



Pesticide Data Program

Annual Summary, Calendar Year 2011

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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Dear Reader:

I am pleased to present the Pesticide Data Program's (PDP) 21st Annual Summary for calendar year 2011. 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, soybeans, eggs, dairy 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. 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 2011, residues exceeding the tolerance were detected in 0.27 percent (32 samples) of the total samples tested (11,894 samples). Residues with no established tolerance were found in 3.4 percent (399 samples) of the total samples tested. 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 2011: 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, and the USDA Grain Inspection, Packers and Stockyards Administration 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 21st Pesticide Data Program Summary presents results for samples collected in 2011.

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 Division (MPD), is responsible for the administration, planning and coordination of day-to-day PDP operations. MPD 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 and USDA's Grain Inspection, Packers and Stockyards Administration Laboratory.

Drinking water sampling from public utilities was conducted by utility personnel while homeowners sampled their own well (ground) water. In 2011, 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 82.3 percent of the total samples collected in 2011. Other samples collected included water samples, 6.6 percent; milk, 5.8 percent; eggs, 2.9 percent; and soybeans, 2.4 percent. Fresh and processed fruit and vegetables tested during 2011 were: baby food (green beans, pears, sweet potatoes), canned beets, cabbage, cantaloupe, cauliflower, cherry tomatoes, hot peppers, lettuce, mushrooms, onions, orange juice, papayas, plums, snap peas, canned and frozen spinach, sweet bell peppers, tangerines and winter squash. Approximately 72.7 percent of samples were from U.S. sources, 22.8 percent were imports, 3.8 percent were of mixed origin and 0.7 percent were 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 15-20 seconds with gently running cold water as a consumer would do; no chemicals, soap or any special wash was used. Results for more than 2 million analyses were reported by the laboratories in 2011 too numerous to be included in their entirety in this summary. The PDP database file for 2011 and annual summaries/database files for previous years are available on the PDP Web site at <http://www.ams.usda.gov/pdp> or by contacting MPD.

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 2011, excluding water, residues exceeding the tolerance were detected in 0.27 percent (32 samples) of the total samples tested (11,894 samples). Of these 32 samples, 25 were imported (78 percent) and 7 were domestic (22 percent). Residues with no established tolerance were found in 3.4 percent (399 samples) of the total samples tested. Of these 399 samples, 280 were imported (70 percent), 115 were domestic (29 percent), and 4 were of unknown origin (1 percent). Appendices B through G provide a distribution of residues by pesticide for the commodities tested. PDP laboratories also test foods for low levels of environmental contaminants that are no longer used

in the United States, but due to their persistence in the environment, particularly in soil, can be taken up by plants. Results for environmental contaminants in all commodities are listed in Appendix H. More information on results is provided in the Sample Results and Discussion section of the summary.

In 2011, 239 (treated and untreated) drinking water samples were collected at water treatment facilities in 3 States and a total of 604 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. During 2011, no detections, in either treated or untreated water, exceeded established Maximum Contaminant Levels, Health Advisories, Human Health Benchmarks for Pesticides, or Freshwater Aquatic Organism criteria. Additional information is provided in the Sample Results and Discussion section of this Annual Summary.

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 MPD. Additional copies of the PDP Annual Summary may be obtained by calling MPD 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
A2LA	American Association for Laboratory Accreditation
AL	Action Level
AMS	Agricultural Marketing Service
AMPA	Aminomethylphosphonic acid
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
FGIS	Federal Grain Inspection Service
FPD	Flame Photo Detector
FQPA	Food Quality Protection Act
GC	Gas Chromatography
GIPSA	Grain Inspection, Packers and Stockyards Administration
GLP	Good Laboratory Practices
HA	Health Advisory
HCB	Hexachlorobenzene
HHBP	Human Health Benchmarks for Pesticides
ISO	International Organization for Standardization
LC	Liquid Chromatography
LOD	Limit of Detection
LOQ	Limit of Quantitation

MCL	Maximum Contaminant Level
MPD	Monitoring Programs Division
MRM	Multiresidue Method
MS	Mass Spectrometry
MSD	Mass Selective Detector
NASS	National Agricultural Statistics Service
NSL	National Science Laboratory
PDP	Pesticide Data Program
ppm	parts per million
ppt	parts per trillion
PT	Proficiency Testing
QA	Quality Assurance
QAO	Quality Assurance Officer
QAU	Quality Assurance Unit
QuEChERS	Quick, Easy, Cheap, Effective, Rugged and Safe
QC	Quality Control
RDE	Remote Data Entry
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 2011

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). PDP data are also used by the U.S. Food and Drug Administration (FDA) to assist in planning commodity surveys for pesticide residues from an enforcement/regulatory perspective.

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 tests for registered uses for the commodities in the program, as well as for pesticides that may not have U.S. tolerances but are used in other countries on commodities exported to the U.S.

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, 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.

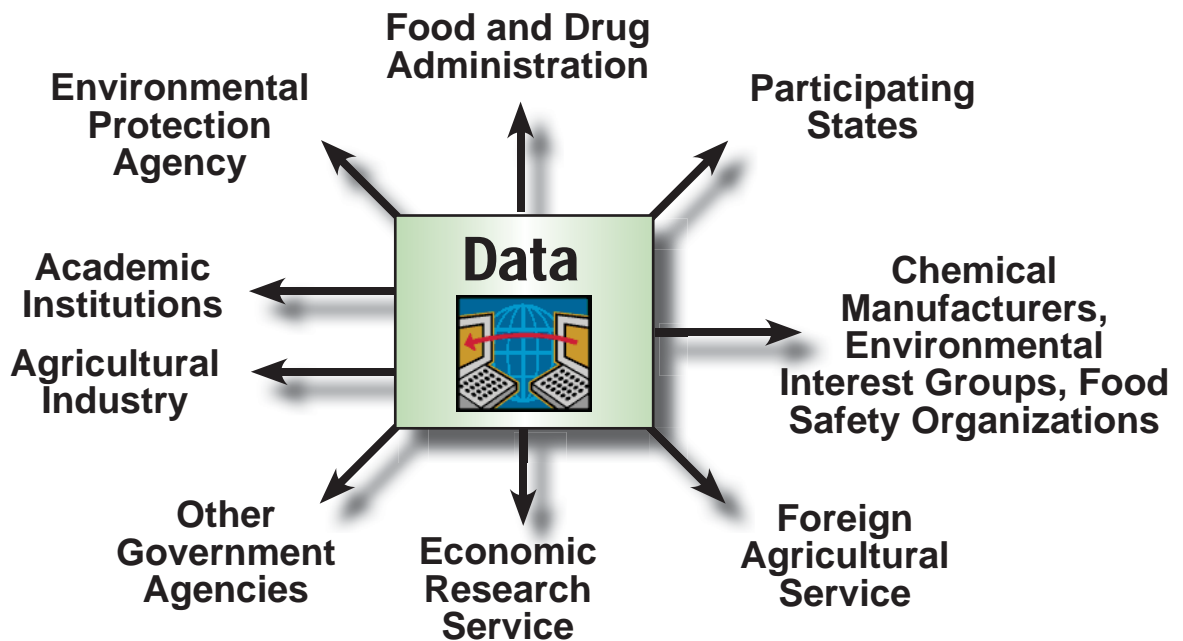
In 2011, sampling services were provided by 11 States (California, Colorado, Florida, Maryland, Michigan, New York, North Carolina, Ohio, Texas, Washington, and Wisconsin). Sampling services for drinking water were provided by participating facility personnel at five individual sites in three States. A voluntary groundwater survey was continued in 2011 with homeowners at 232 sites in 15 States and at 372 school/childcare facilities in 23 States.

Laboratory services were provided by the States of California, Colorado, Florida, Michigan, Minnesota, Montana, New York, Ohio, Texas, and Washington; the Agricultural Marketing Service (AMS) National Science Laboratory (NSL); and, the Grain Inspection, Packers and Stockyards Administration (GIPSA) Laboratory. The AMS Monitoring Programs Division (MPD) is responsible for overall management of PDP.

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. High consumption fresh fruit and



(a) PDP Policy and Planning Contributions



(b) PDP Data Users

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

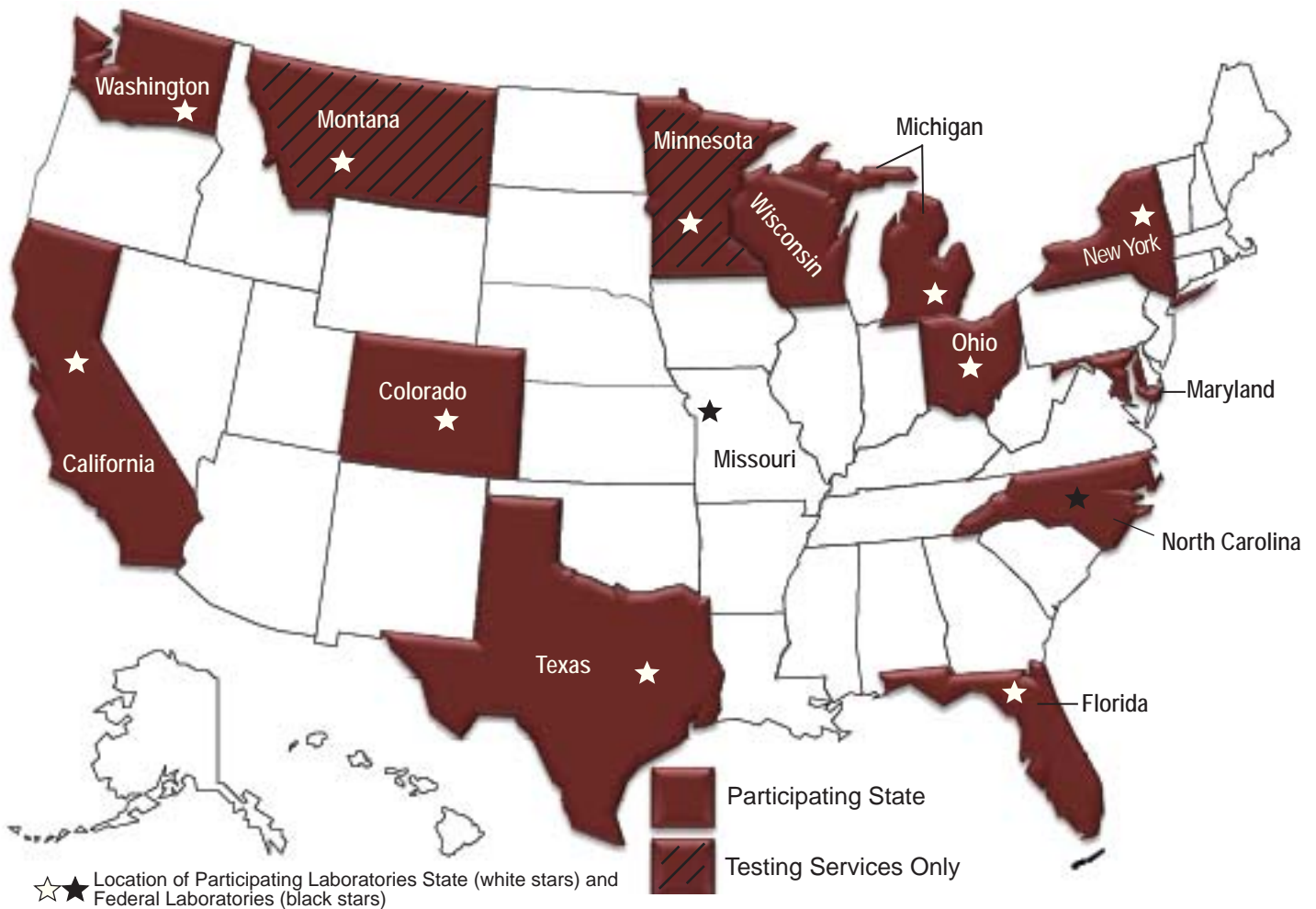


Figure 2. Program Participants. During 2011, AMS established cooperative agreements with 13 States to sample and/or test PDP commodities. Together, these States represent about 50 percent of the Nation's population and all 4 census regions of the U.S. They also represent major U.S. producers of fruit 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, NC, analyzes meat, poultry, honey, and dairy products, and the Federal laboratory in Kansas City, MO, analyzes whole and processed grain products.

vegetable commodities remain in the program for 2 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 1 full year. Appendix A provides a list of commodities tested by PDP from the beginning of the program in 1991 through 2012.

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,

growth regulators, and 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 2011, 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. In addition, PDP has begun testing for selected pesticides that may not have U.S. tolerances, but are used in other countries that export commodities to the U.S. The following appendices list the specific pesticides tested in the program: fruit and vegetables (Appendix B), soybeans (Appendix C), eggs (Appendix D), milk (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 2011, fruit, vegetables, eggs, and milk 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 2011, 33.7 percent of fruit,

vegetable, egg, and milk samples were collected at proxy sites. The commodities most often collected at these facilities were baby foods (green beans, pears, and sweet potatoes), canned beets, canned/frozen spinach, eggs, milk, and orange juice.

Soybean samples were collected from trains, trucks and barges by trained USDA Federal Grain Inspection Service (FGIS) inspectors. 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, State/Tribal, and school/childcare facility personnel. 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, egg, and milk samples collected in each participating State is determined by State population. The number and location of collected grain samples are determined by annual domestic production figures. 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 2011 commodities is shown in Table 1.

The number and location of drinking water samples from water treatment facilities are determined by EPA pesticide registration information needs. Each local watershed has its own unique characteristics; therefore, sample collection for this commodity is not intended to reflect national trends; rather, PDP collects samples in areas where it is known that targeted pesticides are used.

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Baby Food-Green Beans					Sep-11
Baby Food-Pears					Sep-11
Baby Food-Sweet Potatoes.					Sep-11
Beets, Canned					Dec-11
Cabbage					Dec-11
Cantaloupe					Jun-12
Cauliflower					Sep-13
Cherry Tomatoes					Dec-12
Eggs					Jun-11
Hot Peppers					Sep-11
Lettuce					Dec-11
Milk					Dec-11
Mushrooms					Sep-13
Onion					Sep-12
Orange Juice					Sep-11
Papaya					Jun-12
Plums					Sep-13
Snap Peas					Dec-12
Soybean Grain (2010)*					Apr-11
Soybean Grain (2011)*					Apr-11
Spinach, Canned					Mar-11
Spinach, Frozen					Jun-11
Sweet Bell Peppers					Mar-12
Tangerines					Dec-12
Water, Finished					Ongoing
Water, Groundwater					Ongoing
Water, Untreated					Ongoing
Winter Squash					Sep-13

* Soybeans were collected in the 2010 Crop Year (Sep 2010-Apr 2011)

Table 1. PDP Commodity Collection Schedule for 2011. 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 2012).

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 beets, baby foods (green beans, pears, sweet potatoes), and canned spinach] are often shipped by ground transportation to reduce shipping costs. Grain samples are collected in pesticide-free polyethylene bags and are shipped in canvas pouches or boxes to the laboratory where the samples are refrigerated pending analysis. 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, postharvest 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 2011, 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. Additionally, North Carolina collected four samples per month for selected commodities (canned beets, baby foods [green beans, pears, sweet potatoes], orange juice, canned/frozen spinach, and papayas).

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.

