned	186	0			0.004 ^	0.05 AL
Grapes	745	0			0.004 - 0.030	NT
Hot Peppers	186	0			0.003 - 0.40	0.05 AL
Lettuce	743	2	0.3	0.014 - 0.028	0.004 ^	0.05 AL
Mangoes	372	0			0.003 ^	NT
Orange Juice	191	0			0.004 ^	NT
Oranges	744	0			0.003 ^	NT
Pears	743	0			0.006 ^	NT
Spinach, Canned	181	0			0.040 ^	0.05 AL
Spinach, Frozen	191	0			0.040 ^	0.05 AL
Sweet Bell Peppers	744	0			0.006 ^	0.05 AL
Sweet Corn, Fresh	481	0			0.004 - 0.080	0.05 AL
Sweet Corn, Frozen	73	0			0.004 - 0.080	0.05 AL
Sweet Potatoes	553	0			0.004 ^	0.05 AL
Watermelon	371	0			0.003 ^	0.05 AL
Water, Groundwater	14	0			30 ^ (ppt)	
Water, Finished	95	0			30 ^ (ppt)	
Water, Untreated	94	0			30 ^ (ppt)	
TOTAL	**10,785**	**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
Heptachlor (insecticide)						
Apples	653	0			0.002 ^	0.01 AL
Asparagus	372	0			0.040 ^	0.01 AL
Baby Food - Green Beans	192	0			0.002 ^	0.01 AL
Baby Food - Pears	175	0			0.002 ^	0.01 AL
Baby Food - Sweet Potatoes	191	0			0.003 ^	0.01 AL
Black Beans, Canned	367	0			0.002 ^	0.01 AL
Cilantro	507	0			0.002 ^	NT
Cucumbers	744	0			0.002 - 0.003	0.02 AL
Eggs	371	0			0.005 ^	0.01 AL
Fish, Catfish	384	0			0.005 ^	0.3 AL
Garbanzo Beans, Canned	186	0			0.002 ^	0.01 AL
Grapes	745	0			0.003 - 0.010	0.01 AL
Hot Peppers	93	0			0.002 ^	0.01 AL
Lettuce	743	0			0.002 ^	0.01 AL
Orange Juice	191	0			0.002 ^	0.01 AL
Oranges	556	0			0.002 ^	0.01 AL
Pears	743	0			0.004 ^	0.01 AL
Spinach, Canned	181	0			0.040 ^	0.01 AL
Spinach, Frozen	191	0			0.040 ^	0.01 AL
Sweet Bell Peppers	744	0			0.001 - 0.002	0.01 AL
Sweet Corn, Fresh	481	0			0.003 - 0.040	0.01 AL
Sweet Corn, Frozen	73	0			0.003 - 0.040	0.01 AL
Sweet Potatoes	553	0			0.003 ^	0.01 AL
Watermelon	371	0			0.002 ^	0.01 AL
TOTAL	**9,807**	**0**				
Heptachlor epoxide (metabolite of Heptachlor)						
Apples	744	0			0.004 ^	0.01 AL
Asparagus	372	0			0.040 ^	0.01 AL
Baby Food - Green Beans	192	0			0.003 ^	0.01 AL
Baby Food - Pears	191	0			0.004 ^	0.01 AL
Baby Food - Sweet Potatoes	191	0			0.004 ^	0.01 AL
Black Beans, Canned	367	0			0.001 ^	0.01 AL
Cantaloupe	371	0			0.002 ^	0.02 AL
Cilantro	555	2	0.4	0.006 - 0.016	0.004 ^	NT
Cucumbers	744	1	0.1	0.006 ^	0.004 ^	0.02 AL
Eggs	371	0			0.005 ^	0.01 AL
Fish, Catfish	384	0			0.005 ^	0.3 AL
Garbanzo Beans, Canned	186	0			0.001 ^	0.01 AL
Grapes	745	0			0.004 - 0.010	0.01 AL
Hot Peppers	93	0			0.003 ^	0.01 AL
Lettuce	743	0			0.001 ^	0.01 AL
Mangoes	372	0			0.002 ^	NT
Orange Juice	191	0			0.001 ^	0.01 AL
Oranges	744	0			0.002 ^	0.01 AL
Spinach, Canned	181	0			0.040 ^	0.01 AL
Spinach, Frozen	191	0			0.040 ^	0.01 AL
Sweet Bell Peppers	744	0			0.008 ^	0.01 AL
Sweet Corn, Fresh	481	0			0.004 - 0.040	0.01 AL
Sweet Corn, Frozen	73	0			0.004 - 0.040	0.01 AL
Sweet Potatoes	553	0			0.004 ^	0.01 AL
Watermelon	371	0			0.003 ^	0.02 AL
Water, Groundwater	14	0			15 ^ (ppt)	
Water, Finished	95	0			15 ^ (ppt)	
Water, Untreated	94	0			15 ^ (ppt)	
TOTAL	**10,353**	**3**				
Heptachlor epoxide cis (metabolite of Heptachlor)						
Pears	743	0			0.004 ^	0.01 AL
TOTAL	**743**	**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
Heptachlor epoxide trans (metabolite of Heptachlor)						
Pears	743	0			0.004 ^	0.01 AL
TOTAL	**743**	**0**				
Hexachlorobenzene - HCB (impurity of Quintozene)						
Apples	744	0			0.001 - 0.005	NT
Baby Food - Green Beans	192	0			0.002 ^	0.1
Baby Food - Pears	191	0			0.001 ^	NT
Baby Food - Sweet Potatoes	191	0			0.002 ^	NT
Black Beans, Canned	367	0			0.003 ^	0.1
Cabbage	743	0			0.035 ^	NT
Cucumbers	744	0			0.001 - 0.002	NT
Eggs	333	0			0.003 ^	NT
Fish, Catfish	384	1	0.3	0.0015 ^	0.001 ^	NA
Garbanzo Beans, Canned	186	0			0.003 ^	0.1
Grapes	373	0			0.002 ^	NT
Hot Peppers	186	0			0.002 - 0.070	0.1
Lettuce	743	0			0.003 ^	NT
Orange Juice	191	0			0.003 ^	NT
Sweet Corn, Fresh	261	0			0.002 ^	NT
Sweet Corn, Frozen	14	0			0.002 ^	NT
Sweet Potatoes	553	0			0.002 ^	NT
Watermelon	371	0			0.002 ^	NT
TOTAL	**6,767**	**1**				
Nonachlor cis (insecticide metabolite)						
Eggs	371	0			0.001 ^	NT
Fish, Catfish	384	1	0.3	0.001 ^	0.001 ^	NA
TOTAL	**755**	**1**				
Nonachlor trans (insecticide metabolite)						
Eggs	371	0			0.005 ^	NT
Fish, Catfish	384	1	0.3	0.002 ^	0.001 ^	NA
TOTAL	**755**	**1**				
Oxychlordane (metabolite of Chlordane)						
Apples	744	0			0.008 ^	0.1 AL
Baby Food - Pears	191	0			0.002 ^	0.1 AL
Cilantro	280	0			0.008 - 0.053	NT
Cucumbers	356	0			0.008 ^	0.1 AL
Eggs	371	0			0.010 ^	NT
Fish, Catfish	384	0			0.002 ^	0.3 AL
Orange Juice	191	0			0.004 ^	0.1 AL
Water, Groundwater	14	0			7.5 ^ (ppt)	
Water, Finished	95	0			7.5 ^ (ppt)	
Water, Untreated	94	0			7.5 ^ (ppt)	
TOTAL	**2,720**	**0**				

NOTES

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

AL = Numbers shown are Action Levels established by FDA for some pesticides. 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.

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

(ppt) = Findings in water are expressed in parts-per-trillion (ppt). All other findings are expressed in parts-per-million (ppm).

Appendix I

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

Appendix I gives the number of fruit and vegetable, oat, egg, and catfish 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 I, fruit and vegetable, oat, egg, and catfish samples originated from 39 States, 1 U.S. territory, and 30 foreign countries. There were 170 samples from mixed national origins (multiple countries). There were 552 domestic and 4 imported samples from unknown States and countries, respectively. There were an additional 118 samples from unknown origins. Overall, for all samples except groundwater and drinking water, 73.8 percent were from U.S. sources, 23.8 percent were imports, 1.4 percent were of mixed national origin, and 1.0 percent were of unknown origin.