State	CF	CG	CN	CT	HP	LT	MU	ON	PP	PU	SN	TA	WS	YA	Total Fresh
California	39	156	156	150	117	156	39	39	156	26	156	142	39	78	1,449
Colorado	6	22	22	24	16	24	6	6	22	6	24	23	6	12	219
Florida	21	84	84	84	63	84	21	21	84	18	84	84	21	42	795
Maryland	12	48	47	48	36	48	12	12	48	11	48	48	12	24	454
Michigan	18	72	72	72	54	72	18	18	72	12	72	66	18	35	671
New York	27	108	108	108	81	108	27	27	108	26	108	108	27	54	1,025
N. Carolina														24	24
Ohio	18	72	72	72	53	72	18	18	71	15	72	69	18	36	676
Texas	27	109	108	108	81	108	27	27	109	16	108	105	27	47	1,007
Washington	12	48	48	48	36	48	12	12	48	8	48	48	12	24	452
Wisconsin	6	23	22	24	16	24	6	6	23	5	24	24	6	8	217
TOTAL	186	742	739	738	553	744	186	186	741	143	744	717	186	384	6,989

State	BT	IG	IP	IS	OJ	SC	SF	Total Processed	Total Fresh & Processed F&V	Eggs EG	Dairy MK
California	156	116	117	117	117	39	39	701	2,150	78	156
Colorado	24	18	18	18	18	6	6	108	327	12	23
Florida	84	63	63	63	63	21	21	378	1,173	42	84
Maryland	48	36	36	36	36	12	12	216	670	24	48
Michigan	72	54	54	54	54	18	18	324	995	36	72
New York	108	81	81	81	81	27	27	486	1,511	54	108
N. Carolina	12	36	36	36	36	12	12	180	204		
Ohio	72	54	54	54	54	18	18	324	1,000	36	72
Texas	108	72	72	72	72	27	27	450	1,457	53	108
Washington	48	36	36	36	36	12	12	216	668	24	48
Wisconsin	24	18	18	18	18	6	6	108	325	12	24
TOTAL	756	584	585	585	585	198	198	3,491	10,480	371	743

Commodity Legend		
BT = Beets, Canned	IP = Baby Food - Pears	PU = Plums
CF = Cauliflower	IS = Baby Food - Sweet Potatoes	SC = Spinach, Canned
CG = Cabbage	LT = Lettuce	SF = Spinach, Frozen
CN = Cantaloupe	MK = Milk	SN = Snap Peas
CT = Cherry Tomatoes	MU = Mushrooms	TA = Tangerines
EG = Eggs	OJ = Orange Juice	WS = Winter Squash
HP = Hot Peppers	ON = Onions	YA = Papayas
IG = Baby Food - Green Beans	PP = Sweet Bell Peppers	

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 300 soybean samples that were collected from grain lots, the 604 groundwater samples that were collected at residential or school/daycare wells, or the 239 finished/untreated drinking water samples that were collected at water treatment facilities. Those distributions can be found in Figures 5, 6, and 7 respectively.

The total number of samples per commodity and the percentage of each that were either domestic, imported, or of unknown origin are shown in Figure 3. The origin of some fresh commodities can vary greatly throughout the year. Graphic examples of this variation can be found in Figure 4 where differences in origin (domestic vs. import) are depicted by month for cantaloupe, sweet bell peppers, and tangerines. Fresh and processed fruit and vegetable, egg, and milk samples originated from 39 States and 18 foreign countries (refer to Appendix I). Soybean, 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 2011, 82.3 percent (10,480 of 12,737) were fruit and vegetables, including fresh and processed products. The fresh commodities collected for PDP were cabbage, cantaloupe, cauliflower, cherry/grape tomatoes, hot peppers, lettuce, mushrooms, onions, papayas, plums, snap peas, sweet bell peppers, tangerines, and winter squash. The processed commodities included baby food (green beans, pears, sweet potatoes), canned beets, orange juice (ready-to-serve and concentrate), and spinach (canned and frozen). All fresh fruit and vegetable samples weighed either 3 or 5 pounds with the exception of hot pepper and snap pea samples that weighed 1 pound and cherry/grape tomato samples that were 1 dry U.S. pint (~0.6 pound). Three pounds were collected for smaller, low-weight commodities such as mushrooms and tangerines and 5 pounds were collected for larger, high-weight commodities such as cabbage and winter squash. For processed samples, canned beet samples weighed 28 ounces; orange juice samples were 1 quart or 32 ounces, canned spinach samples were 28 ounces, and frozen spinach samples were 3 pounds.

◆ Baby Food

In 2011, PDP continued 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. For baby food green beans, 584 samples were collected and analyzed while 585 samples each of baby food pears and sweet potatoes were collected and tested.

◆ Soybeans

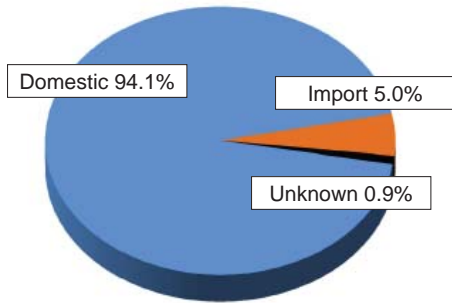
USDA FGIS inspectors collected 300 soybean samples for the 2010 crop year (September 2010 through April 2011). The actual sample collection period was divided into two collection phases: September 2010 through January 2011 (275 samples) and February 2011 through April 2011 (25 samples). Sample collection rates, on a statewide basis, were calculated on the basis of crop production totals averaged over a 3-year period. Samples were drawn from trucks (16 percent of samples), hopper cars (60 percent of samples), and barges/ships (24 percent of samples). Soybeans slated for export were excluded from the sampling scheme. PDP chain-of-custody procedures are similar to those used for fruit and vegetable samples. Sample information for soybeans included: inspection location, inspection point code, field office location, official agency collecting the sample, carrier identification (truck, barge, or railcar), State of origin, collection date, quantity of lot sampled, and inspector's name. Pesticide residue analysis was performed by the GIPSA Technical Services Division Laboratory located in Kansas City, Missouri. Soybean samples originated from 20 States and were collected through 5 regional GIPSA offices. There were no imported soybean samples; all were of domestic origin. The origin and number of samples collected from each State is displayed in Figure 5; sample results may be found in Appendix C.

◆ Eggs

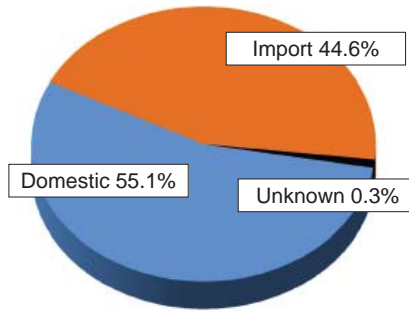
In 2011, PDP collected and analyzed 371 egg samples. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets. A minimum of 12 eggs were collected for each of the samples. Analysis was performed by the USDA NSL in Gastonia, North Carolina. Results for eggs are shown in Appendix D.

A. Fresh Fruit and Vegetable Samples

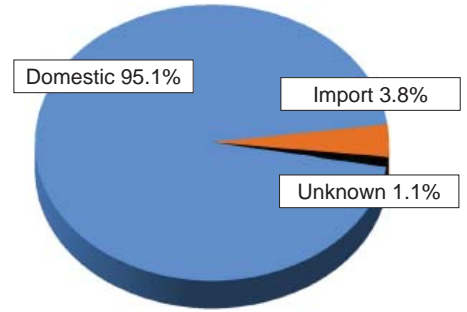
Cabbage (742 Samples)



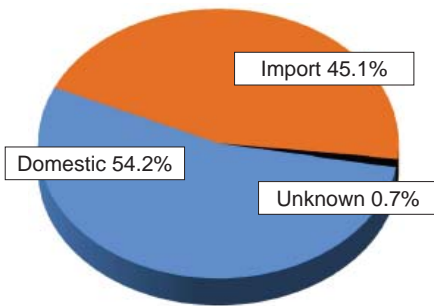
Cantaloupe (739 Samples)



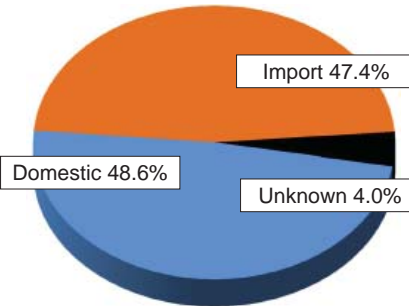
Cauliflower (186 Samples)



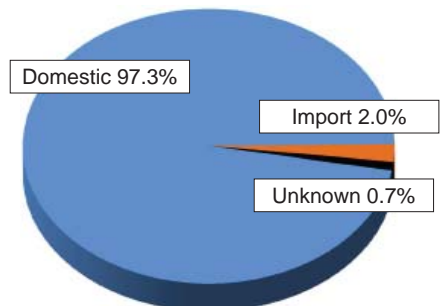
Cherry Tomatoes (738 Samples)



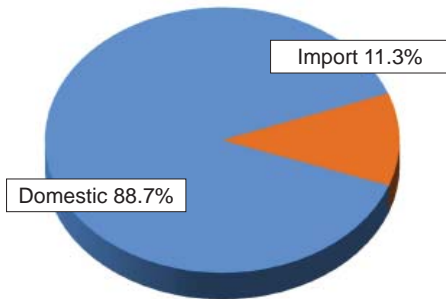
Hot Peppers (553 Samples)



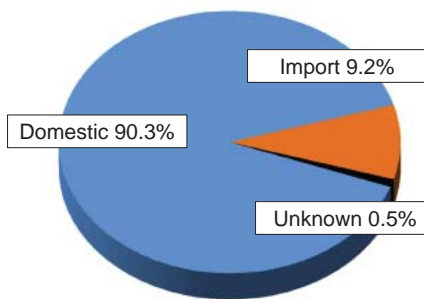
Lettuce (744 Samples)



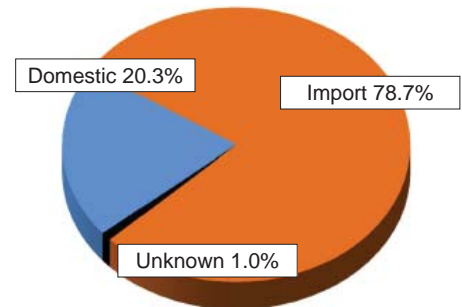
Mushrooms (186 Samples)



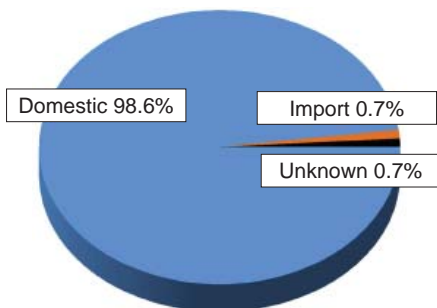
Onion (186 Samples)



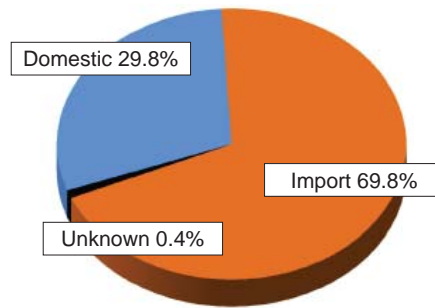
Papaya (384 Samples)



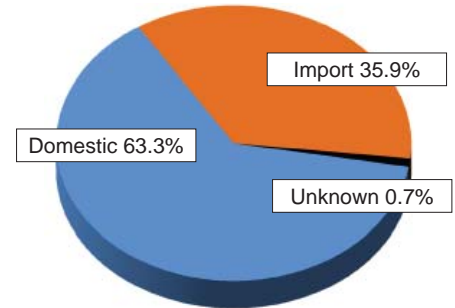
Plums (143 Samples)

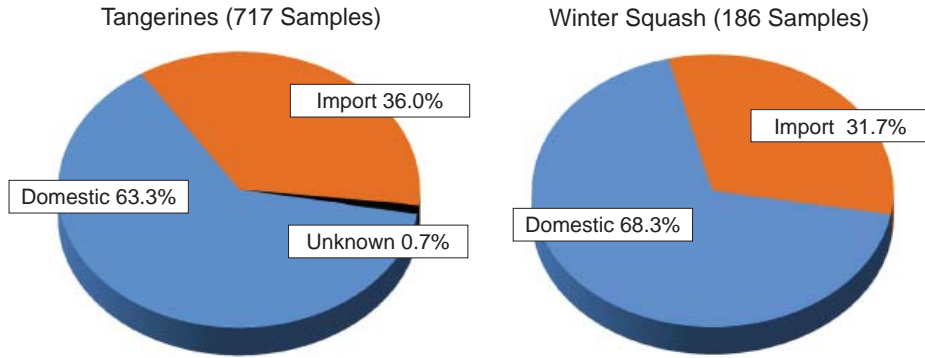


Snap Peas (744 Samples)



Sweet Bell Peppers (741 Samples)





B. Processed Fruit and Vegetable Commodities

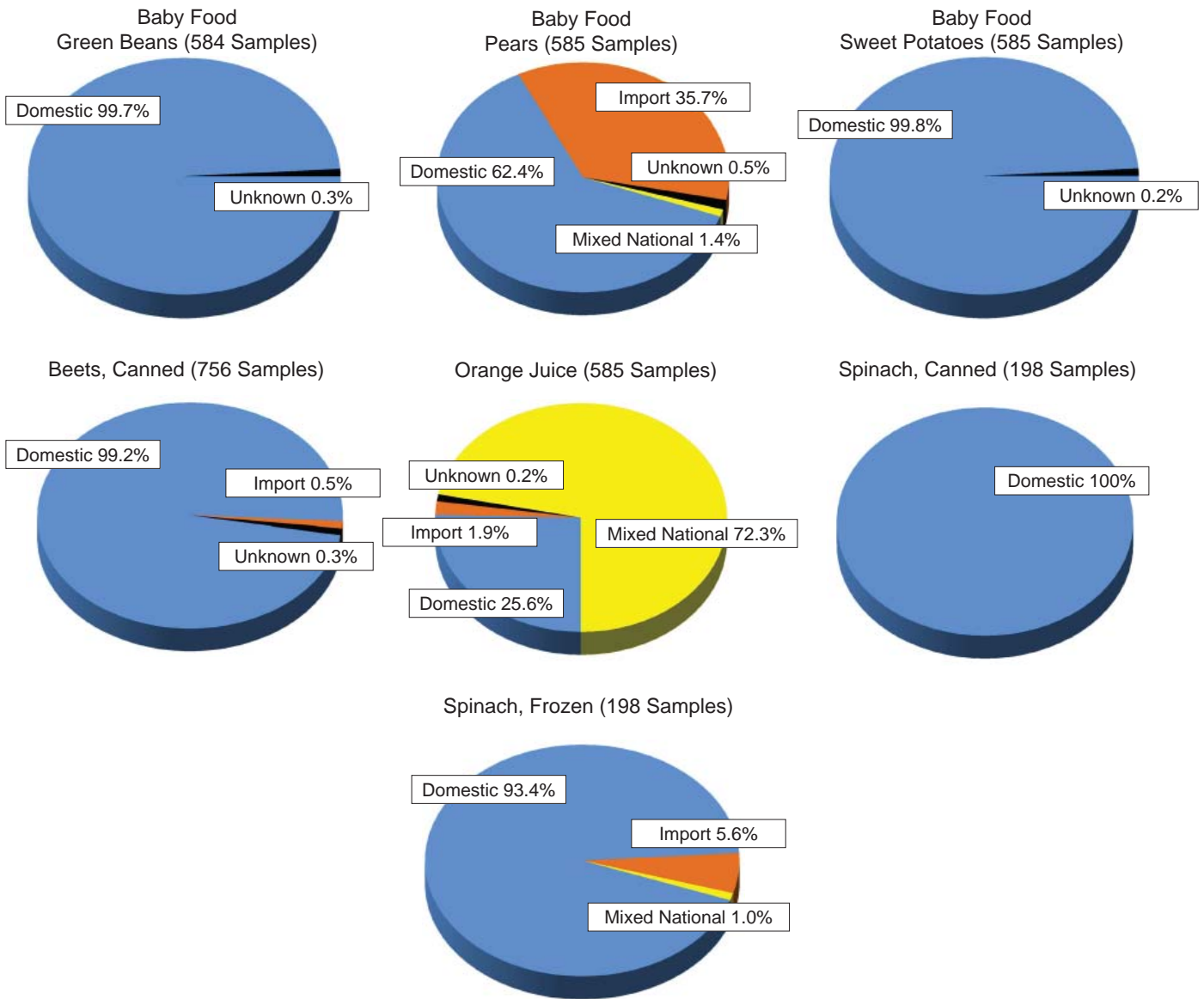
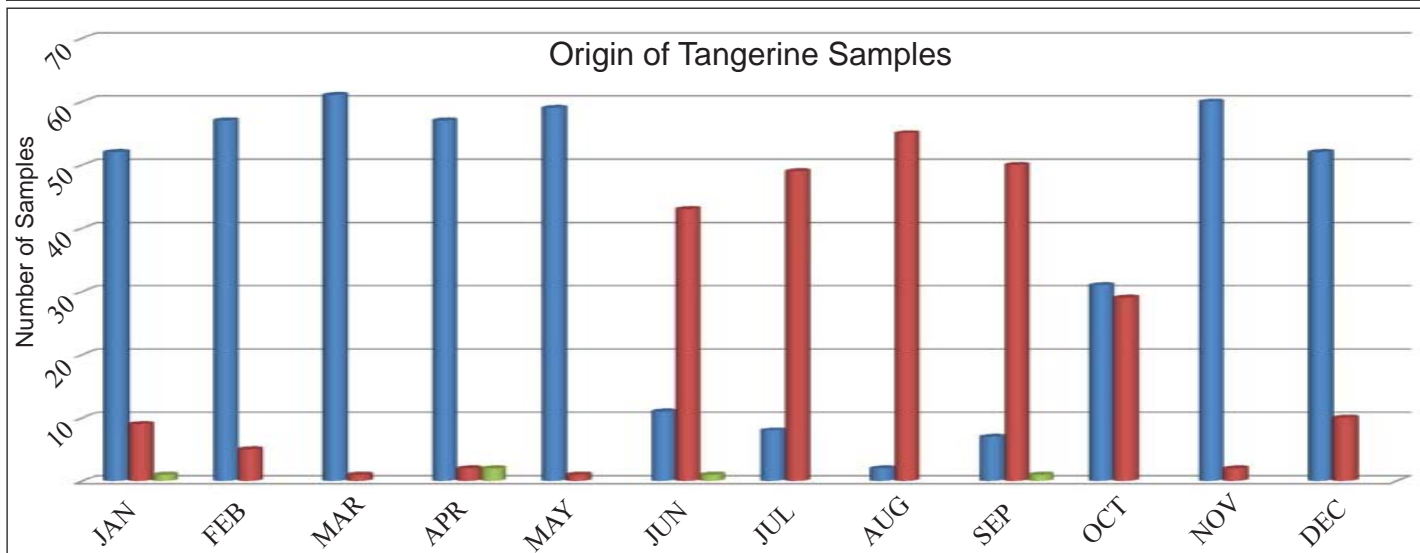
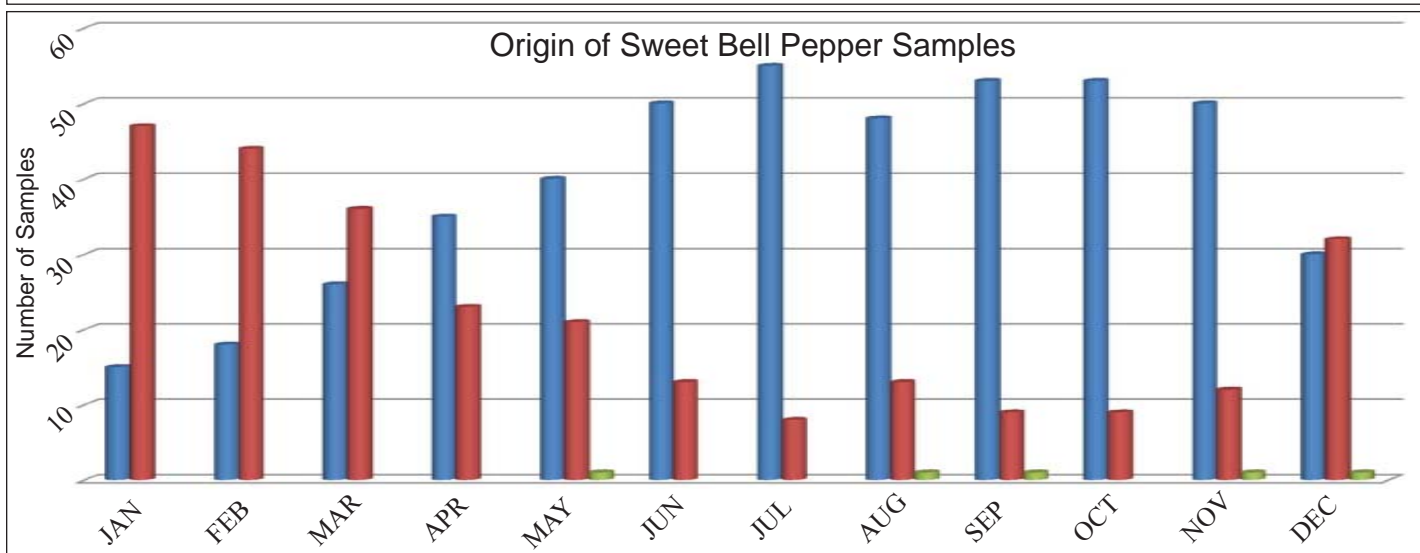
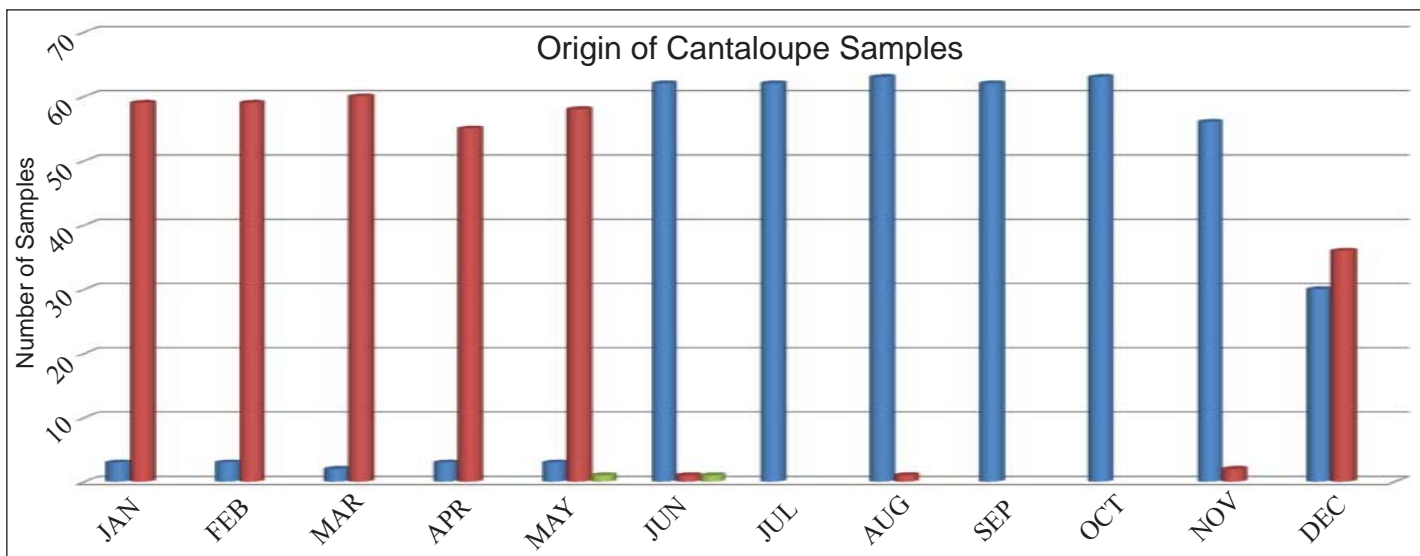


Figure 3. Commodity Origin. This figure depicts the proportion of commodity origin (domestic, import, unknown and mixed national origin) for each fresh and processed fruit and vegetable product tested in 2011.



■ Domestic
 ■ Imported
 ■ Unknown

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

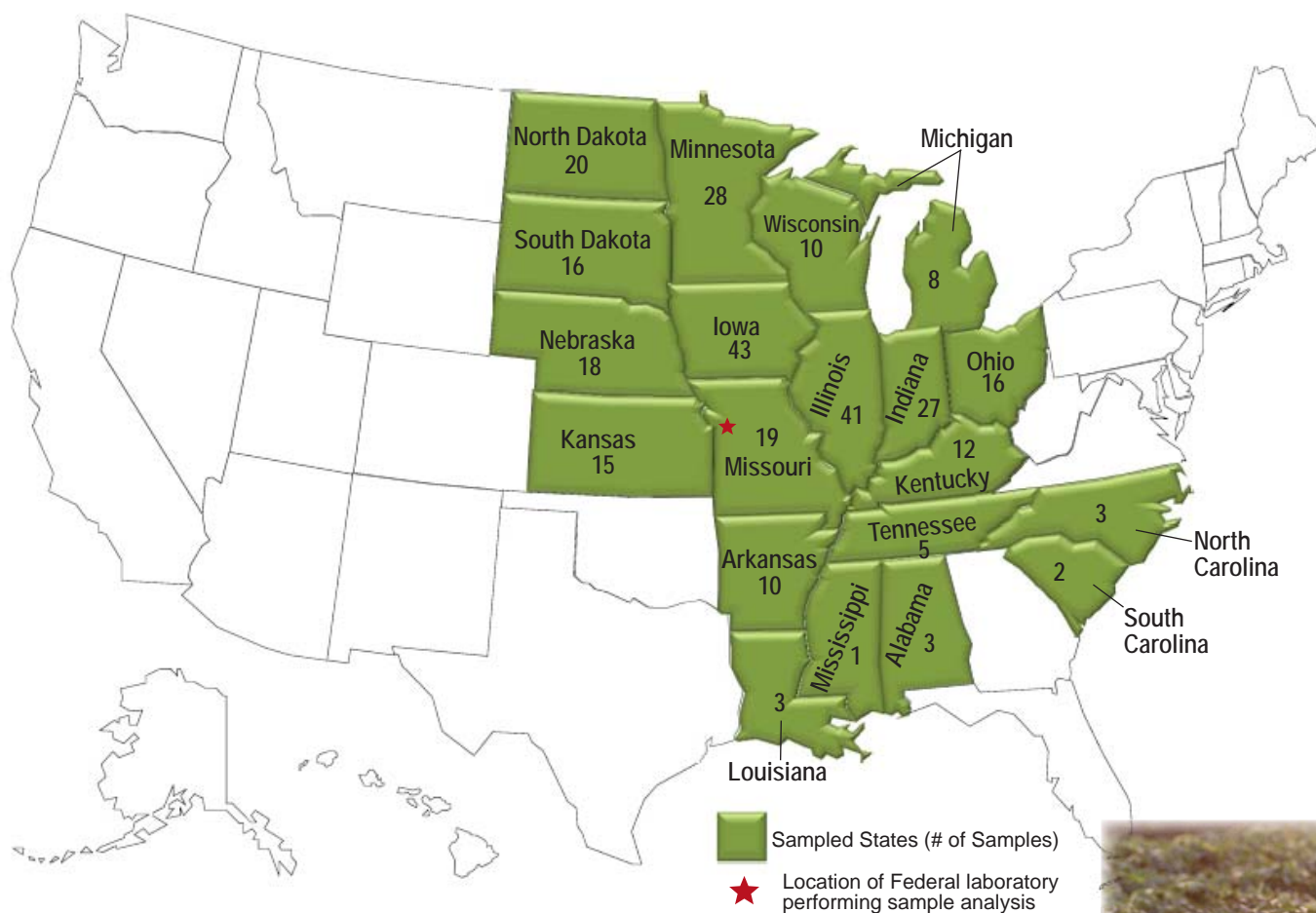


Figure 5. Location of Soybean Samples by Grower State. A total of 300 soybean samples were collected between September 2010 and April 2011. The samples originated from 20 States. Residue testing for all samples was performed by the GIPSA laboratory performing sample analysis located in Kansas City, MO.

◆ Milk

In 2011, 743 whole milk samples were collected in 10 participating States, primarily from distribution centers or supermarkets that received milk from 27 different States. Twenty-eight percent of milk samples were collected at retail distribution centers and 72 percent of the samples were collected at proxy sites (supermarkets or retail stores that receive product directly from their distribution centers). Selection of proxy sites for milk sample collection is based on a store’s close geographic proximity to its milk distribution center. All whole milk samples were of domestic origin. Sample collection States are found in Table 2 and distribution by State of origin is found in Appendix I. Shipment and chain-of-custody procedures were the same as for fruit and vegetable samples. Pesticide residue analysis

for all samples was performed by the New York laboratory. Results are shown 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 604 samples were collected and tested for the 2011 groundwater program. These included 232 private residence wells in 15 States (Alaska, California, Florida, Michigan, Missouri, Montana, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, South Dakota, Utah, and Virginia) and 372 school/childcare facilities in 23 States (Alaska, Arizona, California, Florida, Georgia, Hawaii, Idaho, Iowa, Kansas, Massachusetts, Michigan, Montana, Nebraska, New York, Ohio, Oregon, Pennsylvania, Tennessee, Texas, Virginia, Washington, Wisconsin, and Wyoming). As a part of this groundwater survey, PDP was able to collaborate with several Native American Tribal Nations and obtained 58 samples from school wells and 30 samples from private residences on reservation lands held by these tribes.

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 6 shows the distribution of groundwater collection sites for the 2011 PDP testing program.