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

Part 1. Domestic Samples

	Fresh F&V																Processed F&V									Other			# of	% of
State	AP	AS	CB	CG	CL	CN	CU	GR	HP	LT	MA	OG	PE	PP	SW	WM	AB	CS	IG	IP	IS	OJ	SC	SF	ZB	EG	FC	OA	Samples	Total
Alabama																											14		14	0.1
Arizona			4	1		8	12			4		5		2		2	14	1							3	1	1		58	0.5
Arkansas				1										1	3		14	3		1			38	5	8	8	14	10	106	0.9
California	23	62	98	186	292	79	31	296	17	633	3	577	119	159	176	82	22			2	2	6	78	19	15	69	45	10	3101	25.8
Colorado			9	31	6		1		1	12						1				4	3					5		1	74	0.6
Connecticut																				1	1					1		2	5	<0.1
Delaware		1	3	3												1													8	0.1
Florida		1	45	68	27	26	62	5	18	21		33	3	97	6	21	9	1				1	8	11	5	20	9	9	506	4.2
Georgia			7	17			41		24					36		7		1				5				1	1	2	142	1.2
Idaho	4																7	4				1		4	4				24	0.2
Illinois	7		1	1	4				1					1	2	2	23	5		1	2		10	7	14	12		145	238	2.0
Indiana	1		1				1					1		2		6										8			20	0.2
Iowa																										2			2	<0.1
Kansas																									2				2	<0.1
Kentucky			1	1											4														6	<0.1
Louisiana															44												9		53	0.4
Maine																	2						1	2		2	3	4	14	0.1
Maryland	6		17	10	7	1	10	2		8		5	1	11	7	10	11	6					3	7	6	14	1	7	150	1.2
Massachusetts	4				1												1										35		41	0.3
Michigan	42	14	7	23	7		27		4	7				10	1	4	12	6	153	81	135	1	6	6	9	15	7	3	580	4.8
Minnesota	2		1	2			6	8				3	1	6	4	2	32	3		2		3	4	15	16	17		13	140	1.2
Mississippi			1												41											21	85		148	1.2
Missouri	2		2												1	1	5	2					2	2		6		9	32	0.3
Nebraska																	2												2	<0.1
New Hampshire																									2			3	5	<0.1
New Jersey	1	1	1	14	10		13	1		3				13	6		40						3	2	11	6	2	5	132	1.1
New Mexico				2												1											1		4	<0.1
New York	54	1	15	41	3		13		2	1				11	1	6	12	14	24	25	35		4	22	12	15	2	4	317	2.6
North Carolina				11	3		10		15					5	171	1	5	1		1			1	18		4	6		252	2.1
Ohio	4		20	18	9	26	11	2	4	5		2		17	1	5	16	6				1	7	21	2	37	5	2	221	1.8
Oregon	1		6	1	1		2			1			85			1	7	1					5	5	2	2	1	17	138	1.1
Pennsylvania	2			7			3			2			1	1		1	17							3	11	33	2	2	85	0.7
Puerto Rico											2														1				3	<0.1
South Carolina				1	1		2							3		2													9	0.1
Tennessee																	69	5					6	15	36		1	1	133	1.1
Texas	32		16	122	45	5	16	14	4	17		39	15	19	22	19	35	5				2	3	8	17	26	20	6	507	4.2
Virginia	1		2				1																						4	<0.1
Washington	487	5	3	19	5		9	2	3	3		1	407	10	1	3	1	1						1		11	11	3	986	8.2
West Virginia	1																												1	<0.1
Wisconsin			5	10			1		2					1	1			2	5	3	5		1	4	2	11		8	61	0.5
Unknown State	11	4	94	112	36	5	35	13	19	14	1	7	16	23	56	39	3		4	4	4	2	1	7	1	24	14	3	552	4.6
No. of Domestic	685	89	359	702	457	150	307	343	114	731	6	673	648	428	548	217	359	67	186	125	187	22	181	184	179	371	289	269	8,876	
% of Total	92	24	75	94	82	40	41	46	61	98	2	90	87	58	99	58	98	92	97	65	98	12	100	96	96	100	75	90		73.8

Part 2. Imported Samples

	Fresh F&V																Processed F&V									Other			# of	% of
Country	AP	AS	CB	CG	CL	CN	CU	GR	HP	LT	MA	OG	PE	PP	SW	WM	AB	CS	IG	IP	IS	OJ	SC	SF	ZB	EG	FC	OA	Samples	Total
Argentina	2												51																53	0.4
Australia												11																	11	0.1
Bolivia																	1												1	<0.1
Brazil								7			19																		26	0.2
Canada	5	2	1	25	3		21			6				40		1	2	6		5					1			17	135	1.1
Chile	27						1	287				32	36							58									441	3.7
China																								1			77		78	0.6
Costa Rica						20					2																		22	0.2
Dominican Rep.							4							1															5	<0.1
Ecuador		1																											1	<0.1
El Salvador														1															1	<0.1
Guatemala						111					32			2		18													163	1.4
Haiti											2																		2	<0.1
Honduras						74	16				1			2		12													105	0.9
Ireland																												12	12	0.1
Israel														1															1	<0.1
Italy																	2												2	<0.1
Mexico		133	93	8	80	16	384	88	60	5	291	3		244	2	115	1					1		5	2				1531	12.7
Netherlands														18															18	0.1
New Zealand	23												5																28	0.2
Nicaragua											8					2													10	0.1
Peru		145						19			5	1																	170	1.4
Russia																									1				1	<0.1
South Africa												24																	24	0.2
Spain							2							3															5	<0.1
Taiwan																											9		9	0.1
Thailand																											2		2	<0.1
Turkey																									2				2	<0.1
Vietnam																											1		1	<0.1
Unkn. Country							1															3							4	<0.1
No. of Imports	57	281	94	33	83	221	429	401	60	11	360	71	92	312	2	148	6	6	0	63	0	4	0	6	6	0	89	29	2,864	
% of Total	8	76	20	4	15	60	58	54	32	1	97	10	12	42	<1	40	2	8	0	33	0	2	0	3	3	0	23	10		23.8

Part 3. Mixed National Origin Samples

	Fresh F&V																Processed F&V									Other			# of	% of
Countries	AP	AS	CB	CG	CL	CN	CU	GR	HP	LT	MA	OG	PE	PP	SW	WM	AB	CS	IG	IP	IS	OJ	SC	SF	ZB	EG	FC	OA	Samples	Total
Belize / Brazil / Costa Rica / Mexico / USA																						8							8	0.1
Brazil / Costa Rica / USA																						49							49	0.4
Brazil / Mexico																						3							3	<0.1
Brazil / Mexico / USA																						79							79	0.7
Brazil / USA																						20							20	0.2
Canada / USA																									1				1	<0.1
China / Taiwan																											4		4	<0.1
Mexico / USA																						6							6	<0.1
No. of Mixed National Origin Samples																						165			1		4		170	
% of Total																						86			<1		1			1.4

Part 4. Unknown Origin Samples

	Fresh F&V																Processed F&V									Other			# of	% of
	AP	AS	CB	CG	CL	CN	CU	GR	HP	LT	MA	OG	PE	PP	SW	WM	AB	CS	IG	IP	IS	OJ	SC	SF	ZB	EG	FC	OA	Samples	Total
Unknown Origin	2	2	28	8	15		8	1	12	1	6		3	4	3	6	2		6	3	4			1			2	1	118	
% of Total	<1	1	6	1	3		1	<1	6	<1	2		<1	1	1	2	1		3	2	2			1			1	<1		1.0

Sample Totals:	744	372	481	743	555	371	744	745	186	743	372	744	743	744	553	371	367	73	192	191	191	191	181	191	186	371	384	299	12,028

NOTE

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

Commodity Legend		
AB = Black Beans, Canned	FC = Catfish	OG = Oranges
AP = Apples	GR = Grapes	OJ = Orange Juice
AS = Asparagus	HP = Hot Peppers	PE = Pears
CB = Sweet Corn, Fresh (On-the-Cob)	IG = Baby Food - Green Beans	PP = Sweet Bell Peppers
CG = Cabbage	IP = Baby Food - Pears	SC = Spinach, Canned
CL = Cilantro	IS = Baby Food - Sweet Potatoes	SF = Spinach, Frozen
CN = Cantaloupe	LT = Lettuce	SW = Sweet Potatoes
CS = Sweet Corn, Frozen	MA = Mangoes	WM = Watermelon
CU = Cucumbers	OA = Oats	ZB = Garbanzo Beans, Canned
EG = Eggs		

Appendix J

Import vs. Domestic Pesticide Residue Comparisons

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

Appendix J compares residue data reported for samples originating in the United States with those of the same commodity from major exporting countries. Residue data for grapes from the United States are compared with data for samples originating in Chile for 2010. Residue data for domestic sweet bell peppers are compared with data for samples originating in Mexico for 2010. 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 J. Import vs. Domestic Pesticide Residue Comparisons