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

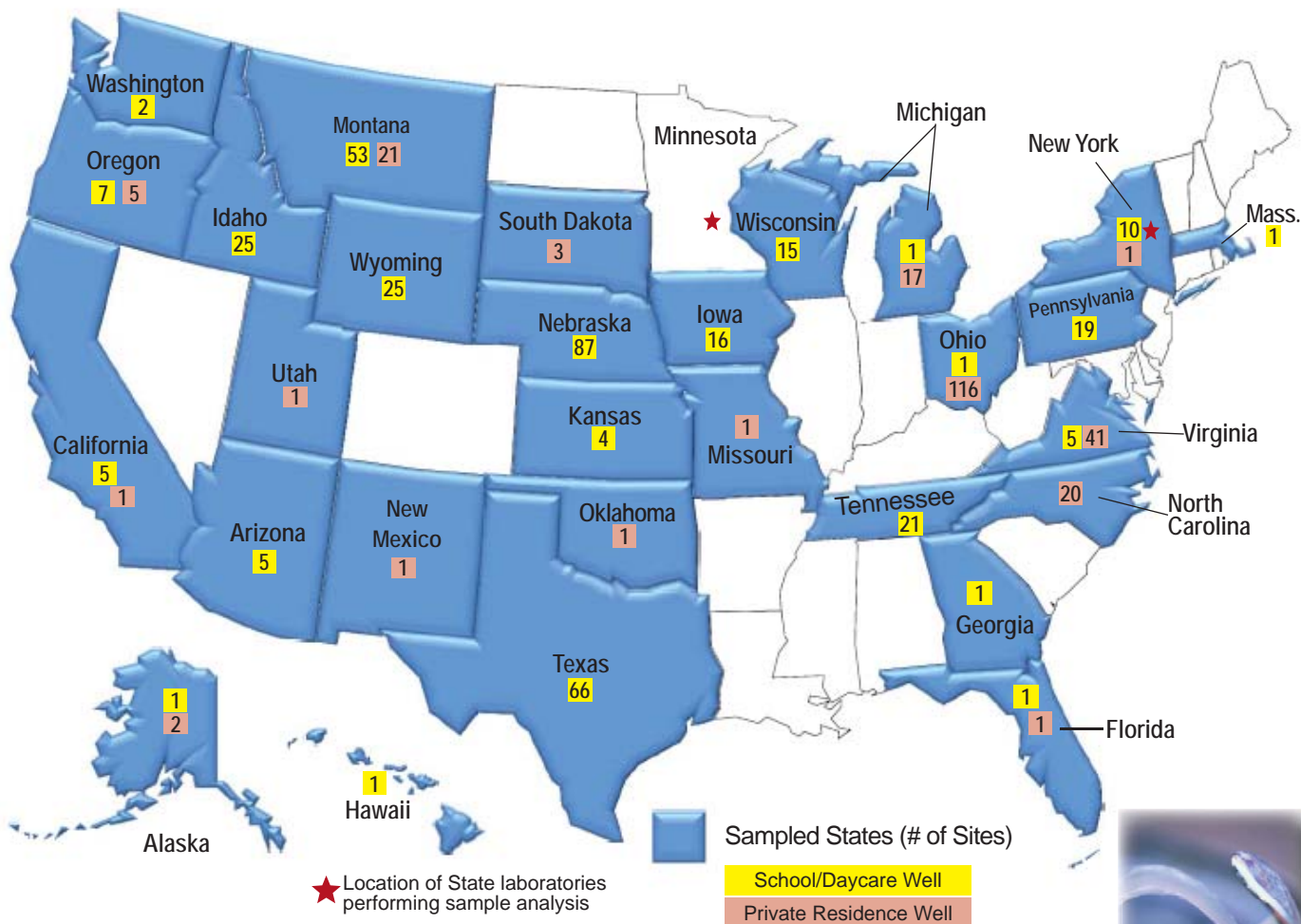


Figure 6. Location of Groundwater Collection Sites in 2011. A total of 604 groundwater samples were collected from 372 school/daycare wells and 232 private residence wells in 29 States.

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 7 shows the distribution of drinking water sites for the 2011 PDP testing program. One hundred twenty untreated and 119 finished drinking

water samples were collected from 5 community water systems in 3 States - Louisiana (2 sites), Minnesota (1 site), and Tennessee (2 sites). 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

Twelve laboratories (10 State and 2 Federal) performed analyses for PDP. These laboratories

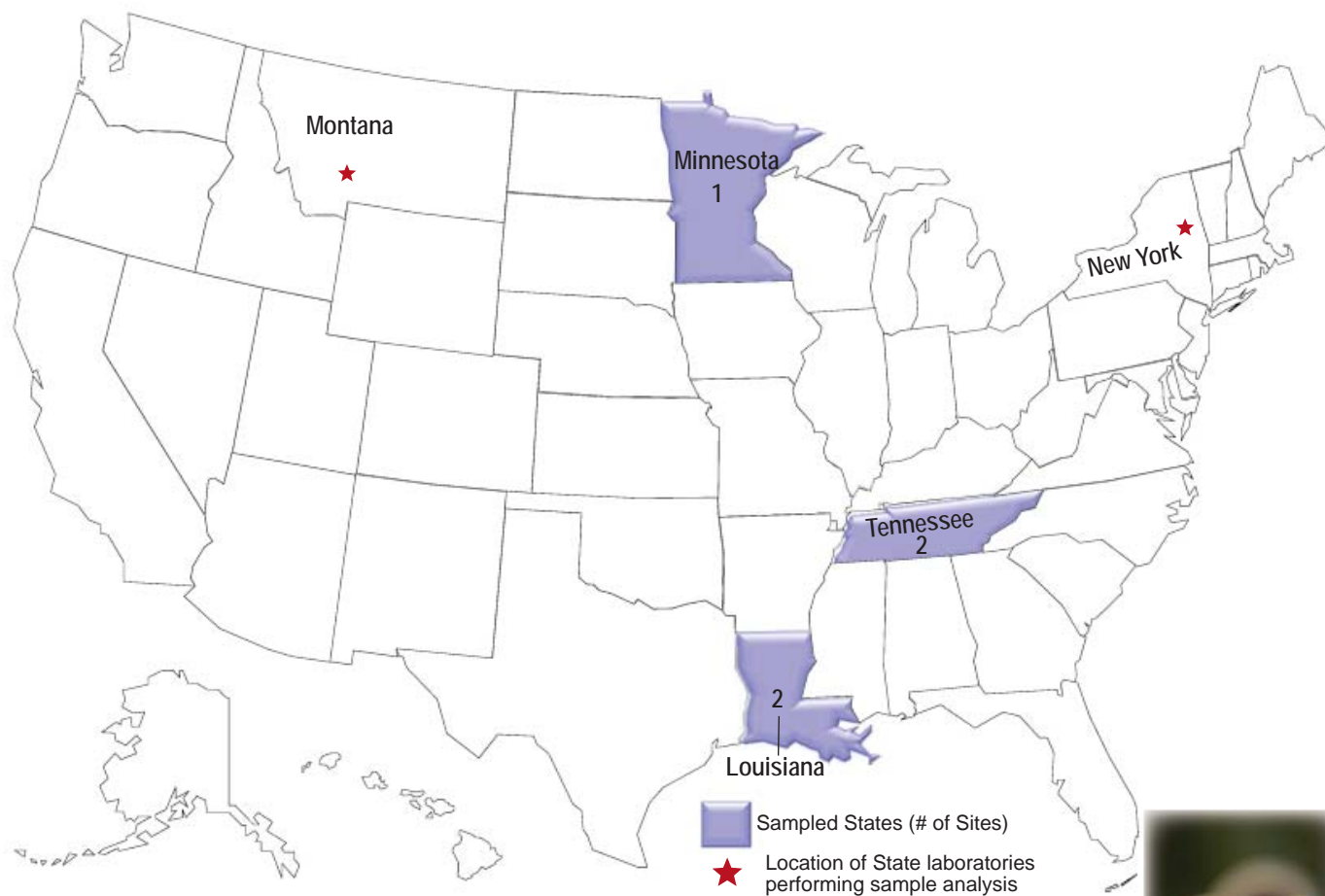


Figure 7. Location of Drinking Water Collection Sites at Community Water Systems in 2011. A total of 5 water treatment facilities in the U.S. were sampled in paired units (239 coordinated treated and untreated samples). Sites represent areas of varied geographical settings but are located in watersheds where pesticides were known to have been heavily applied.

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 and/or instrumentation are evaluated and their soundness demonstrated and documented by means of method validation modules in accordance with PDP SOPs.

◆ Fresh and Processed Commodities

Fruit and vegetable samples were tested for 319 parent pesticides, metabolites, degradates, and/or isomers, plus 17 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, onions, and tangerines, 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, the stems, cores and seeds were removed from sweet bell peppers; tangerines were peeled; the outside leaves and core were removed from cabbage, 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.

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

Samples are homogenized using choppers and/or blenders and 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 Quick, Easy, Cheap, Rugged and Safe (QuEChERS¹)-based approaches. The Texas laboratory used a modification of the MRM developed by the California Department of Food and Agriculture (CDFA) to analyze all assigned commodities except for onions, which were analyzed using a QuEChERS-based approach. The New York laboratory used a method based on the Agriculture and Agri-Food Canada SPE method with some modifications based on the Luke I/II procedures. 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.

◆ Baby Food

In 2011, PDP laboratories analyzed baby food green beans (584 samples), baby food pears (585 samples) and baby food sweet potatoes (585 samples) for a total of 249 parent pesticides, metabolites, degradates, and/or isomers, plus 15 environmental contaminants. The baby food green beans and baby food sweet potatoes were analyzed by CDFA. Sample from jars of the same lot number were combined, homogenized and extracted using a modification of the QuEChERS method. Analyses were performed utilizing GC-micro electron capture detector (μ ECD), GC-flame photometric detector (FPD), GC-mass selective detector (MSD), GC/MS/MS, and LC-MS/MS. Baby food pear samples were analyzed by the PDP New York laboratory using the method based on the Agriculture and Agri-Food Canada SPE method. Analyses were performed via GC-FPD, GC-MS/MS, and LC-MS/MS.

◆ Soybeans

The USDA GIPSA laboratory in Kansas City, MO, analyzed 300 soybean samples for 93 parent pesticides, metabolites, degradates, and/or isomers, plus 5 environmental contaminants. Soybean samples were stored at room temperature until time of grinding. Five hundred grams (500 g) of sample were ground thoroughly and tumbled to achieve a homogenous mixture. Extraction of soybean samples was accomplished using an acetonitrile-water solvent extraction and SPE cleanup and analyzed by LC-MS/MS.

The GIPSA laboratory shipped portions of each ground soybean sample to the Colorado laboratory for specialty analysis of glyphosate and its aminomethylphosphonic acid (AMPA) metabolite.

¹ M. Anastassiades, S.J. Lehotay, D. Stajnbaher and F.J. Schenck, "Quick, Easy, Cheap, Effective, Rugged and Safe (QuEChERS) Method", *J AOAC Int* 86 (2003) 412.

Samples were extracted using a method specifically developed for the analysis of glyphosate and AMPA, with residue determinations performed via LC-MS/MS.

◆ Eggs

The AMS NSL in Gastonia, NC, tested 371 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 each sample (≥ 10 eggs) were cracked into a clean blender vessel and shells were discarded. If not homogenized immediately after arrival, samples were stored up to 3 days at 2-4 °C prior to homogenization. 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 weighed to 15 grams for the analytical portion, along with two reserve portions, and stored at -70°C until time of analysis. Extraction of eggs was accomplished using organic solvents followed by centrifugation and column/dispersive SPE clean up. Samples were analyzed using GC-MS and LC-MS/MS.

◆ Milk

The PDP New York laboratory, tested 743 milk samples for 177 parent pesticides, metabolites, degradates, and/or isomers, plus 15 environmental contaminants. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if warm to the touch, spoiled, or leaking. Approximately 50 grams was weighed for each sample followed by organic solvent extraction, centrifugation, and column/dispersive SPE clean up. Samples were analyzed using GC-MS, GC-FPD and LC-MS/MS.

◆ Potable Groundwater from Domestic and School/Childcare Facility Wells

In 2011, PDP conducted two groundwater testing studies: 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 required to be 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 were scarce.

The Minnesota and Montana laboratories analyzed groundwater samples for 172 parent pesticides, metabolites, degradates, and/or isomers, plus one environmental contaminant. 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 New York laboratory analyzed drinking water for 167 parent pesticides, metabolites, degradates, and/or isomers, plus 11 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 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 (ISO²) requirements. PDP State laboratories are accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA), an internationally recognized accrediting body.

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 were performed onsite by each laboratory's QAU. Final review procedures are performed by MPD 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, soybeans, eggs, and milk, 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.

² "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.

- **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 2011, PDP laboratories quantitated a total of 75,583 matrix spikes, with an overall mean recovery of 94 percent and an overall 26 percent coefficient of variation (% C.V.). 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 2011, PDP laboratories quantitated a total of 37,368 process controls on 12,737 samples, with an overall mean recovery of 96 percent and an overall 20 % C.V. Of these process controls, 71 (0.2 percent) 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 2011, PDP laboratories that routinely analyze fruit and vegetables via MRMs participated in one AOAC round for bell peppers. Bell pepper samples were spiked with nine compounds. PDP fruit and vegetable laboratories participated in one FAPAS round of cucumbers that contained six 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 MPD. 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 2011, PDP laboratories received:

- Three multiresidue fruit and vegetable PT rounds (cabbage, cantaloupe, and hot peppers), each consisting of three test samples. The cantaloupe and hot pepper rounds were fortified with 11 compounds each, while the cabbage round was fortified with 12 compounds.

- One soybean set consisting of 3 samples that were fortified with a total of 13 compounds,
- One egg set consisting of three samples that were fortified with a total of ten compounds,
- One milk set consisting of 3 samples that were fortified with a total of 12 compounds, and
- One glyphosate round for soybeans consisting of two fortified samples.

For water, 2 proficiency sample sets were analyzed during 2011, with 8 compounds fortified in a round and 11 compounds in the other round. Custom-designed test solutions, based on testing profiles and detection limits, were used for spiking, rather than distribution of spiked samples, due to stability concerns. For each round, 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: In addition to the onsite assessments performed by A2LA that are required to maintain ISO 17025 accreditation, MPD staff chemists perform onsite reviews of laboratory operations to determine compliance specifically 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 MPD in Manassas, VA, that serves as a central data repository. The data captured and stored in the PDP database include sample collection and product information, residue findings, and process control recoveries for each sample analyzed, in addition to QA/QC fortified recoveries for each set of samples. Each calendar-year survey is stored in a separate database structure, which allows easier

administration and data reporting. The PDP data path is illustrated in Figure 8.

◆ Electronic Data Path

PDP utilizes the Remote Data Entry (RDE) system, which is a customized software application that allows participating State and Federal laboratories to enter and transmit data electronically. The RDE system is centralized with all user interface software and database files residing in Washington, D.C. The laboratory users need only a Web browser to interface with the RDE system. Access is controlled through separate user login/password accounts and user access rights for the various system functions based on position requirements. The RDE system utilizes Secure Sockets Layer (SSL) technology to encrypt all data passed between users' computers and the central Web server.

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

The RDE data entry screens have extensive editing functions and cross-checks built into the software to ensure valid values are entered for all critical data elements. This task is made easier by the practice of capturing and storing standardized codes for all critical alphanumeric data elements rather than their complete names, meanings, or descriptions. 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

SAMPLE COLLECTION



- Collection in 11 States
- Samples taken close to consumer consumption
- Standardized Sample Information Forms
- Data entry on hand-held/laptop computers



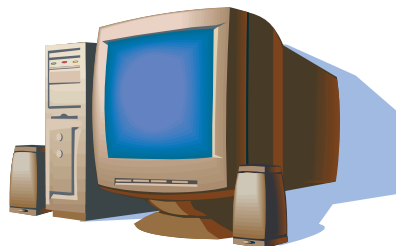
LABORATORY ANALYSIS



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

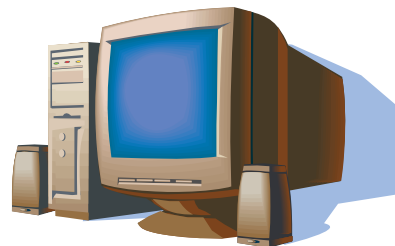


LABORATORY REMOTE DATA ENTRY (RDE)



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

DATA REVIEW AT HQ



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



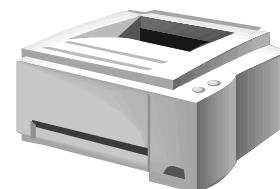
YEAR-END REVIEW



- Data reconciliation



DATA REPORTING



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

INTERNET



INTERNET



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

PDP database is limited to MPD personnel only and is controlled through password protection and user access rights.

◆ Data Reporting

The MPD 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 2011, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, soybeans, eggs, milk, groundwater, and treated and untreated drinking water. Of the 12,737 samples collected and analyzed, 10,480 were fresh and processed fruit and vegetable commodities, 300 were soybean samples (collected from September 2010 through April 2011), 371 were egg samples, 743 were milk samples, 604 were groundwater samples, and 239 were drinking water samples. Appendix B tabulates the distribution of residues in fruit and vegetables for the complete 2011 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 soybeans, eggs, milk, groundwater, and treated and untreated drinking water, respectively. Appendix H tabulates the results for environmental contaminants across

all commodities. Environmental contaminants are 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 MPD.

For fresh and processed fruit and vegetables, eggs, and milk, 72.7 percent of all samples were produced in the United States, 22.8 percent were imports, 3.8 percent were of mixed origin, and 0.7 percent were of unknown origin. Appendix I shows the distribution of sample origin by State or country. Of the domestic samples, approximately 32.3 percent (2,724 of 8,429) were grown, packed, and/or distributed in or from California. Soybeans and 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). Soybeans are collected from trains, trucks and barges. 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 2011. 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 (94.1 percent), cauliflower (95.1 percent), and lettuce (97.3 percent) with only minor import (5.0 percent, 3.8 percent, and 2.0 percent, respectively) and unknown origins (0.9 percent, 1.1 percent, and 0.7 percent, respectively). Other fresh commodities, such as cantaloupe, sweet bell peppers, and tangerines 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 snap peas, cherry tomatoes, hot peppers, 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 snap pea data in Appendix J illustrate that in 2011 carbendazim, difenoconazole, dimethoate, and omethoate were detected more frequently in imported samples than in domestic samples. For example, carbendazim (MBC) was detected in 36 percent of the samples from Guatemala and 6.5 percent of the U.S. samples and dimethoate was detected in 49.9 percent of the Guatemalan samples and in 24.3 percent of the domestic samples.

The cherry tomato data in Appendix J illustrate that in 2011 azoxystrobin and myclobutanil, were detected more frequently in imported samples than in domestic samples. For example, azoxystrobin was detected in 20.8 percent of the samples from Mexico and 16.5 percent of the U.S. samples and myclobutanil was detected in 21.8 percent of the Mexican samples and in 1.5 percent of the domestic samples. Bifenthrin, chlorantraniliprole, and clothianidin were detected more frequently in U.S. samples than in Mexican samples. Bifenthrin was detected in 21.2 percent of U.S. samples and 17.0 percent of Mexican samples. Chlorantraniliprole was found in 29.7 percent of U.S. samples and 2.7 percent of Mexican samples while clothianidin was detected in 18.5 percent of domestic samples and 13.2 percent of samples from Mexico. Boscalid, imidacloprid, and pyraclostrobin were detected with relatively equal frequency in both the U.S. and Mexican cherry tomatoes.

For hot peppers, the following residues were detected more often in imported samples: clothianidin, endosulfan sulfate, omethoate, oxamyl oxime, and thiamethoxam. For example, endosulfan sulfate was detected in 16.0 percent of Mexican hot peppers and in 5.7 percent of U.S. hot peppers. Omethoate was detected in 24.1 percent of Mexican samples and in 4.4 percent of U.S. samples. Azoxystrobin was detected in 21.1 percent of domestic hot peppers and in 5.1 percent of Mexican product. Imidacloprid and methamidophos were detected with relatively equal frequency in both the U.S. and Mexican hot peppers.

The sweet bell pepper data in Appendix J illustrate that in 2011 endosulfan sulfate, myclobutanil, oxamyl oxime, pyraclostrobin, and thiamethoxam were detected more frequently in imported samples than in domestic samples. For example, endosulfan sulfate was detected in 31.6 percent of the samples from Mexico and 2.3 percent of the U.S. samples. Myclobutanil was detected in 40.9 percent of the samples from Mexico and 17.9 percent of the U.S. samples and thiamethoxam was detected in 38.1 percent of the Mexican samples and in 8.5 percent of the domestic samples. Acephate, azoxystrobin, imidacloprid, and methamidophos were detected more frequently in domestic product than imported. For example, azoxystrobin was detected in 15.3

percent of U.S. sweet bell peppers and 7.9 percent of the Mexican samples. Acephate was detected in 14.7 percent of U.S. sweet bell peppers and 5.6 percent of Mexican samples, while methamidophos was detected in 19.4 percent of U.S. product and 7.0 percent of Mexican samples. Imidacloprid was detected in 29.6 percent of U.S. sweet bell peppers and in 23.7 percent of Mexican samples. Bifenthrin was detected with relatively equal frequency in both the U.S. and Mexican sweet bell peppers.

All pesticides detected, except difenoconazole in snap peas, 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.

◆ Discussion of Results

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 and environmental conditions conducive to pest outbreak, as well as the planting of susceptible varieties. 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 2011 is presented in Appendix L. These data indicate that 48.9 percent of all samples tested, excluding groundwater and treated and untreated drinking water, contained no detectable pesticides, 19.0 percent contained 1 pesticide, and 32.1 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.

Fourteen pesticides were detected in one sweet bell pepper sample that was a composite sample of five pounds of sweet bell peppers. 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

Soybeans: The USDA GIPSA laboratory conducted testing on 300 soybean samples using a multiresidue method. Appendix C shows that 13 different residues, representing 12 pesticides, were detected in the soybean samples. The most frequently detected residue was pyraclostrobin which was detected in 20 samples (6.7 percent). Malathion was detected in 11 samples (3.7 percent), azoxystrobin in 10 samples (3.6 percent), chlorpyrifos in 8 samples (2.7 percent), and carboxin in 4 samples (1.3 percent). Cyhalothrin, fluridone, methoxyfeno-zide, quizalofop ethyl, tetraconazole, and trifloxystrobin were each detected in less than one percent of samples. All residue detections determined by the multiresidue method were lower than the established tolerances.

Glyphosate and its AMPA metabolite were also tested in the soybean samples. Portions of each sample were shipped by the GIPSA laboratory to the Colorado laboratory for glyphosate testing, which requires a specialized analytical method. Of the 300 samples tested, 271 (90.3 percent) of samples contained glyphosate at levels ranging from 0.26 parts per million (ppm) to 18.5 ppm. The AMPA metabolite was detected in 287 (95.7 percent) of the samples at levels ranging from 0.26 ppm to 20 ppm. The tolerance for glyphosate in soybeans is 20 ppm – no samples exceeded that tolerance.

Eggs: The AMS NSL conducted testing for pesticide residues on 371 egg samples. Overall, six different residues (including metabolites) were detected in the egg samples. The most frequently detected residue was piperonyl butoxide which was detected in ten samples (2.7 percent). Fluvalinate and permethrin were each detected in two samples (0.5 percent) and 1-naphthol, a metabolite of carbaryl, was detected in one sample (0.3 percent). MGK-264 and pyrethrins also were each detected in one sample (0.3 percent). All residue detections were lower than the established tolerances for those compounds with established tolerances.

Milk: The New York laboratory conducted testing for pesticide residues on 743 milk samples. Overall, five different residues (including metabolites and isomers), representing four pesticides, were detected in the milk samples. Iprodione was detected in three samples (0.4 percent) and trans permethrin in two samples (0.3 percent). Dicofol p,p', cis permethrin, and piperonyl butoxide were each detected in one sample (0.1 percent). All residue detections were lower than the established tolerances.

◆ Potable Groundwater

In 2011, 232 groundwater samples were collected from private domestic wells. School/childcare facilities provided 372 samples. Overall, PDP detected 62 different residues (including metabolites), representing 49 pesticides, in the groundwater samples. Most of the detections were for herbicides or their metabolites. The samples with detectable residues came from 443 different sites. Residue profiles are shown in Appendix F. Of the 372 schools tested, no pesticides were detected in 91 (24 percent) samples, while the other 281 (76 percent) contained from 1 to 17 pesticides. Ninety samples were collected from Native American Tribal Nation reservation lands. Of these samples, 58 had no detections and 32 samples contained 1 to 6 pesticide residues.

In April 2012, EPA's Office of Water issued "Human Health Benchmarks for Pesticides (HHBPs)" <http://iaspub.epa.gov/apex/pesticides/f?p=HHBP:home>. These benchmarks are for 350 pesticides for which there are no MCLs or Health Advisories (HAs). While not an enforceable limit, these values provide context to safe levels of non-regulated pesticides. In 2011, none of the groundwater data exceeded any of the EPA HHBPs.

◆ Municipal Drinking Water

PDP analyzed 239 water samples (120 untreated samples and 119 finished samples) from community water systems. Appendix G shows the concentration of detected residues in treated and untreated water. Thirty-four different residues (including metabolites), representing 26 pesticides, were detected in the finished drinking water and 36 different residues (including metabolites),

representing 28 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 trace of 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. This provided a more efficient extraction or more sensitive measurement in the treated water. Depending on the treatment process employed and the chemical properties of the pesticide, an individual pesticide may be entirely, partially, or not removed during the treatment process.

Appendix G also lists the MCLs, Health Advisory (HA) values, Fresh Aquatic Organism (FAO) criteria and EPA's new HHBPs. During 2011, none of the 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 MCLs apply only to treated drinking water, not ambient, untreated water. Therefore, for comparative purposes, FAO criteria and HHBPs, which are much lower than human-based MCLs or HA levels, also are given. These criteria and benchmarks 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 2011, no detections, in either treated or untreated water, exceeded established FAO or HHBP 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. These 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'; 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 winter squash (8.6 percent), frozen spinach (5.1 percent), and sweet bell peppers (2.3 percent). DDD p,p' and DDT p,p' were each detected in two samples of winter squash (1.1 percent); no residues of DDD o,p' or DDT o,p' were detected. All residues detected were lower than established FDA Action Levels (ALs). No DDT or any of its metabolites were detected in drinking water samples (treated or untreated). Groundwater samples were not tested for DDT or any of its metabolites.

Other Extraneous Pesticides: PDP screened samples for other environmental contaminants including: aldrin, which readily metabolizes to dieldrin; BHC (alpha/beta); 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 chlordane, dieldrin, endrin, and heptachlor epoxide were detected in some of the tested commodities. For example, dieldrin was detected in 10.2 percent of winter squash samples, 1.2 percent of cantaloupe

samples, and 0.2 percent of lettuce samples, while chlordane (cis) and chlordane (trans) were each detected in 3.2 percent of winter squash samples. Endrin was detected in 1.1 percent of winter squash samples and 0.1 percent each of lettuce and snap pea samples. Heptachlor epoxide was detected in 1.1 percent of winter squash samples. For all cases, the detected levels were much lower than the FDA action levels. None of the tested drinking water samples (treated or untreated) had residues of chlordane or its metabolite oxychlordane, dieldrin, endrin, or heptachlor epoxide and none of the tested groundwater samples contained residues of aldrin.

◆ 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 amended the Federal Insecticide, Fungicide and Rodenticide Act to require EPA to periodically review each pesticide registration using the most currently available data. Timely pesticide data provided by PDP enable 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 2011 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, a total of 413 samples with 612 pesticides were reported to FDA as Presumptive Tolerance Violations. Pesticides exceeding the tolerance were detected in 0.27 percent (32 samples) of the total samples tested (11,894 samples). Of these 32 samples, 25 were imported (78 percent) and 7 were domestic (22 percent). The samples containing pesticides that exceeded established tolerances include: 1 cabbage sample, 1 cantaloupe sample, 1 cherry tomato sample, 1 hot pepper sample, 3 frozen spinach samples, 3 samples of sweet bell peppers, and 22 snap pea samples. Of those 32 samples, 25 were reported as imported produce.

Residues with no established tolerance were found in 3.4 percent (399 samples) of the total samples tested (11,894 samples). Of these 399 samples, 280

were imported (70 percent), 115 were domestic (29 percent), and 4 were of unknown origin (1 percent). These samples included 360 fresh fruit and vegetable samples, 37 processed fruit/vegetable samples, and 2 egg samples. The 37 processed fruit/vegetable samples were baby food green beans and baby food pears. There were 270 samples with 1 pesticide each, 85 samples with 2 pesticides each, 37 samples with 3 pesticides each, 6 samples with 4 pesticides each, and 1 sample with 5 pesticides. Eighteen 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 2012. Updates to this list are posted on the PDP Web site at www.ams.usda.gov/pdp.

COMMODITY HISTORY AS OF DECEMBER 2012

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
Avocados	Jul-12	Dec-12
Bananas	Sep-91	Sep-95
Bananas	Jan-01	Dec-02
Bananas	Jan-06	Dec-07
Bananas	Apr-12	Ongoing
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	Jun-12
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

Commodity	Start Date	End Date
Cucumbers	Jan-09	Dec-10
Eggplant	Jan-05	Dec-06
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	Sep-12
Oranges ¹	Aug-91	Dec-96
Oranges	Jan-00	Dec-01
Oranges	Jan-04	Dec-05
Oranges	Jan-09	Dec-10
Papaya	Jul-11	Jun-12
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

Commodity	Start Date	End Date
Pears	Jan-09	Dec-10
Pineapples	Jul-00	Jun-02
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	Dec-12
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
Summer Squash	Oct-12	Ongoing
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	Mar-12
Sweet Potatoes ¹	Jan-96	Jun-98
Sweet Potatoes	Jan-03	Dec-04
Sweet Potatoes	Oct-08	Sep-10
Tangerines	Jan-11	Dec-12
Tomatoes ¹	Jul-96	Jun-99
Tomatoes	Jan-03	Dec-04
Tomatoes	Jan-07	Dec-08
Tomatoes, Cherry/Grape	Jan-11	Dec-12
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 unavailability of product.
 - ⁸ Samples collected in California, Florida, and Texas only.
- (S-1) Special single serving project testing for organophosphates.
 - (S-2) Special single serving project testing for carbamates.
 - (S-3) Special single serving project testing for carbamate, organochlorine, organophosphate, organonitrogen, and sulfur compounds.
 - (S-4) Special single serving project testing for aldicarb.
 - (T-1) Triazole parent and metabolite compounds only.
 - (TSP) Triazole Sampling Project. Samples sent to contract laboratory.