2010 Distribution of Residues for Grape 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
Boscalid	United States	343	188	54.8
	Chile	287	147	51.2
Cyprodinil	United States	343	90	26.2
	Chile	287	73	25.4
Fenhexamid	United States	162	17	10.5
	Chile	152	68	44.7
Imidacloprid	United States	343	138	40.2
	Chile	287	181	63.1
Iprodione	United States	343	10	2.9
	Chile	287	72	25.1
Methoxyfenozide	United States	343	102	29.7
	Chile	287	8	2.8
Myclobutanil	United States	343	116	33.8
	Chile	287	133	46.3
Pyraclostrobin	United States	343	205	59.8
	Chile	287	118	41.1
Pyrimethanil	United States	343	54	15.7
	Chile	287	45	15.7
Quinoxyfen	United States	181	25	13.8
	Chile	135	36	26.7
Tebuconazole	United States	343	78	22.7
	Chile	287	101	35.2
Trifloxystrobin	United States	343	150	43.7
	Chile	287	61	21.3

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

2010 Distribution of Residues for Sweet Bell Pepper 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
Acephate	United States	428	73	17.1
	Mexico	244	24	9.8
Acetamiprid	United States	428	30	7.0
	Mexico	244	57	23.4
Azoxystrobin	United States	428	75	17.5
	Mexico	244	21	8.6
Bifenthrin	United States	428	93	21.7
	Mexico	244	36	14.8
Boscalid	United States	428	11	2.6
	Mexico	244	103	42.2
Clothianidin	United States	428	15	3.5
	Mexico	244	64	26.2
Endosulfan I	United States	428	9	2.1
	Mexico	244	73	29.9
Endosulfan sulfate	United States	428	20	4.7
	Mexico	244	106	43.4
Imidacloprid	United States	428	180	42.1
	Mexico	244	79	32.4
Metalaxyl	United States	428	45	10.5
	Mexico	244	59	24.2
Methamidophos	United States	428	91	21.3
	Mexico	244	48	19.7
Myclobutanil	United States	428	93	21.7
	Mexico	244	84	34.4
Oxamyl oxime	United States	428	62	14.5
	Mexico	244	95	38.9
Permethrin cis	United States	428	14	3.3
	Mexico	244	64	26.2
Permethrin trans	United States	428	14	3.3
	Mexico	244	64	26.2
Prallethrin	United States	428	45	10.5
	Mexico	244	113	46.3
Pyraclostrobin	United States	428	61	14.3
	Mexico	244	57	23.4
Thiamethoxam	United States	428	52	12.1
	Mexico	244	142	58.2

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

Appendix K

Pesticide Residues by Commodity
(Pairs with Residue Detections in at Least 5 Percent of Samples)

Appendix K shows 206 commodity/pesticide pairs (including metabolites, isomers, and degradates) with detections in at least 5 percent of the samples tested. The data shown include the range and mean of values detected and U.S. Environmental Protection Agency (EPA) tolerance references for each pair. The EPA tolerances cited in this summary and Appendices apply to 2010 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.

APPENDIX K. PESTICIDE RESIDUES[A] BY COMMODITY[B]

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

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
1 Apples (22 pesticides)							
Acetamiprid	I	28.8	744	214	0.002 - 0.20	0.024	1.0
Azinphos methyl	I	9.3	744	69	0.020 - 0.16	0.034	1.5
Boscalid	F	12.6	730	92	0.010 - 0.32	0.053	3.0
Carbendazim (MBC) [1]	F	17.6	744	131	0.002 - 0.10	0.031	7.0
Chlorantraniliprole	I	41.0	744	305	0.003 - 0.085	0.01	1.2
Diazinon	I	6.5	744	48	0.003 - 0.20	0.019	0.50
Diflubenzuron	I	5.0	744	37	0.011 - 0.11	0.03	NT
Diphenylamine (DPA)	F	82.7	744	615	0.005 - 4.3	0.427	10.0
Endosulfan II (isomer) [2]	IM	8.1	744	60	0.010 - 0.17	0.029	1.0
Fenpyroximate	A	8.6	744	64	0.002 - 0.039	0.016	0.40
Fludioxonil	F	13.3	744	99	0.020 - 1.2	0.2	5.0
Imidacloprid	I	20.3	744	151	0.002 - 0.025	0.004	0.5
Methoxyfenozide	I	15.9	744	118	0.002 - 0.11	0.011	1.5
Myclobutanil	F	8.1	744	60	0.002 - 0.028	0.004	0.5
Phosmet	I	9.8	744	73	0.008 - 0.28	0.049	10
Pyraclostrobin	F	11.7	744	87	0.002 - 0.29	0.024	1.5
Pyrimethanil	F	74.9	744	557	0.002 - 12	0.446	14
Spinetoram	I	5.0	744	37	0.002 - 0.006	0.002	0.20
Tetrahydrophthalimide (THPI) [3]	FM	16.9	744	126	0.033 - 0.89	0.204	25.0
Thiabendazole	F	80.8	744	601	0.002 - 7.4	0.321	5.0
Thiacloprid	I	12.6	744	94	0.002 - 0.13	0.016	0.30
Trifloxystrobin	F	5.8	744	43	0.002 - 0.014	0.003	0.5
2 Baby Food - Green Beans (3 pesticides)							
Acephate *	I	7.8	192	15	0.013 - 0.11	0.029	3.0
Boscalid	F	43.2	192	83	0.005 - 0.029	0.006	1.6
Methamidophos *	I	9.4	192	18	0.002 - 0.13	0.04	3.0
3 Baby Food - Pears (11 pesticides)							
Acetamiprid	I	20.9	191	40	0.002 - 0.031	0.005	1.0
Buprofezin	I	13.6	191	26	0.002 - 0.005	0.002	4.0
Carbendazim (MBC) [1]	F	11.5	191	22	0.002 - 0.021	0.008	7.0
Chlorantraniliprole	I	5.8	191	11	0.003 - 0.008	0.003	1.2
Diphenylamine (DPA)	F	27.2	191	52	0.005 - 0.022	0.008	10
Methoxyfenozide	I	60.2	191	115	0.002 - 0.026	0.002	1.5
o-Phenylphenol	F	22.0	191	42	0.005 - 0.013	0.006	25.0
Pyrimethanil	F	47.1	191	90	0.002 - 0.37	0.08	14
Spinetoram	I	63.9	191	122	0.002 - 0.006	0.002	0.20
Spinosad *	I	47.6	191	91	0.002 - 0.006	0.002	0.20
Thiabendazole	F	40.3	191	77	0.002 - 0.093	0.02	5.0
4 Cabbage (1 pesticide)							
Imidacloprid	I	8.1	743	60	0.003 - 0.040	0.01	3.5

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
5 Cantaloupe (4 pesticides)							
Dinotefuran	I	14.6	371	54	0.011 - 0.18	0.043	0.5
Endosulfan sulfate [4]	IM	44.5	371	165	0.005 - 0.064	0.016	1.0
Imidacloprid	I	8.4	371	31	0.010 - 0.058	0.023	0.5
Methomyl	I	10.0	371	37	0.010 - 0.17	0.041	0.2
6 Cilantro (15 pesticides)							
Azoxystrobin	F	15.9	555	88	0.002 - 7.0	0.298	50
Boscalid	F	11.5	555	64	0.010 - 0.14	0.016	NT
Chlorantraniliprole	I	18.9	555	105	0.003 - 0.029	0.007	25
Chlorpyrifos *	I	27.0	555	150	0.002 - 0.67	0.016	0.1
DCPA	H	55.3	555	307	0.002 - 1.2	0.034	5.0
Diazinon	I	14.1	555	78	0.003 - 0.88	0.024	NT
Imidacloprid	I	32.3	555	179	0.002 - 1.1	0.022	8.0
Linuron	H	13.7	555	76	0.010 - 0.94	0.079	NT
Malathion	I	6.5	555	36	0.005 - 0.23	0.023	NT
Metolachlor	H	5.0	544	27	0.002 - 0.025	0.007	NT
Myclobutanil	F	5.0	555	28	0.002 - 0.005	0.002	9.0
Pendimethalin	H	8.3	555	46	0.004 - 0.064	0.012	NT
Pentachloroaniline (PCA) [5]	FM	5.0	555	28	0.002 - 0.041	0.005	NT
Prometryn	H	7.9	555	44	0.011 - 0.31	0.043	3.5
Pyrimethanil	F	8.8	555	49	0.002 - 0.012	0.002	NT
7 Cucumbers (17 pesticides)							
Acetamiprid	I	5.4	744	40	0.002 - 0.089	0.009	0.50
Azoxystrobin	F	10.2	744	76	0.002 - 0.051	0.008	0.3
Bifenthrin *	I	9.0	744	67	0.005 - 0.068	0.019	0.4
Boscalid	F	10.5	744	78	0.005 - 0.087	0.018	0.5
Carbendazim (MBC)	F	21.0	372	78	0.002 - 0.073	0.008	1.0
Cyromazine	R	7.8	372	29	0.004 - 0.14	0.027	1.0
Dimethomorph	F	8.9	744	66	0.002 - 0.029	0.005	0.5
Dinotefuran	I	5.2	744	39	0.010 - 0.23	0.031	0.5
Endosulfans							
Endosulfan I (isomer) [6]	I	32.8	744	244	0.005 - 0.22	0.02	1.0
Endosulfan II (isomer) [2]	IM	25.3	739	187	0.007 - 0.13	0.017	1.0
Endosulfan sulfate [4]	IM	38.1	734	280	0.007 - 0.16	0.035	1.0
Famoxadone	F	5.1	372	19	0.005 - 0.015	0.007	0.30
Flonicamid	I	6.9	744	51	0.002 - 0.16	0.025	0.40
Metalaxyl	F	30.9	744	230	0.003 - 0.41	0.047	1.0
Myclobutanil	F	7.9	744	59	0.002 - 0.093	0.011	0.20
Oxamyl							
Oxamyl (parent)	I	14.1	744	105	0.006 - 0.44	0.068	2.0
Oxamyl oxime [7]	IM	29.0	372	108	0.020 - 1.7	0.11	2.0
Propamocarb hydrochloride	F	54.0	372	201	0.010 - 1.0	0.198	1.5
Pyraclostrobin	F	5.6	744	42	0.002 - 0.028	0.006	0.5
Thiamethoxam *	I	16.1	744	120	0.003 - 0.12	0.016	0.2