Processed Commodities

Commodity	Start Date	End Date
Apple Juice ¹	Jul-96	Dec-98
Apple Juice	Jan-02	Dec-02
Apple Juice	Jul-07	Jun-08
Apple Juice	Jul-12	Ongoing
Applesauce	Jul-02	Dec-02
Applesauce	Jan-06	Dec-06
Asparagus, Canned	Jul-03	Dec-03
Baby Food, Applesauce	Jul-12	Ongoing
Baby Food, Carrots	Jan-12	Dec-12
Baby Food, Green Beans	Oct-10	Sep-11
Baby Food, Peaches	Jan-12	Dec-12
Baby Food, Pears	Oct-10	Sep-11
Baby Food, Peas	Jul-12	Ongoing
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
Orange Juice	Jan-12	Jun-12
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

Commodity	Start Date	End Date
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
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	Jun-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
Soybeans (S-1)	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
Butter	Jan-12	Ongoing
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 (66 sites)		
Alabama, Arizona, California, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, 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	Jan-04	Ongoing
Bottled Water		
10 Participating States	Jan-05	Dec-06
Groundwater		
1,395 Private Wells in 45 States plus Washington, DC	Jan-07	Ongoing
16 Municipal Water Facilities in 13 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

(S-1) Special survey for fungicides used to combat soybean rust

(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 2011 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 2011, 10,480 fruit and vegetable samples were analyzed, of which 6,989 were fresh product and 3,491 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
Abamectin (insecticide, acaricide)						
Baby Food - Green Beans	584	0			0.012 ^	0.01
Baby Food - Sweet Potatoes	585	0			0.012 ^	0.01
Beets, Canned	373	0			0.012 ^	0.01
Hot Peppers	279	0			0.012 ^	0.02
Onion	93	0			0.012 ^	0.01
Plums	143	0			0.012 ^	0.09
Snap Peas	372	0			0.012 ^	0.01
Winter Squash	<u>186</u>	<u>0</u>			0.012 ^	0.005
TOTAL	2,615	0				
Accephate (insecticide)						
Baby Food - Green Beans	584	71	12.2	0.005 - 0.076	0.003 ^	3.0
Baby Food - Pears	585	0			0.002 ^	0.02
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.02
Beets, Canned	663	0			0.003 - 0.075	0.02
Cabbage (X-1)	742	1	0.1	0.033 ^	0.020 ^	0.02
Cantaloupe (X-1)	739	2	0.3	0.017 - 0.054	0.010 ^	0.02
Cauliflower	186	6	3.2	0.006 - 0.046	0.005 ^	2.0
Hot Peppers	553	46	8.3	0.005 - 2.3	0.003 - 0.040	4.0
Lettuce	744	6	0.8	0.032 - 0.29	0.030 ^	10
Mushrooms	186	0			0.030 ^	0.02
Onion	186	0			0.006 - 0.030	0.02
Orange Juice	585	0			0.030 ^	0.02
Papaya	384	0			0.12 ^	0.02
Plums	143	0			0.006 ^	0.02
Snap Peas	744	0			0.002 - 0.006	0.02
Spinach, Canned	198	0			0.032 ^	0.02
Spinach, Frozen (X-1)	176	1	0.6	0.21 ^	0.032 ^	0.02
Sweet Bell Peppers	741	83	11.2	0.078 - 2.1	0.075 ^	4.0
Tangerines	717	0			0.010 ^	0.02
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	0.02
TOTAL	9,627	216				
Acetamiprid (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	0.60
Baby Food - Pears	585	154	26.3	0.002 - 0.046	0.001 ^	1.0
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.01
Beets, Canned	756	0			0.002 ^	NT
Cabbage	742	3	0.4	0.005 ^	0.003 ^	1.20
Cantaloupe	739	5	0.7	0.011 - 0.018	0.010 ^	0.50
Cauliflower	186	0			0.001 ^	1.20
Cherry Tomatoes	738	45	6.1	0.003 - 0.079	0.002 ^	0.20
Hot Peppers	553	7	1.3	0.007 - 0.046	0.002 - 0.16	0.20
Lettuce	744	20	2.7	0.004 - 0.19	0.003 ^	3.00
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.002 - 0.040	0.02
Orange Juice	585	0			0.003 ^	0.50
Plums	143	0			0.002 ^	0.20
Snap Peas	744	9	1.2	0.002 - 0.22	0.001 - 0.002	0.60
Spinach, Canned	198	0			0.016 ^	3.00
Spinach, Frozen	198	1	0.5	0.034 ^	0.016 ^	3.00
Sweet Bell Peppers (X-1)	741	42	5.7	0.002 - 0.22	0.002 ^	0.20
Tangerines	717	7	1	0.011 - 0.042	0.010 ^	0.50
Winter Squash	<u>186</u>	<u>2</u>	1.1	0.003 - 0.005	0.002 ^	0.50
TOTAL	10,096	295				
Acibenzolar S methyl (plant activator)						
Baby Food - Pears	585	0			0.007 ^	NT
Cauliflower	186	0			0.004 ^	1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Cherry Tomatoes	692	3	0.4	0.012 - 0.11	0.007 ^	1.0
Hot Peppers	274	0			0.016 ^	1.0
Lettuce	744	0			0.020 ^	0.25
Mushrooms	186	0			0.020 ^	NT
Onion	93	0			0.10 ^	0.1
Orange Juice	585	0			0.020 ^	NT
Snap Peas	372	0			0.004 - 0.007	NT
Spinach, Canned	198	0			0.016 ^	1.0
Spinach, Frozen	198	0			0.016 ^	1.0
TOTAL	4,113	3				
Alachlor (herbicide)						
Baby Food - Pears	585	0			0.003 ^	NT
Cauliflower	186	0			0.005 ^	NT
Snap Peas	372	0			0.002 - 0.003	NT
TOTAL	1,143	0				
Aldicarb (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.1
Beets, Canned	756	0			0.006 - 0.020	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 - 0.003	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.003 ^	0.3
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.001 - 0.006	NT
Sweet Bell Peppers	741	0			0.020 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	7,853	0				
Aldicarb sulfone (metabolite of Aldicarb)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.003 - 0.020	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.1
Beets, Canned	756	0			0.006 - 0.025	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.003 - 0.010	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.003 ^	0.3
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.003 - 0.010	NT
Sweet Bell Peppers	741	0			0.025 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	7,853	0				
Aldicarb sulfoxide (metabolite of Aldicarb)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.002 - 0.006	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.1
Beets, Canned	756	0			0.006 - 0.025	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	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
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	4	0.7	0.003 - 0.004	0.003 ^	0.3
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.002 - 0.006	NT
Sweet Bell Peppers	741	0			0.025 ^	NT
Tangerines (V-7)	717	7	1	0.010 - 0.039	0.010 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	7,853	11				
Allethrin (insecticide)						
Baby Food - Green Beans	584	0			0.012 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
Beets, Canned	756	0			0.012 - 0.040	NT
Cabbage	742	0			0.25 ^	NT
Cantaloupe	718	0			0.040 ^	NT
Cherry Tomatoes	737	0			0.014 - 0.23	NT
Hot Peppers	553	0			0.012 - 0.070	NT
Lettuce	744	0			0.10 ^	NT
Mushrooms	186	0			0.10 ^	NT
Onion	186	0			0.012 - 0.025	NT
Orange Juice	585	0			0.10 ^	NT
Papaya	384	0			0.016 ^	NT
Plums	143	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Spinach, Canned	198	0			0.010 ^	NT
Spinach, Frozen	198	0			0.010 ^	NT
Sweet Bell Peppers	741	0			0.016 ^	NT
Tangerines	697	0			0.040 ^	NT
Winter Squash	186	0			0.012 ^	NT
TOTAL	9,295	0				
Ametryn (herbicide)						
Baby Food - Green Beans	584	0			0.004 ^	NT
Baby Food - Sweet Potatoes	585	0			0.015 ^	NT
Beets, Canned	373	0			0.004 - 0.015	NT
Cantaloupe	739	0			0.010 ^	NT
Hot Peppers	279	0			0.004 ^	NT
Onion	93	0			0.005 ^	NT
Plums	143	0			0.005 ^	NT
Snap Peas	372	0			0.004 - 0.005	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.005 ^	NT
TOTAL	4,071	0				
Atrazine (herbicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 - 0.003	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	1	0.1	0.003 ^	0.002 ^	0.25
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas (V-1)	744	1	0.1	0.027 ^	0.001 - 0.003	NT
Spinach, Canned	198	0			0.010 ^	0.25
Spinach, Frozen	198	0			0.010 ^	0.25

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
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	7,125	2				
Avermectin (insecticide, acaricide)						
Cherry Tomatoes	<u>738</u>	<u>0</u>			0.028 ^	0.020
TOTAL	738	0				
Azinphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	453	0			0.003 ^	NT
Beets, Canned	342	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,452	0				
Azinphos methyl (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.012 ^	1.5
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.004	NT
Cabbage	742	0			0.009 ^	NT
Cantaloupe	410	0			0.040 ^	NT
Cauliflower	186	0			0.012 ^	NT
Cherry Tomatoes	738	0			0.009 ^	NT
Hot Peppers (V-2)	538	2	0.4	0.005 - 0.017	0.003 - 0.20	NT
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.003 - 0.15	NT
Orange Juice	585	0			0.003 ^	NT
Papaya	384	0			0.064 ^	NT
Plums	143	0			0.003 ^	2.0
Snap Peas	744	0			0.003 - 0.012	NT
Spinach, Canned	198	0			0.064 ^	NT
Spinach, Frozen	198	0			0.064 ^	NT
Sweet Bell Peppers	741	0			0.004 ^	NT
Tangerines	404	0			0.040 - 0.20	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	9,823	2				
Azinphos methyl oxygen analog (metabolite of Azinphos methyl)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.005 - 0.006	NT
Cabbage	742	0			0.006 ^	NT
Cherry Tomatoes	738	0			0.006 ^	NT
Hot Peppers	553	0			0.006 - 0.040	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.006 - 0.030	NT
Orange Juice	585	0			0.010 ^	NT
Papaya	384	0			0.010 ^	NT
Plums	143	0			0.006 ^	2.0
Snap Peas	372	0			0.006 ^	NT
Spinach, Canned	198	0			0.010 ^	NT
Spinach, Frozen	198	0			0.010 ^	NT
Sweet Bell Peppers	741	0			0.005 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	7,881	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
Azoxystrobin (fungicide)						
Baby Food - Green Beans	584	7	1.2	0.003 ^	0.002 ^	3.0
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.03
Beets, Canned	756	0			0.002 - 0.005	0.5
Cabbage	742	0			0.003 ^	3.0
Cantaloupe	739	9	1.2	0.002 - 0.003	0.002 ^	0.3
Cauliflower	186	0			0.003 ^	3.0
Cherry Tomatoes	738	135	18.3	0.003 - 0.11	0.002 ^	0.2
Hot Peppers	553	75	13.6	0.002 - 0.31	0.002 ^	2.0
Lettuce	744	14	1.9	0.003 - 0.80	0.003 ^	30.0
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.002 - 0.005	1.0
Orange Juice	585	0			0.003 ^	10.0
Papaya	384	1	0.3	0.018 ^	0.002 ^	2.0
Plums	143	4	2.8	0.003 ^	0.002 ^	1.5
Snap Peas	744	70	9.4	0.002 - 0.40	0.001 - 0.002	3.0
Spinach, Canned	198	40	20.2	0.071 - 1.6	0.070 ^	30.0
Spinach, Frozen	198	28	14.1	0.078 - 3.9	0.070 ^	30.0
Sweet Bell Peppers	741	93	12.6	0.005 - 0.18	0.005 ^	2.0
Tangerines	717	2	0.3	0.003 - 0.005	0.002 ^	10.0
Winter Squash	186	1	0.5	0.003 ^	0.002 ^	0.3
TOTAL	10,480	479				
Bendiocarb (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	569	0			0.040 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.009	NT
Cantaloupe	739	0			0.005 ^	NT
Cauliflower	186	0			0.015 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.003 ^	NT
Papaya	384	0			0.002 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.040	NT
Sweet Bell Peppers	741	0			0.009 ^	NT
Tangerines	717	0			0.005 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	8,221	0				
Benfluralin (herbicide)						
Lettuce	744	0			0.010 ^	0.05
Mushrooms	186	0			0.010 ^	NT
Orange Juice	585	0			0.010 ^	NT
TOTAL	1,515	0				
Benoxacor (herbicide safener)						
Baby Food - Green Beans	584	0			0.006 ^	0.01
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.01
Beets, Canned	756	0			0.006 - 0.012	NT
Cabbage	742	0			0.025 ^	0.01
Cauliflower	186	0			0.003 ^	NT
Cherry Tomatoes	738	0			0.029 ^	0.01
Hot Peppers	553	0			0.006 - 0.040	0.01
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.006 - 0.060	0.1
Orange Juice	585	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
Plums	143	0			0.006 ^	0.01
Snap Peas	744	0			0.001 - 0.006	0.01
Spinach, Canned	198	0			0.020 ^	0.01
Spinach, Frozen	198	0			0.020 ^	0.01
Sweet Bell Peppers	741	0			0.005 - 0.010	0.01
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	8,640	0				
Bensulide (herbicide)						
Cherry Tomatoes	738	2	0.3	0.005 ^	0.003 ^	0.10
Hot Peppers	274	0			0.002 ^	0.10
Lettuce	744	1	0.1	0.012 ^	0.004 ^	0.15
Mushrooms	186	0			0.004 ^	NT
Onion	186	0			0.002 - 0.005	0.10
Orange Juice	585	0			0.004 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	93	0			0.002 ^	NT
Spinach, Canned	198	0			0.003 ^	0.15
Spinach, Frozen	198	0			0.003 ^	0.15
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.15
TOTAL	3,531	3				
Bensulide oxygen analog (insecticide metabolite)						
Cherry Tomatoes	738	0			0.004 ^	0.10
Lettuce	744	9	1.2	0.002 - 0.032	0.002 ^	0.15
Mushrooms	186	0			0.002 ^	NT
Orange Juice	<u>585</u>	<u>0</u>			0.002 ^	NT
TOTAL	2,253	9				
Bentazon (herbicide)						
Baby Food - Pears	585	0			0.001 ^	NT
Beets, Canned	383	0			0.007 ^	NT
Cauliflower	186	0			0.003 ^	NT
Snap Peas	372	0			0.001 ^	3.0
Sweet Bell Peppers	<u>741</u>	<u>0</u>			0.007 ^	NT
TOTAL	2,267	0				
Benthiavdicarb isopropyl (fungicide)						
Beets, Canned	383	0			0.001 ^	NT
Cherry Tomatoes	738	0			0.010 - 0.050	0.45
Sweet Bell Peppers	<u>741</u>	<u>0</u>			0.001 ^	NT
TOTAL	1,862	0				
Bifenazate (acaricide)						
Baby Food - Green Beans	584	0			0.003 ^	6.0
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.10
Beets, Canned	756	0			0.003 - 0.009	NT
Cherry Tomatoes	738	11	1.5	0.005 - 0.075	0.003 ^	2.0
Hot Peppers	279	0			0.003 ^	2.0
Onion	93	0			0.003 ^	NT
Plums	143	9	6.3	0.005 - 0.030	0.003 ^	0.20
Snap Peas	372	2	0.5	0.015 - 0.034	0.003 ^	6.0
Sweet Bell Peppers	741	6	0.8	0.010 - 0.065	0.009 - 0.018	2.0
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.75
TOTAL	4,477	28				
Bifenthrin (insecticide)						
Baby Food - Green Beans	584	224	38.4	0.005 - 0.045	0.003 ^	0.6
Baby Food - Pears	585	10	1.7	0.005 - 0.016	0.003 ^	0.5
Baby Food - Sweet Potatoes	585	0			0.012 ^	0.05
Beets, Canned	756	0			0.002 - 0.012	0.45
Cabbage	742	0			0.006 ^	4.0
Cantaloupe	739	0			0.010 ^	0.4