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
8 Fish, Catfish (5 pesticides)							
Bifenthrin *	I	33.9	384	130	0.001 - 0.060	0.003	NA
Chlorpyrifos *	I	9.6	384	37	0.001 - 0.040	0.005	NA
Diphenylamine (DPA)	F	5.2	384	20	0.002 - 0.004	0.003	NA
Diuron	H	6.2	384	24	0.017 - 0.21	0.048	2.0
Endosulfan sulfate [4]	IM	7.8	384	30	0.001 - 0.028	0.005	NA
9 Grapes (14 pesticides)							
Boscalid	F	47.7	745	355	0.005 - 1.6	0.089	3.5
Buprofezin	I	6.7	745	50	0.001 - 0.050	0.006	2.5
Cyprodinil	F	21.9	745	163	0.010 - 2.0	0.166	2.0
Fenhexamid	F	24.5	372	91	0.011 - 2.5	0.175	4.0
Fludioxonil	F	9.9	745	74	0.010 - 0.29	0.088	1.0
Imidacloprid	I	47.9	745	357	0.004 - 2.3	0.15	1.0
Iprodione	F	12.5	745	93	0.025 - 1.2	0.182	60.0
Methoxyfenozide	I	14.9	745	111	0.005 - 0.28	0.059	1.0
Myclobutanil	F	39.1	745	291	0.001 - 0.30	0.028	1.0
Pyraclostrobin	F	46.4	745	346	0.001 - 1.5	0.053	2.0
Pyrimethanil	F	13.7	745	102	0.001 - 1.7	0.263	5.0
Quinoxyfen	F	17.4	373	65	0.003 - 0.14	0.012	0.60
Tebuconazole	F	29.5	745	220	0.003 - 0.86	0.043	5.0
Trifloxystrobin	F	33.6	745	250	0.003 - 0.25	0.016	2.0
10 Hot Peppers (21 pesticides)							
Acephate *	I	8.6	186	16	0.004 - 3.1	0.683	4.0
Azoxystrobin	F	7.5	186	14	0.002 - 0.095	0.02	2.0
Bifenthrin *	I	7.0	186	13	0.015 - 0.10	0.031	0.5
Carbaryl	I	7.5	186	14	0.005 - 0.57	0.113	5.0
Chlorpyrifos *	I	11.3	186	21	0.004 - 0.17	0.051	1.0
Clothianidin *	I	11.3	186	21	0.005 - 0.032	0.011	0.25
Cyhalothrin, Lambda *	I	6.5	93	6	0.009 - 0.035	0.014	0.20
Endosulfans							
Endosulfan I (isomer) [6]	I	7.5	186	14	0.010 - 0.083	0.022	2.0
Endosulfan II (isomer) [2]	IM	9.1	186	17	0.017 - 0.15	0.048	2.0
Endosulfan sulfate [4]	IM	15.1	186	28	0.005 - 0.048	0.014	2.0
Flubendiamide	I	7.5	93	7	0.001 - 0.012	0.004	0.60
Fluopicolide	F	5.4	93	5	0.004 - 0.033	0.014	1.60
Imidacloprid	I	9.7	186	18	0.010 - 0.32	0.063	1.0
Indoxacarb	I	6.5	186	12	0.004 - 0.060	0.019	0.50
Metalaxyl	F	8.1	186	15	0.003 - 0.095	0.033	1.0
Methamidophos *	I	12.9	186	24	0.002 - 0.85	0.111	4.0
Methoxyfenozide	I	7.0	186	13	0.005 - 0.060	0.019	2.0
Monocrotophos	I	8.6	93	8	0.005 - 0.73	0.2	NT
Oxamyl							
Oxamyl (parent)	I	11.3	186	21	0.010 - 1.0	0.119	5.0
Oxamyl oxime [7]	IM	18.3	186	34	0.020 - 1.7	0.181	5.0
Pyraclostrobin	F	5.9	186	11	0.003 - 0.052	0.016	1.4
Quinoxyfen	F	6.5	186	12	0.002 - 0.022	0.008	1.7
Thiacloprid	I	6.5	93	6	0.003 - 0.066	0.018	NT
Thiamethoxam *	I	15.6	186	29	0.003 - 0.12	0.02	0.25

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
11 Lettuce (17 pesticides)							
Bensulide oxygen analog [8]	IM	5.4	743	40	0.002 - 0.12	0.009	0.15
Boscalid	F	16.4	720	118	0.003 - 0.58	0.021	11.0
Cyhalothrin, Total *	I	19.8	743	147	0.001 - 0.69	0.06	2.0
Cypermethrin *	I	23.3	743	173	0.002 - 0.92	0.108	10.00
DCPA	H	24.0	743	178	0.001 - 0.024	0.004	2.0
Dimethomorph	F	24.6	743	183	0.003 - 9.4	0.241	10
Endosulfans							
Endosulfan I (isomer) [6]	I	5.8	743	43	0.002 - 0.051	0.009	11.0
Endosulfan II (isomer) [2]	IM	6.2	743	46	0.001 - 0.031	0.004	11.0
Endosulfan sulfate [4]	IM	6.6	743	49	0.004 - 0.067	0.014	11.0
Fenamidone	F	13.1	743	97	0.005 - 3.0	0.34	60
Imidacloprid	I	36.7	742	272	0.003 - 0.19	0.015	3.5
Mandipropamid	F	30.7	743	228	0.002 - 3.4	0.225	20
Metalaxyl	F	8.2	743	61	0.001 - 0.12	0.008	5.0
Methomyl	I	6.7	743	50	0.010 - 0.49	0.066	5
Methoxyfenozide	I	7.7	743	57	0.003 - 1.5	0.118	30
Permethrin							
Permethrin cis [9]	IM	16.2	743	120	0.010 - 1.6	0.233	20
Permethrin trans [9]	IM	15.9	743	118	0.010 - 1.5	0.236	20
Propamocarb hydrochloride	F	24.9	619	154	0.003 - 19	1.908	90
Pyraclostrobin	F	5.8	743	43	0.004 - 1.8	0.214	29.0
Spinosad *	I	7.1	743	53	0.006 - 2.1	0.097	8.0
12 Mangoes (1 pesticide)							
Thiabendazole	F	15.6	372	58	0.024 - 1.5	0.472	10.0
13 Orange Juice (2 pesticides)							
Carbaryl	I	48.2	191	92	0.003 - 0.017	0.008	10
Thiabendazole	F	7.3	191	14	0.003 - 0.022	0.008	10.0
14 Oranges (3 pesticides)							
Formetanate hydrochloride	I	5.8	739	43	0.0002 - 0.002	0	1.5
Imazalil	F	69.2	744	515	0.010 - 0.25	0.031	10.0
Thiabendazole	F	50.0	744	372	0.010 - 0.19	0.031	10.0
15 Pears (9 pesticides)							
Acetamiprid	I	15.9	743	118	0.012 - 0.30	0.053	1.0
Azinphos methyl	I	7.7	743	57	0.015 - 0.26	0.039	1.5
Clothianidin *	I	5.4	743	40	0.030 - 0.10	0.033	1.0
Diphenylamine (DPA)	F	6.2	743	46	0.070 - 5.6	0.44	10
Fludioxonil	F	22.5	743	167	0.025 - 1.4	0.231	5.0
o-Phenylphenol	F	26.6	743	198	0.017 - 14	0.384	25.0
Pyrimethanil	F	40.4	743	300	0.074 - 4.9	0.989	14
Spinetoram	I	5.4	743	40	0.025 - 0.058	0.026	0.20
Thiacloprid	I	7.0	743	52	0.025 - 0.10	0.036	0.30