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
Cauliflower	186	0			0.005 ^	0.6
Cherry Tomatoes (X-1)	738	141	19.1	0.007 - 0.16	0.004 - 0.010	0.15
Hot Peppers	553	29	5.2	0.005 - 0.088	0.003 - 0.040	0.5
Lettuce	744	4	0.5	0.007 - 0.049	0.005 ^	3.0
Mushrooms	186	0			0.005 ^	0.05
Onion	186	0			0.003 - 0.025	0.05
Orange Juice	585	0			0.005 ^	0.05
Papaya	384	0			0.030 ^	0.05
Plums	143	0			0.003 ^	0.05
Snap Peas	744	19	2.6	0.003 - 0.089	0.002 - 0.003	0.6
Spinach, Canned	198	0			0.020 ^	0.2
Spinach, Frozen	198	1	0.5	0.056 ^	0.020 ^	0.2
Sweet Bell Peppers	741	132	17.8	0.002 - 0.14	0.002 ^	0.5
Tangerines	717	0			0.010 ^	0.05
Winter Squash	186	21	11.3	0.005 - 0.041	0.003 ^	0.4
TOTAL	10,480	581				
Bitertanol (fungicide)						
Cantaloupe	739	0			0.010 ^	NT
Tangerines	717	0			0.010 ^	NT
TOTAL	1,456	0				
Boscalid (fungicide)						
Baby Food - Green Beans	584	122	20.9	0.005 - 0.025	0.003 ^	1.6
Baby Food - Pears	585	0			0.006 - 0.10	3.0
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.05
Beets, Canned	756	0			0.003 - 0.020	0.1
Cantaloupe	739	0			0.010 ^	1.6
Cherry Tomatoes	738	137	18.6	0.015 - 0.19	0.009 ^	1.2
Hot Peppers	553	44	8	0.004 - 0.16	0.003 - 0.004	1.2
Lettuce	744	65	8.7	0.003 - 2.4	0.003 ^	11.0
Mushrooms	186	0			0.003 ^	NT
Onion	186	11	5.9	0.005 - 0.034	0.003 - 0.025	3.0
Orange Juice	519	0			0.003 ^	1.6
Papaya	384	39	10.2	0.020 - 0.086	0.020 ^	1.5
Plums	143	25	17.5	0.005 - 0.082	0.003 ^	3.5
Snap Peas	651	6	0.9	0.005 - 0.44	0.003 - 0.10	1.6
Spinach, Canned	198	1	0.5	0.026 ^	0.020 ^	60
Spinach, Frozen	198	0			0.020 ^	60
Sweet Bell Peppers	741	65	8.8	0.020 - 0.28	0.020 ^	1.2
Tangerines	717	0			0.010 ^	1.6
Winter Squash	186	8	4.3	0.005 - 0.076	0.003 ^	1.6
TOTAL	9,393	523				
Bromacil (herbicide)						
Baby Food - Green Beans	584	0			0.009 ^	NT
Baby Food - Sweet Potatoes	552	0			0.030 ^	NT
Beets, Canned	248	0			0.009 - 0.030	NT
Hot Peppers	217	0			0.009 - 0.030	NT
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.009 ^	NT
Orange Juice	585	0			0.003 ^	0.1
Plums	143	0			0.009 ^	NT
Snap Peas	372	0			0.009 ^	NT
Winter Squash (V-1)	186	1	0.5	0.015 ^	0.009 ^	NT
TOTAL	3,910	1				
Buprofezin (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.02
Baby Food - Pears	585	13	2.2	0.002 - 0.017	0.001 ^	4.0
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.001 - 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
Cantaloupe	739	0			0.010 ^	0.50
Cauliflower	186	1	0.5	0.002 ^	0.001 ^	12.0
Cherry Tomatoes	738	6	0.8	0.006 - 0.054	0.003 - 0.095	1.3
Hot Peppers	553	1	0.2	0.016 ^	0.001 - 0.003	4.0
Lettuce	744	6	0.8	0.002 - 0.004	0.001 ^	35
Mushrooms	186	0			0.001 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.001 ^	2.5
Papaya	384	0			0.002 ^	0.90
Plums	143	0			0.003 ^	1.9
Snap Peas	744	2	0.3	0.002 - 0.008	0.001 - 0.003	0.02
Spinach, Canned	198	0			0.003 ^	35
Spinach, Frozen	198	0			0.003 ^	35
Sweet Bell Peppers	741	6	0.8	0.001 - 0.038	0.001 ^	1.3
Tangerines	717	0			0.010 ^	2.5
Winter Squash	186	0			0.003 ^	0.50
TOTAL	9,645	35				
Captan (fungicide) (parent of THPI)						
Beets, Canned	383	0			0.19 ^	0.05
Hot Peppers	180	0			0.40 ^	0.05
Sweet Bell Peppers	741	0			0.19 ^	0.05
TOTAL	1,304	0				
Carbaryl (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	10
Baby Food - Pears	585	0			0.001 ^	12
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.2
Beets, Canned	756	0			0.003 - 0.005	NT
Cabbage	742	1	0.1	0.005 ^	0.003 ^	21
Cantaloupe	739	1	0.1	0.065 ^	0.010 ^	3.0
Cauliflower	186	0			0.001 ^	10
Cherry Tomatoes	738	0			0.008 ^	5.0
Hot Peppers	553	55	9.9	0.005 - 1.6	0.003 - 0.008	5.0
Lettuce	744	0			0.003 ^	10
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	130	22.2	0.003 - 0.018	0.003 ^	10
Plums	143	0			0.003 ^	10
Snap Peas	744	1	0.1	0.002 ^	0.001 - 0.003	10
Spinach, Canned	198	0			0.016 ^	22
Spinach, Frozen	198	2	1	0.017 - 0.16	0.016 ^	22
Sweet Bell Peppers	741	39	5.3	0.006 - 1.1	0.005 ^	5.0
Tangerines	717	4	0.6	0.029 - 0.052	0.010 ^	10
Winter Squash	186	0			0.003 ^	3.0
TOTAL	10,003	233				
Carbendazim - MBC (fungicide) (metabolite of Benomyl)						
Baby Food - Pears	585	35	6	0.002 - 0.023	0.001 ^	3.0
Beets, Canned	383	0			0.005 ^	NT
Cantaloupe	739	11	1.5	0.011 - 0.041	0.010 ^	1.0
Cauliflower	186	0			0.001 ^	NT
Mushrooms (V-10)	186	10	5.4	0.002 - 0.16	0.001 ^	NT
Onion	93	0			0.002 ^	0.5
Plums	143	8	5.6	0.010 - 0.070	0.002 ^	0.5
Snap Peas (V-119)	465	119	25.6	0.002 - 1.6	0.001 - 0.002	NT
Sweet Bell Peppers	741	13	1.8	0.005 - 0.039	0.005 ^	0.2
Tangerines (V-4)	717	4	0.6	0.010 - 0.030	0.010 ^	NT
Winter Squash	186	3	1.6	0.003 - 0.006	0.002 ^	1.0
TOTAL	4,424	203				