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
16 Spinach, Canned (7 pesticides)							
Azoxystrobin	F	16.0	181	29	0.075 - 1.4	0.409	30.0
Cyfluthrin *	I	5.0	181	9	0.083 - 0.49	0.24	6.0
Cypermethrin *	I	61.9	181	112	0.12 - 3.1	0.727	10.00
Imidacloprid	I	7.2	181	13	0.034 - 0.12	0.066	3.5
1-Naphthol [10]	IM	28.2	181	51	0.083 - 3.4	0.73	22
Permethrin Total	I	71.8	181	130	0.14 - 5.7	1.673	20
Pyraclostrobin	F	9.4	181	17	0.008 - 0.22	0.031	29.0
17 Spinach, Frozen (11 pesticides)							
Azoxystrobin	F	13.6	191	26	0.071 - 5.4	1.179	30.0
Chlorantraniliprole	I	19.9	191	38	0.034 - 2.9	0.727	13
Cyfluthrin *	I	17.3	191	33	0.074 - 3.6	0.68	6.0
Cypermethrin *	I	29.3	191	56	0.15 - 5.1	1.451	10.00
Fenamidone	F	9.9	191	19	0.004 - 1.5	0.273	60
Fluopicolide	F	13.1	191	25	0.012 - 2.4	0.483	25
Mandipropamid	F	37.2	191	71	0.003 - 9.7	0.727	20
Methoxyfenozide	I	12.6	191	24	0.020 - 7.8	0.934	30
Permethrin Total	I	20.9	191	40	0.10 - 6.4	0.883	20
Pyraclostrobin	F	5.8	191	11	0.006 - 13	2.323	29.0
Spinosad *	I	8.1	37	3	0.017 - 0.33	0.139	8.0
18 Sweet Bell Peppers (24 pesticides)							
Acephate *	I	13.3	744	99	0.034 - 1.5	0.285	4.0
Acetamiprid	I	12.2	744	91	0.001 - 0.18	0.019	0.20
Azoxystrobin	F	13.3	744	99	0.003 - 0.090	0.015	2.0
Bifenthrin *	I	17.7	744	132	0.001 - 0.17	0.018	0.5
Boscalid	F	17.1	744	127	0.002 - 0.27	0.031	1.2
Carbaryl	I	8.1	744	60	0.001 - 0.58	0.104	5.0
Chlorfenapyr *	I	5.1	744	38	0.009 - 0.37	0.062	1.0
Chlorpyrifos *	I	9.8	744	73	0.025 - 0.51	0.097	1.0
Clothianidin *	I	10.9	744	81	0.010 - 0.077	0.02	0.25
Cyhalothrin *	I	5.1	744	38	0.010 - 0.098	0.026	0.20
Dinotefuran	I	5.0	744	37	0.008 - 0.37	0.071	0.7
Endosulfans							
Endosulfan I (isomer) [6]	I	11.0	744	82	0.004 - 0.30	0.05	2.0
Endosulfan II (isomer) [2]	IM	7.4	744	55	0.020 - 0.38	0.092	2.0
Endosulfan sulfate [4]	IM	16.9	744	126	0.002 - 0.24	0.028	2.0
Imidacloprid	I	37.2	744	277	0.004 - 0.29	0.023	1.0
Metalaxyl	F	14.2	744	106	0.009 - 0.17	0.044	1.0
Methamidophos *	I	19.0	744	141	0.002 - 0.44	0.071	4.0
Methomyl	I	5.6	744	42	0.014 - 0.39	0.088	2
Methoxyfenozide	I	6.7	744	50	0.006 - 0.035	0.015	2.0
Myclobutanil	F	25.5	744	190	0.001 - 0.21	0.021	4.0
Omethoate	IM	5.5	744	41	0.003 - 0.16	0.034	2.0
Oxamyl							
Oxamyl (parent)	I	9.4	744	70	0.015 - 0.47	0.076	2.0
Oxamyl oxime [7]	IM	21.4	744	159	0.035 - 0.60	0.119	2.0

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
Permethrin							
Permethrin cis [9]	IM	10.9	744	81	0.003 - 0.14	0.027	0.50
Permethrin trans [9]	IM	10.9	744	81	0.003 - 0.16	0.032	0.50
Prallethrin *	I	21.4	744	159	0.025 - 0.32	0.083	1.0
Pyraclostrobin	F	17.1	744	127	0.001 - 0.27	0.035	1.4
Thiamethoxam	I	26.6	744	198	0.005 - 0.27	0.026	0.25
19 Sweet Potatoes (2 pesticides)							
Dicloran	F	46.1	553	255	0.010 - 0.92	0.273	10
Piperonyl butoxide *	I	7.1	553	39	0.015 - 0.89	0.108	0.25
20 Watermelon (4 pesticides)							
Cyprodinil	F	7.5	371	28	0.004 - 0.048	0.013	0.70
Imidacloprid	I	11.1	371	41	0.010 - 0.031	0.012	0.5
Metalaxyl	F	8.9	371	33	0.003 - 0.027	0.006	1.0
Thiamethoxam *	I	11.1	371	41	0.003 - 0.024	0.007	0.2

NOTES

[A] Excludes environmental contaminants, which are listed in Appendix H.

[B] Excludes groundwater and finished/untreated drinking water samples.

NT No tolerance established.

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.

[1] From parent, benomyl.

[2] From endosulfan (endosulfan II is an isomer of endosulfan).

[3] From parent, captan.

[4] From parent, endosulfan.

[5] From parent, quintozene.

[6] From endosulfan (endosulfan I is an isomer of endosulfan).

[7] From parent, oxamyl.

[8] From parent, bensulide.

[9] Isomer of parent, permethrin.

[10] From parent, carbaryl.

* Residue resulting from food handling establishment (FHE) application.

Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

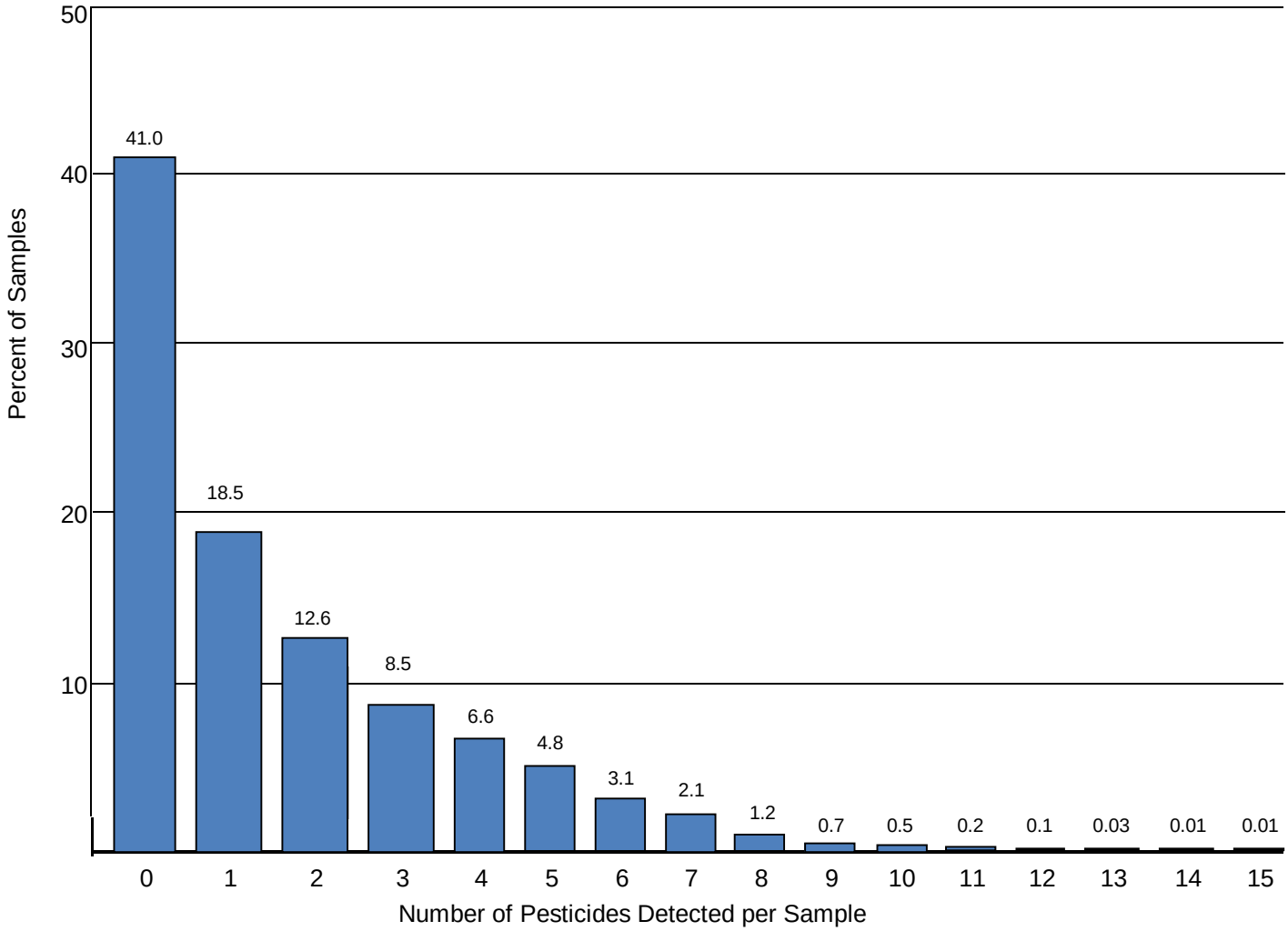
Appendix L

Number of Pesticides Detected per Sample

Appendix L shows the percentage of samples versus the number of pesticides detected per sample, excluding 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 12,028 samples analyzed, 41.0 percent of the samples had no detectable pesticides, 18.5 percent had 1 pesticide, and 40.5 percent of the samples had more than 1 pesticide.

This appendix reports the number of distinct pesticides rather than residues. A parent compound and its metabolites are reported as a single pesticide.

APPENDIX L. 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	14	15
Number of Samples	4,932	2,224	1,521	1,019	792	583	367	256	139	89	59	30	12	3	1	1
Percent of Total Samples	41.0	18.5	12.6	8.5	6.6	4.8	3.1	2.1	1.2	0.7	0.5	0.2	0.1	0.03	0.01	0.01

TOTAL NUMBER OF SAMPLES = 12,028

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

NOTES

[1] Environmental contaminants, listed in Appendix H, have been excluded from the count of pesticides detected in this appendix. Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues."

[2] Excludes groundwater and finished/untreated drinking water samples.

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

Commodity (# of samples)	Number of Pesticides[1] Detected per Sample[2]															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Fresh Fruit and Vegetables:	Percent															
Apples (744)	0.8	2.0	4.8	11.6	20.3	22.4	14.8	10.2	5.4	3.8	2.0	1.3	0.5	--	--	--
Asparagus (372)	89.8	9.4	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--
Cabbage (743)	84.9	14.1	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--
Cantaloupe (371)	40.4	35.8	16.2	6.2	1.1	0.3	--	--	--	--	--	--	--	--	--	--
Cilantro (555)	7.0	19.1	21.6	20.9	16.2	8.3	4.5	1.8	0.5	--	--	--	--	--	--	--
Cucumbers (744)	10.6	20.3	21.4	17.1	14.5	9.4	3.8	1.9	0.5	0.1	0.4	--	--	--	--	--
Grapes (745)	3.6	7.1	15.2	18.0	18.9	15.7	9.7	6.3	2.8	1.1	0.8	0.4	0.1	0.1	--	0.1
Hot Peppers (186)	30.6	19.4	13.4	13.4	7.5	5.4	1.6	2.2	2.7	2.7	--	1.1	--	--	--	--
Lettuce (743)	14.5	20.2	12.0	12.9	10.8	11.0	6.9	5.9	2.6	1.7	1.1	0.3	0.1	--	--	--
Mangoes (372)	78.5	17.7	3.8	--	--	--	--	--	--	--	--	--	--	--	--	--
Oranges (744)	21.4	32.1	41.8	4.4	0.3	--	--	--	--	--	--	--	--	--	--	--
Pears (743)	25.4	22.5	25.2	15.6	8.1	1.7	0.9	0.3	0.3	--	--	--	--	--	--	--
Sweet Bell Peppers (744)	12.2	13.8	12.2	13.4	12.0	8.6	7.8	6.6	4.4	3.2	2.7	1.7	0.8	0.3	0.1	--
Sweet Corn, Fresh (481)	99.2	0.6	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
Sweet Potatoes (553)	45.2	46.5	8.1	0.2	--	--	--	--	--	--	--	--	--	--	--	--
Watermelon (371)	56.9	27.8	12.7	2.2	0.5	--	--	--	--	--	--	--	--	--	--	--
Processed Fruit and Vegetables:																
Baby Food - Green Beans (192)	46.9	44.3	5.2	2.6	1.0	--	--	--	--	--	--	--	--	--	--	--
Baby Food - Pears (191)	7.9	6.3	26.2	23.6	9.4	2.6	3.7	5.2	6.3	5.2	3.7	--	--	--	--	--
Baby Food - Sweet Potatoes (191)	97.9	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Black Beans, Canned (367)	98.4	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Garbanzo Beans, Canned (186)	98.4	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Orange Juice (191)	46.1	48.7	5.2	--	--	--	--	--	--	--	--	--	--	--	--	--
Spinach, Canned (181)	3.9	27.6	31.5	27.6	8.8	0.6	--	--	--	--	--	--	--	--	--	--
Spinach, Frozen (191)	16.2	26.2	21.5	21.5	7.9	3.7	3.1	--	--	--	--	--	--	--	--	--
Sweet Corn, Frozen (73)	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Percent of Total Samples	37.7	18.5	13.4	9.2	7.2	5.3	3.3	2.3	1.3	0.81	0.54	0.27	0.11	0.03	0.01	0.01
Actual Number of Samples	4,135	2,025	1,476	1,006	792	583	367	256	139	89	59	30	12	3	1	1
TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 10,974																
Grain Product:																
Oats (299)	95.7	3.3	0.7	0.3	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	285	11	2	1	--	--	--	--	--	--	--	--	--	--	--	--
Fish Product:																
Catfish (384)	39.8	46.1	10.9	3.1	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	153	177	42	12	--	--	--	--	--	--	--	--	--	--	--	--
Other Product:																
Eggs (371)	96.5	3.2	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	358	12	1	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

[1] Environmental contaminants, listed in Appendix H, have been excluded from the count of pesticides detected in this appendix. Parent compounds and their metabolites are combined to report the number of "pesticides" rather than the number of "residues."

[2] Excludes the 250 groundwater and 567 drinking water samples.

Appendix M

Fruit and Vegetable Samples Reported to the U.S. Food and Drug Administration as Exceeding the Tolerance or Without Established Tolerance

(per Code of Federal Regulations, Title 40, Part 180)

Appendix M shows pesticide 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 2010, a total of 559 samples with 828 pesticides were reported to the FDA as Presumptive Tolerance Violations.

Catfish and water are not included in this appendix because residue levels, if found, are mainly the result of environmental contamination or transfer, rather than from registered agricultural uses on the commodity. Pesticides exceeding the tolerance were detected in 29 samples including 1 apple sample, 2 asparagus samples, 2 cilantro samples, 3 cucumber samples, 2 grape samples, 1 pear sample, 4 frozen spinach samples, 4 samples of sweet bell peppers, 7 sweet potato samples, and 3 watermelon samples. Of those 29 samples, 17 were reported as imported produce.

- 28 samples contained one pesticide exceeding the established tolerance.
- 1 sample of asparagus, originating from Ecuador, contained two pesticides exceeding the established tolerance – cyhalothrin and cypermethrin; no other pesticides were detected in this sample.

In addition, 534 samples were found to have pesticides for which no tolerance was established, including 525 fresh fruit and vegetable samples, 6 processed fruit/vegetable samples, and 3 egg samples.

- 357 samples contained 1 pesticide for which no tolerance was established.
- 112 samples contained 2 pesticides for which no tolerance was established.
- 47 samples contained 3 pesticides for which no tolerance was established.
- 14 samples contained 4 pesticides for which no tolerance was established.
- 4 samples of cilantro contained 5 pesticides for which no tolerance was established.

Four of the 534 samples also contained 1 pesticide each that exceeded an established tolerance.

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

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

A number of the findings shown in this appendix are less than 0.01 ppm. Levels below 0.01 ppm are deemed by the U.S. FDA to be “not of regulatory significance”.

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

Residues Exceeding Established Tolerance

	Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
1	Apples / Thiabendazole	0.001	7.4	5.0	Chile
2	Asparagus / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.025	0.08	0.01	Peru
3	Asparagus / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.025	0.043	0.01	Ecuador
4	Asparagus / Cypermethrin	0.066	0.072	0.05	Ecuador
5	Cilantro / Chlorpyrifos	0.001	0.67	0.1	Mexico
6	Cilantro / Chlorpyrifos	0.001	0.52	0.1	Mexico
7	Cucumbers / Acephate	0.002	0.043	0.02	U.S.
8	Cucumbers / Chlorfenapyr	0.002	0.022	0.01	Honduras
9	Cucumbers / Chlorpyrifos	0.002	0.45	0.1	Mexico
10	Grapes / Imidacloprid	0.004	2.3	1.0	Chile
11	Grapes / Imidacloprid	0.004	1.7	1.0	Chile
12	Pears / Methidathion	0.003	0.068	0.05	Chile
13	Spinach, Frozen / Acephate	0.032	1	0.02	U.S.
14	Spinach, Frozen / Acephate	0.032	0.087	0.02	U.S.
15	Spinach, Frozen / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.02	0.32	0.01	U.S.
16	Spinach, Frozen / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.02	0.042	0.01	U.S.
17	Sweet Bell Peppers / Fludioxonil	0.01	0.059	0.01	Canada
18	Sweet Bell Peppers / Fludioxonil	0.01	0.055	0.01	Spain
19	Sweet Bell Peppers / Thiamethoxam	0.005	0.27	0.25	Mexico
20	Sweet Bell Peppers / Thiamethoxam	0.005	0.26	0.25	Mexico
21	Sweet Potatoes / Piperonyl butoxide	0.009	0.89	0.25	U.S.
22	Sweet Potatoes / Piperonyl butoxide	0.009	0.43	0.25	U.S.
23	Sweet Potatoes / Piperonyl butoxide	0.009	0.43	0.25	U.S.
24	Sweet Potatoes / Piperonyl butoxide	0.009	0.4	0.25	U.S.
25	Sweet Potatoes / Piperonyl butoxide	0.009	0.33	0.25	U.S.
26	Sweet Potatoes / Piperonyl butoxide	0.009	0.31	0.25	U.S.
27	Sweet Potatoes / Piperonyl butoxide	0.009	0.26	0.25	U.S.
28	Watermelon / Acephate	0.002	0.27	0.02	Mexico
29	Watermelon / Acephate	0.002	0.24	0.02	Mexico
30	Watermelon / Acephate	0.002	0.16	0.02	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 Apples								
Chlorpropham	744	3	0.4	0.010 - 0.059	0.006 ^	3	0	0
DCPA	744	1	0.1	0.002 ^	0.001 ^	1	0	0
Diflubenzuron	744	37	5.0	0.011 - 0.11	0.007 ^	36	1	0
Imazalil	744	4	0.5	0.016 - 0.11	0.010 ^	4	0	0
Methoxychlor olefin	744	1	0.1	0.002 ^	0.001 ^	1	0	0
2 Asparagus								
Endosulfan sulfate	372	1	0.3	0.050 ^	0.050 ^	0	1	0
3 Baby Food - Green Beans								
Propamocarb hydrochloride	192	3	1.6	0.010 - 0.022	0.006 ^	3	0	0
4 Baby Food - Pears								
Iprodione	191	3	1.6	0.014 - 0.21	0.008 ^	3	0	0
5 Cabbage								
Phosmet oxygen analog	743	1	0.1	0.067 ^	0.040 - 0.12	0	1	0
6 Cilantro [1]								
Acetamiprid	555	1	0.2	0.006 ^	0.001 - 0.003	1	0	0
Boscalid	555	64	11.5	0.010 - 0.14	0.006 ^	64	0	0
Carbaryl	555	5	0.9	0.006 - 0.065	0.006 ^	4	1	0
Carbendazim (MBC)	555	17	3.1	0.002 - 0.92	0.001 ^	8	6	3
Carbofuran								
Carbofuran (parent) [2]	555	6	1.1	0.010 - 0.50	0.006 - 0.015	2	3	1
3-Hydroxycarbofuran [2]	555	3	0.5	0.003 - 0.029	0.002 - 0.010	1	2	0
Clomazone	555	1	0.2	0.004 ^	0.002 - 0.008	1	0	0
Diazinon								
Diazinon (parent) [3]	555	78	14.1	0.003 - 0.88	0.002 ^	66	11	1
Diazinon oxygen analog [3]	555	1	0.2	0.005 ^	0.003 ^	1	0	0
Dicloran	493	20	4.1	0.003 - 0.050	0.002 - 0.013	18	1	1
Dicofol p,p'	539	2	0.4	0.005 - 0.022	0.003 - 0.010	2	0	0
Dimethenamid	555	4	0.7	0.002 ^	0.001 - 0.006	4	0	0
Dimethoate [4]	555	6	1.1	0.004 - 0.076	0.002 ^	1	5	0
Dimethomorph	555	27	4.9	0.002 - 0.026	0.001 - 0.006	27	0	0
Dinotefuran	555	1	0.2	0.064 ^	0.020 ^	1	0	0
Diphenylamine (DPA)	555	7	1.3	0.005 ^	0.003 ^	7	0	0
Endosulfan								
Endosulfan I (isomer) [5]	555	6	1.1	0.010 - 0.16	0.006 ^	4	2	0
Endosulfan II (isomer) [5]	325	2	0.6	0.051 - 0.19	0.020 - 0.083	1	1	0
Flonicamid	555	3	0.5	0.002 ^	0.001 ^	3	0	0
Linuron	555	76	13.7	0.010 - 0.94	0.010 ^	52	18	6
Malathion	555	36	6.5	0.005 - 0.23	0.003 ^	30	4	2
Mandipropamid	555	8	1.4	0.008 - 0.043	0.005 ^	8	0	0
Metalaxyl	555	7	1.3	0.010 - 0.076	0.006 ^	5	0	2
Methomyl	555	2	0.4	0.79 - 8.4	0.002 - 0.008	0	1	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.
Metolachlor	544	27	5.0	0.002 - 0.025	0.001 ^	27	0	0
Omethoate [4]	555	8	1.4	0.004 - 0.065	0.002 ^	3	5	0
Oxyfluorfen	541	5	0.9	0.005 - 0.010	0.003 - 0.010	5	0	0
Pendimethalin	555	46	8.3	0.004 - 0.064	0.002 ^	36	10	0
Permethrin								
Permethrin cis [6]	555	11	2.0	0.010 - 0.16	0.008 ^	8	2	1
Permethrin trans [6]	555	10	1.8	0.010 - 0.16	0.008 ^	7	2	1
Phorate	555	1	0.2	0.003 ^	0.002 ^	1	0	0
Pronamide	555	4	0.7	0.010 ^	0.006 ^	4	0	0
Pymetrozine	555	1	0.2	0.008 ^	0.005 ^	1	0	0
Pyraclostrobin	555	19	3.4	0.002 - 0.69	0.001 - 0.004	18	1	0
Pyrimethanil	555	49	8.8	0.002 - 0.012	0.001 ^	47	2	0
Quinoxyfen	539	1	0.2	0.004 ^	0.002 - 0.033	1	0	0
Quintozene (PCNB)								
Quintozene (parent)[7]	555	4	0.7	0.005 - 0.14	0.003 ^	2	2	0
Pentachloroaniline (PCA) [7]	555	28	5.0	0.002 - 0.041	0.001 ^	22	5	1
Pentachlorobenzene (PCB) [7]	555	1	0.2	0.015 ^	0.002 - 0.006	1	0	0
Pentachlorophenyl methyl sulfide [7]	555	1	0.2	0.007 ^	0.001 ^	1	0	0
Tebuconazole	555	4	0.7	0.003 - 0.017	0.002 ^	4	0	0
Terbacil	555	1	0.2	0.010 ^	0.006 ^	1	0	0
Tetrahydrophthalimide (THPI)	555	2	0.4	0.11 - 1.5	0.020 ^	0	2	0
Thiabendazole	555	3	0.5	0.007 - 3.9	0.003 ^	1	2	0
Thiamethoxam	555	3	0.5	0.008 ^	0.005 ^	3	0	0
7 Cucumbers								
Atrazine	744	2	0.3	0.003 ^	0.002 - 0.003	2	0	0
Chlorpropham	744	1	0.1	0.010 ^	0.006 - 0.018	1	0	0
Dimethoate [4]	744	5	0.7	0.004 - 0.057	0.001 - 0.002	3	2	0
Diphenylamine (DPA)	744	3	0.4	0.005 ^	0.003 - 0.012	3	0	0
Fenamiphos								
Fenamiphos (parent) [8]	744	2	0.3	0.003 - 0.004	0.002 ^	2	0	0
Fenamiphos sulfone [8]	744	6	0.8	0.005 - 0.079	0.003 - 0.004	5	1	0
Fenamiphos sulfoxide [8]	744	7	0.9	0.006 - 0.27	0.003 - 0.010	5	2	0
Iprodione	744	1	0.1	0.025 ^	0.008 - 0.028	0	1	0
Metolachlor	744	3	0.4	0.002 ^	0.001 - 0.012	3	0	0
Omethoate [4]	744	4	0.5	0.004 - 0.034	0.002 - 0.003	2	2	0
Pirimicarb	744	1	0.1	0.24 ^	0.010 - 0.012	0	1	0
Profenofos	372	1	0.3	0.003 ^	0.002 ^	1	0	0
Pyrimethanil	744	17	2.3	0.002 - 0.15	0.001 - 0.003	6	11	0
Quinoxyfen	714	1	0.1	0.014 ^	0.002 - 0.008	0	1	0
Quintozene (PCNB)	744	4	0.5	0.005 - 0.020	0.003 ^	0	4	0
Thiabendazole	744	5	0.7	0.002 - 0.005	0.001 - 0.003	3	2	0
Triadimefon	744	1	0.1	0.002 ^	0.001 - 0.006	0	1	0
8 Eggs								
Fluvalinate	371	3	0.8	0.001 - 0.005	0.001 ^	3	0	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin U.S.	Import	Unk.
9 Grapes								
Aldicarb								
Aldicarb sulfone [9]	745	1	0.1	0.12 ^	0.005 - 0.006	0	1	0
Aldicarb sulfoxide [9]	745	1	0.1	0.010 ^	0.006 - 0.016	0	1	0
Azinphos methyl	745	3	0.4	0.004 - 0.005	0.002 - 0.006	0	3	0
Emamectin benzoate	279	1	0.4	0.007 ^	0.001 ^	0	1	0
Omethoate	745	3	0.4	0.005 - 0.007	0.002 - 0.003	0	3	0
Thiacloprid	745	2	0.3	0.001 - 0.007	0.001 - 0.002	0	2	0
10 Hot Peppers								
Azinphos methyl	186	1	0.5	0.015 ^	0.003 - 0.20	0	1	0
Chlorpropham	93	1	1.1	0.008 ^	0.005 ^	0	1	0
Monocrotophos	93	8	8.6	0.005 - 0.73	0.003 ^	1	6	1
Parathion methyl								
Parathion methyl (parent) [10]	93	4	4.3	0.012 - 0.10	0.002 ^	0	3	1
Parathion methyl o-analog [10]	93	1	1.1	0.005 ^	0.003 ^	0	0	1
Permethrin								
Permethrin cis [6]	93	1	1.1	0.020 ^	0.012 ^	0	0	1
Permethrin trans [6]	93	4	4.3	0.020 ^	0.012 ^	1	1	2
Pyrimethanil	93	1	1.1	0.016 ^	0.003 ^	0	1	0
Thiacloprid	93	6	6.5	0.003 - 0.066	0.002 ^	2	4	0
11 Lettuce								
Cyphenothrin	743	1	0.1	0.037 ^	0.006 ^	1	0	0
Demeton-S sulfone	743	2	0.3	0.004 - 0.005	0.004 ^	2	0	0
Linuron	743	1	0.1	0.005 ^	0.003 ^	1	0	0
Metribuzin	743	1	0.1	0.008 ^	0.005 ^	1	0	0
Oxamyl	743	1	0.1	0.005 ^	0.003 ^	1	0	0
Tetramethrin	743	1	0.1	0.55 ^	0.005 ^	1	0	0
Trifluralin	743	15	2.0	0.001 - 0.002	0.001 ^	15	0	0
12 Mangoes								
Chlorpropham	351	3	0.9	0.063 - 0.067	0.038 ^	0	3	0
Dimethoate [4]	372	2	0.5	0.026 - 0.13	0.010 ^	0	2	0
Endosulfan								
Endosulfan I (isomer) [5]	372	1	0.3	0.005 ^	0.003 ^	0	1	0
Endosulfan II (isomer) [5]	372	2	0.5	0.005 ^	0.003 ^	0	2	0
Omethoate [4]	372	3	0.8	0.011 - 0.024	0.010 ^	0	3	0
13 Oranges								
Dicloran	373	1	0.3	0.047 ^	0.013 ^	1	0	0
14 Pears								
Iprodione	743	6	0.8	0.077 - 0.41	0.046 ^	0	6	0
15 Sweet Bell Peppers								
Allethrin	744	1	0.1	0.015 ^	0.015 ^	1	0	0
Azinphos methyl	744	1	0.1	0.024 ^	0.002 ^	0	1	0
Cyprodinil	744	1	0.1	0.011 ^	0.004 ^	0	1	0
Norflurazon desmethyl	744	1	0.1	0.009 ^	0.004 ^	1	0	0
Thiacloprid	744	2	0.3	0.016 - 0.045	0.001 - 0.002	0	2	0
Triflumizole	744	1	0.1	0.015 ^	0.001 ^	0	1	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin U.S.	Import	Unk.
16 Sweet Potatoes								
Chlorpropham	553	6	1.1	0.030 ^	0.018 ^	6	0	0
Norflurazon desmethyl	553	1	0.2	0.010 ^	0.006 ^	1	0	0
17 Watermelon								
Atrazine	371	2	0.5	0.005 ^	0.003 ^	2	0	0
Clofentezine	371	1	0.3	0.020 ^	0.012 ^	0	1	0
Diflubenzuron	371	1	0.3	0.020 ^	0.012 ^	1	0	0
Pentachlorobenzene (PCB)	371	1	0.3	0.003 ^	0.002 ^	1	0	0
Pyrimethanil	371	1	0.3	0.005 ^	0.003 ^	0	1	0

NOTES

[1] These results have been communicated to EPA and FDA. It should be noted that a number of these chemicals are approved for use in parsley, a commodity similar in appearance to cilantro.

[2] Carbofuran, cilantro: Three samples contained only the parent, carbofuran, and three samples contained the parent and its 3-hydroxy metabolite.

[3] Diazinon, cilantro: Seventy-seven samples contained only the parent, diazinon, and one sample contained the parent and its oxygen analog metabolite.

[4] Dimethoate/omethoate, cilantro: Two samples contained only the omethoate metabolite and six samples contained the omethoate metabolite and its parent, dimethoate. Dimethoate/omethoate, cucumbers: One sample contained only the parent, dimethoate, and four samples contained the omethoate metabolite and its parent, dimethoate. Dimethoate/omethoate, mangoes: One sample contained only the omethoate metabolite and two samples contained the omethoate metabolite and its parent, dimethoate.

[5] Endosulfan (mixture of Endosulfan I and II isomers), cilantro: Four samples contained only the endosulfan I isomer and two samples contained the endosulfan I and endosulfan II isomers of the parent compound. Endosulfan, mangoes: One sample contained only the endosulfan sulfate metabolite and one sample contained the endosulfan sulfate metabolite and the endosulfan I isomer of the parent compound.

[6] Permethrin (mixture of cis and trans isomers), cilantro: Two samples contained only the cis permethrin isomer and one sample contained only the trans permethrin isomer. Nine samples contained both the cis and trans isomers of the parent compound. Permethrin, hot peppers: Three samples contained only the trans permethrin isomer and one sample contained both the cis and trans isomers of the parent compound.

[7] Quintozene (PCNB), cilantro: Twenty-four samples contained only the pentachloroaniline (PCA) metabolite and three samples contained the PCA metabolite and its parent, quintozene (PCNB). One additional sample contained the PCA, pentachlorobenzene (PCB), and pentachlorophenyl methyl sulfide (PCPMS) metabolites and their parent, PCNB.

[8] Fenamiphos, cucumbers: One sample contained only the sulfoxide metabolite and four samples contained the sulfoxide and sulfone metabolites. Two additional samples contained the parent, fenamiphos, and its sulfoxide and sulfone metabolites.

[9] Aldicarb, grapes: One sample contained both the sulfoxide and sulfone metabolites.

[10] Parathion methyl, hot peppers: Three samples contained only the parent, parathion methyl, and one sample contained the parent and its oxygen analog metabolite.

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 2010

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