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
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 ^	NT
Cabbage	742	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	0.4
Cauliflower	186	0			0.001 ^	NT
Cherry Tomatoes	564	0			0.002 ^	1
Hot Peppers	553	1	0.2	0.011 ^	0.001 - 0.003	1
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.003 - 0.005	NT
Orange Juice	585	0			0.003 ^	NT
Papaya	384	0			0.002 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.001 - 0.003	NT
Spinach, Canned	198	0			0.005 ^	NT
Spinach, Frozen	198	0			0.005 ^	NT
Sweet Bell Peppers	741	0			0.003 ^	1
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	0.8
TOTAL	10,306	1				
Carbophenothion (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.002 - 0.006	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	3,758	0				
Carbophenothion methyl (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 - 0.020	NT
Snap Peas	372	0			0.003 - 0.006	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	2,615	0				
Carboxin (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	0.2
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	186	0			0.003 - 0.075	0.2
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	2,708	0				
Carfentrazone (herbicide)						
Baby Food - Green Beans	584	0			0.002 ^	0.10
Baby Food - Pears	585	0			0.005 ^	0.10
Baby Food - Sweet Potatoes	585	0			0.002 ^	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
Beets, Canned	756	0			0.002 - 0.016	0.1
Cabbage	742	0			0.016 ^	0.10
Cantaloupe	718	0			0.010 ^	0.10
Cauliflower	186	0			0.015 ^	0.10
Cherry Tomatoes	738	0			0.023 - 0.033	0.10
Hot Peppers	553	0			0.002 - 0.016	0.10
Lettuce	744	0			0.005 ^	0.10
Mushrooms	186	0			0.005 ^	NT
Onion	186	0			0.002 - 0.010	0.10
Orange Juice	585	0			0.005 ^	0.10
Papaya	384	0			0.008 ^	0.10
Plums	143	0			0.002 ^	0.10
Snap Peas	744	0			0.002 - 0.005	0.10
Spinach, Canned	198	0			0.060 ^	0.10
Spinach, Frozen	198	0			0.060 ^	0.10
Sweet Bell Peppers	741	0			0.016 ^	0.10
Tangerines	698	0			0.010 ^	0.10
Winter Squash	186	0			0.002 ^	0.10
TOTAL	10,440	0				
Chlorantraniliprole (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	2.0
Baby Food - Pears	585	158	27	0.003 - 0.007	0.002 ^	1.2
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.01
Beets, Canned	373	0			0.006 ^	NT
Cantaloupe	739	0			0.020 ^	0.5
Cauliflower	186	0			0.002 ^	4.0
Cherry Tomatoes	706	126	17.8	0.003 - 0.024	0.002 ^	1.4
Hot Peppers	553	16	2.9	0.010 - 0.055	0.006 - 0.016	0.70
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.006 - 0.020	0.30
Orange Juice	585	0			0.010 ^	1.4
Papaya	384	0			0.006 ^	2.0
Plums	143	20	14	0.010 ^	0.006 ^	4.0
Snap Peas	744	13	1.7	0.005 - 0.041	0.002 - 0.006	2.0
Spinach, Canned	198	10	5.1	0.035 - 0.10	0.032 ^	13
Spinach, Frozen	198	32	16.2	0.048 - 3.6	0.032 ^	13
Winter Squash	186	0			0.006 ^	0.5
TOTAL	7,121	375				
Chlorethoxyfos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.009 ^	NT
Plums	143	0			0.009 ^	NT
Snap Peas	650	0			0.001 - 0.009	NT
Winter Squash	186	0			0.009 ^	NT
TOTAL	2,893	0				
Chlorfenapyr (insecticide)						
Baby Food - Pears	585	0			0.002 ^	0.01
Beets, Canned	383	0			0.042 ^	0.01
Cabbage	742	0			0.073 ^	0.01
Cantaloupe	739	0			0.010 ^	0.01
Cauliflower	186	0			0.008 ^	0.01
Cherry Tomatoes	738	10	1.4	0.067 - 0.26	0.040 ^	1.0
Hot Peppers	274	0			0.40 ^	1.0
Lettuce	744	0			0.006 ^	0.01
Mushrooms	186	0			0.006 ^	0.01
Onion	93	0			0.10 ^	0.01
Orange Juice	585	0			0.006 ^	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
Papaya	384	0			0.080 ^	0.01
Snap Peas (X-1)	372	3	0.8	0.004 - 0.034	0.002 ^	0.01
Spinach, Canned	198	0			0.080 ^	0.01
Spinach, Frozen	198	0			0.080 ^	0.01
Sweet Bell Peppers	741	27	3.6	0.026 - 0.32	0.025 ^	1.0
Tangerines	<u>717</u>	<u>0</u>			0.010 ^	0.01
TOTAL	7,865	40				
Chlorfenvinphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.004 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	186	0			0.004 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.003 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	3,758	0				
Chlorothalonil (fungicide)						
Cantaloupe	658	0			0.010 ^	5.0
Lettuce	744	0			0.020 ^	NT
Mushrooms	186	0			0.020 ^	1.0
Orange Juice	585	0			0.020 ^	NT
Papaya	383	0			0.18 ^	15
Tangerines	<u>696</u>	<u>0</u>			0.010 ^	NT
TOTAL	3,252	0				
Chlorpropham (herbicide, growth regulator)						
Baby Food - Green Beans	584	0			0.005 ^	NT
Baby Food - Pears	585	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 - 0.018	NT
Beets, Canned	756	0			0.005 - 0.060	NT
Cantaloupe	719	0			0.010 ^	NT
Cauliflower (V-1)	186	1	0.5	0.005 ^	0.003 ^	NT
Hot Peppers (V-4)	279	4	1.4	0.008 ^	0.005 ^	NT
Lettuce	744	0			0.010 - 0.050	NT
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.005 ^	NT
Orange Juice	552	0			0.010 - 0.050	NT
Plums	143	0			0.005 ^	NT
Snap Peas (V-3)	744	3	0.4	0.002 - 0.11	0.001 - 0.006	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.005 ^	NT
TOTAL	7,059	8				
Chlorpyrifos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.1
Baby Food - Pears	585	0			0.001 ^	0.1
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.1
Beets, Canned	756	0			0.003 - 0.005	0.1
Cabbage	742	0			0.027 ^	1.0
Cantaloupe	739	1	0.1	0.014 ^	0.010 ^	0.1
Cauliflower	186	0			0.003 ^	1.0
Cherry Tomatoes	722	7	1	0.005 - 0.047	0.003 ^	0.1
Hot Peppers	553	44	8	0.005 - 0.20	0.003 - 0.050	1.0
Lettuce	744	0			0.025 ^	1.0
Mushrooms	186	0			0.025 ^	0.1
Onion	186	0			0.006 - 0.025	0.5
Orange Juice	585	0			0.025 ^	1.0
Papaya	384	0			0.020 ^	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
Plums	143	1	0.7	0.010 ^	0.006 ^	0.05
Snap Peas	744	26	3.5	0.002 - 0.031	0.001 - 0.006	0.05
Spinach, Canned	198	0			0.020 ^	0.1
Spinach, Frozen	198	2	1	0.025 - 0.031	0.020 ^	0.1
Sweet Bell Peppers	741	49	6.6	0.011 - 1.0	0.011 ^	1.0
Tangerines	717	0			0.010 ^	1.0
Winter Squash	186	0			0.006 ^	0.1
TOTAL	10,464	130				
Chlorpyrifos oxygen analog (metabolite of Chlorpyrifos)						
Baby Food - Green Beans	584	0			0.006 ^	0.1
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.1
Beets, Canned	756	0			0.006 - 0.009	0.1
Cauliflower	186	0			0.001 ^	1.0
Hot Peppers	553	0			0.006 - 0.008	1.0
Lettuce	744	0			0.002 ^	1.0
Mushrooms	186	0			0.002 ^	0.1
Onion	186	0			0.005 - 0.006	0.5
Orange Juice	585	0			0.002 ^	1.0
Papaya	384	0			0.002 ^	0.1
Plums	143	0			0.006 ^	0.05
Snap Peas	465	0			0.001 - 0.006	0.05
Spinach, Canned	198	0			0.005 ^	0.1
Spinach, Frozen	198	0			0.005 ^	0.1
Sweet Bell Peppers	741	0			0.009 ^	1.0
Winter Squash	186	0			0.006 ^	0.1
TOTAL	6,680	0				
Clethodim (herbicide)						
Baby Food - Green Beans	584	0			0.024 ^	3.5
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.024 ^	1.0
Beets, Canned	373	0			0.024 ^	1
Cabbage	742	0			0.006 - 0.013	3.0
Cauliflower	186	0			0.002 ^	3.0
Hot Peppers	279	0			0.024 ^	1
Onion	171	0			0.024 - 0.20	0.20
Plums	143	0			0.024 ^	NT
Snap Peas	744	0			0.002 - 0.024	3.5
Winter Squash	186	0			0.024 ^	0.50
TOTAL	4,578	0				
Clethodim 5-OH sulfone (herbicide metabolite)						
Plums	143	0			0.012 ^	NT
TOTAL	143	0				
Clethodim sulfone (herbicide metabolite)						
Plums	143	0			0.003 ^	NT
Snap Peas	93	5	5.4	0.005 - 0.23	0.003 ^	3.5
TOTAL	236	5				
Clethodim sulfoxide (herbicide metabolite)						
Onion	93	0			0.003 ^	0.20
Plums	143	0			0.003 ^	NT
Snap Peas	93	5	5.4	0.005 - 0.30	0.003 ^	3.5
Winter Squash	186	0			0.003 ^	0.50
TOTAL	515	5				
Clofentezine (insecticide)						
Baby Food - Green Beans	584	0			0.012 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
Beets, Canned	373	0			0.012 ^	NT
Hot Peppers	279	0			0.012 ^	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
Onion	93	0			0.012 ^	NT
Plums	143	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Winter Squash	186	0			0.012 ^	NT
TOTAL	2,615	0				
Clomazone (herbicide)						
Baby Food - Green Beans	584	0			0.002 ^	0.05
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.009 ^	0.05
Beets, Canned	756	0			0.002 - 0.049	NT
Cantaloupe	739	0			0.010 ^	0.05
Cauliflower	186	0			0.008 ^	NT
Hot Peppers	553	0			0.002 - 0.016	0.05
Lettuce	744	0			0.005 ^	NT
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.005 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.002 - 0.003	0.05
Sweet Bell Peppers	741	1	0.1	0.006 ^	0.005 ^	0.05
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	0.1
TOTAL	8,127	1				
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)						
Baby Food - Green Beans	584	0			0.003 ^	0.02
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.3
Beets, Canned	756	0			0.003 - 0.035	0.8
Cabbage	742	0			0.006 - 0.013	4.5
Cantaloupe	739	0			0.010 ^	0.06
Cherry Tomatoes	738	118	16	0.003 - 0.069	0.002 ^	0.20
Hot Peppers	553	78	14.1	0.005 - 0.079	0.003 - 0.040	0.25
Lettuce	744	0			0.010 ^	3.0
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.003 - 0.090	0.45
Orange Juice	585	0			0.010 ^	NT
Papaya	384	0			0.040 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Spinach, Canned	198	2	1	0.043 - 0.044	0.040 ^	3.0
Spinach, Frozen	198	0			0.040 ^	3.0
Sweet Bell Peppers	741	20	2.7	0.036 - 0.092	0.035 ^	0.25
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	0.06
TOTAL	9,337	218				
Coumaphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.006 ^	NT
Baby Food - Sweet Potatoes	552	0			0.003 ^	NT
Beets, Canned	342	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.002 - 0.006	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	5,150	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
Coumaphos oxygen analog (metabolite of Coumaphos)						
Baby Food - Pears	585	0			0.008 ^	NT
Cauliflower	186	0			0.008 ^	NT
Snap Peas	372	0			0.008 ^	NT
TOTAL	1,143	0				
Crotoxyphos (insecticide, acaricide)						
Baby Food - Green Beans	584	0			0.003 - 0.010	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 - 0.020	NT
Hot Peppers	248	0			0.003 - 0.010	NT
Onion	186	0			0.003 - 0.10	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 - 0.010	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	2,677	0				
Crufomate (insecticide)						
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	93	0			0.003 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	515	0				
Cyazofamid (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.020	NT
Cherry Tomatoes	738	8	1.1	0.017 - 0.20	0.010 ^	0.40
Hot Peppers	553	0			0.006 - 0.16	0.40
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Sweet Bell Peppers	741	0			0.020 ^	0.40
Winter Squash	186	1	0.5	0.010 ^	0.006 ^	0.10
TOTAL	4,751	9				
Cycloate (herbicide)						
Spinach, Canned	198	0			0.003 ^	0.05
Spinach, Frozen	198	0			0.003 ^	0.05
TOTAL	396	0				
Cyfluthrin (insecticide)						
Baby Food - Green Beans	584	0			0.030 ^	0.05
Baby Food - Pears	585	0			0.041 ^	0.5
Baby Food - Sweet Potatoes	585	0			0.030 ^	0.01
Beets, Canned	756	0			0.030 - 0.11	0.05
Cabbage	742	0			0.15 ^	2.5
Cantaloupe	739	0			0.010 ^	0.1
Cauliflower	186	0			0.008 ^	2.5
Cherry Tomatoes	738	1	0.1	0.098 ^	0.059 - 0.15	0.20
Hot Peppers	553	7	1.3	0.050 ^	0.030 - 0.20	0.5
Lettuce	744	9	1.2	0.004 - 0.34	0.002 ^	3.0
Mushrooms	186	0			0.002 ^	0.05
Onion	186	0			0.030 - 0.20	0.05
Orange Juice	585	0			0.002 ^	0.2
Papaya	384	0			0.15 ^	0.05
Plums	143	0			0.030 ^	0.3
Snap Peas	744	4	0.5	0.012 - 0.19	0.008 - 0.041	0.25
Spinach, Canned	198	8	4	0.080 - 0.42	0.060 ^	6.0
Spinach, Frozen	198	34	17.2	0.070 - 2.3	0.060 ^	6.0
Sweet Bell Peppers	741	9	1.2	0.028 - 0.078	0.022 ^	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
Tangerines	717	0			0.010 ^	0.2
Winter Squash	<u>186</u>	<u>3</u>	1.6	0.050 ^	0.030 ^	0.1
TOTAL	10,480	75				
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide)						
Baby Food - Pears	585	1	0.2	0.010 ^	0.006 ^	0.30
Beets, Canned	383	0			0.010 ^	0.01
Cantaloupe	739	0			0.015 ^	0.05
Cauliflower	186	0			0.010 ^	0.4
Hot Peppers	259	0			0.20 ^	0.20
Lettuce	744	107	14.4	0.001 - 0.56	0.001 ^	2.0
Mushrooms	186	0			0.001 ^	0.01
Onion	186	0			0.012 - 0.13	0.1
Orange Juice	585	0			0.001 ^	0.01
Papaya	384	0			0.060 ^	0.01
Plums	143	0			0.012 ^	0.50
Snap Peas	465	34	7.3	0.005 - 0.068	0.003 - 0.012	0.20
Spinach, Canned	198	0			0.020 ^	0.01
Spinach, Frozen (X-2)	198	2	1	0.026 - 0.092	0.020 ^	0.01
Sweet Bell Peppers	741	33	4.5	0.010 - 0.064	0.010 ^	0.20
Tangerines	717	0			0.015 ^	0.01
Winter Squash	<u>186</u>	<u>0</u>			0.012 ^	0.05
TOTAL	6,885	177				
Cyhalothrin, Lambda (includes gamma isomer)						
Baby Food - Green Beans	584	1	0.2	0.010 ^	0.006 ^	0.20
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.02
Beets, Canned	373	0			0.006 ^	0.01
Cabbage	742	0			0.034 ^	NT
Cherry Tomatoes	738	5	0.7	0.027 ^	0.016 - 0.10	0.1
Hot Peppers	279	7	2.5	0.010 - 0.035	0.006 ^	0.20
Snap Peas	<u>248</u>	<u>15</u>	6	0.010 - 0.048	0.006 - 0.012	0.20
TOTAL	3,549	28				
Cyhalothrin, Lambda epimer R157836 (isomer of Cyhalothrin)						
Baby Food - Green Beans	584	1	0.2	0.010 ^	0.006 ^	0.20
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.02
Beets, Canned	373	0			0.006 ^	0.01
Hot Peppers	279	3	1.1	0.010 ^	0.006 ^	0.20
Snap Peas	<u>279</u>	<u>7</u>	2.5	0.010 ^	0.006 - 0.020	0.20
TOTAL	2,100	11				
Cymoxanil (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.020	NT
Cherry Tomatoes	738	0			0.014 ^	0.2
Hot Peppers	553	0			0.006 - 0.16	0.2
Lettuce	744	8	1.1	0.003 - 0.14	0.002 ^	19
Mushrooms	186	0			0.002 ^	NT
Onion	186	0			0.006 - 0.050	0.05
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Sweet Bell Peppers	741	0			0.020 ^	0.2
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	0.05
TOTAL	6,359	8				
Cypermethrin (insecticide)						
Baby Food - Green Beans	584	1	0.2	0.050 ^	0.030 ^	0.5
Baby Food - Pears	585	0			0.043 ^	2
Baby Food - Sweet Potatoes	585	0			0.030 ^	0.1
Beets, Canned	756	0			0.030 - 0.10	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	742	0			0.12 ^	2.00
Cantaloupe	739	0			0.020 ^	0.2
Cauliflower	186	0			0.022 ^	2.00
Cherry Tomatoes	738	6	0.8	0.10 - 0.21	0.060 - 0.17	0.2
Hot Peppers	553	7	1.3	0.050 - 0.13	0.030 - 0.20	0.2
Lettuce	744	61	8.2	0.002 - 0.45	0.002 ^	10.00
Mushrooms	186	0			0.002 ^	0.05
Onion	186	0			0.024 - 0.20	0.10
Orange Juice	585	0			0.002 ^	0.35
Papaya	384	0			0.15 ^	0.05
Plums	143	0			0.024 ^	1
Snap Peas (X-2)	744	33	4.4	0.038 - 0.27	0.023 - 0.14	0.1
Spinach, Canned	198	140	70.7	0.13 - 4.8	0.10 ^	10.00
Spinach, Frozen	198	48	24.2	0.14 - 3.0	0.10 ^	10.00
Sweet Bell Peppers	741	9	1.2	0.056 - 0.16	0.053 ^	0.2
Tangerines	717	0			0.020 ^	0.35
Winter Squash	186	0			0.024 ^	0.2
TOTAL	10,480	305				
Cyphenothrin (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.015	NT
Cabbage	742	0			0.009 - 0.020	NT
Cherry Tomatoes	738	0			0.059 - 0.21	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce	744	0			0.006 ^	NT
Mushrooms	186	0			0.006 ^	NT
Onion	186	0			0.006 - 0.25	NT
Orange Juice	585	0			0.006 ^	NT
Papaya	384	0			0.060 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Spinach, Canned	198	0			0.060 ^	NT
Spinach, Frozen	198	0			0.060 ^	NT
Sweet Bell Peppers	741	0			0.040 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	7,607	0				
Cyprodinil (fungicide)						
Baby Food - Green Beans	584	0			0.002 ^	0.6
Baby Food - Sweet Potatoes	585	0			0.009 ^	NT
Beets, Canned	756	0			0.002 - 0.020	0.75
Cabbage	742	0			0.019 ^	1.0
Cantaloupe	739	0			0.010 ^	0.70
Cherry Tomatoes	738	7	0.9	0.007 - 0.10	0.004 - 0.027	0.45
Hot Peppers	279	0			0.002 ^	NT
Mushrooms	186	0			0.005 ^	NT
Onion	186	1	0.5	0.005 ^	0.003 - 0.055	0.60
Orange Juice	585	0			0.005 ^	NT
Papaya	384	1	0.3	0.072 ^	0.050 ^	1.2
Plums	143	6	4.2	0.005 - 0.043	0.003 ^	2.0
Snap Peas	372	0			0.002 - 0.003	NT
Sweet Bell Peppers (V-1)	741	1	0.1	0.012 ^	0.004 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	0.70
TOTAL	7,923	16				
Cyromazine (insect growth regulator)						
Baby Food - Pears	519	0			0.008 ^	NT
Cherry Tomatoes	577	1	0.2	0.030 ^	0.003 ^	0.5
Hot Peppers	274	1	0.4	0.080 ^	0.040 ^	1.0
Onion	186	0			0.003 - 0.080	0.2

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	143	0			0.003 ^	NT
Snap Peas (V-10)	186	10	5.4	0.024 - 0.67	0.002 - 0.003	NT
Spinach, Canned	198	0			0.16 ^	7.0
Spinach, Frozen	198	0			0.16 ^	7.0
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	1.0
TOTAL	2,467	12				
DCPA (herbicide)						
Baby Food - Green Beans	584	0			0.002 ^	2.0
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	2.0
Beets, Canned	756	0			0.002 - 0.003	NT
Cabbage	742	0			0.018 ^	5.0
Cantaloupe	739	0			0.010 ^	1.0
Cauliflower	186	5	2.7	0.002 ^	0.001 ^	5.0
Cherry Tomatoes	738	0			0.003 - 0.014	1.0
Hot Peppers	553	2	0.4	0.004 ^	0.002 - 0.080	2.0
Lettuce	744	106	14.2	0.001 - 0.033	0.001 ^	2.0
Mushrooms	186	0			0.001 ^	NT
Onion	186	0			0.002 - 0.025	1.0
Orange Juice	585	0			0.001 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas (V-16)	744	16	2.2	0.002 - 0.007	0.001 - 0.002	NT
Sweet Bell Peppers	741	0			0.005 ^	2.0
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>1</u>	0.5	0.080 ^	0.002 ^	1.0
TOTAL	9,700	130				
DEF - Tribufos (herbicide, plant growth regulator)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	372	0			0.002 - 0.003	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	2,615	0				
Deltamethrin (includes parent Tralomethrin) (insecticide)						
Baby Food - Green Beans	584	0			0.015 ^	0.05
Baby Food - Pears	585	0			0.080 ^	0.2
Baby Food - Sweet Potatoes	585	0			0.015 ^	0.05
Beets, Canned	756	0			0.015 - 0.064	0.2
Cantaloupe	593	0			0.015 ^	0.2
Cauliflower	186	49	26.3	0.020 ^	0.012 ^	0.05
Cherry Tomatoes	738	11	1.5	0.025 - 0.12	0.015 - 0.21	0.2
Hot Peppers	553	1	0.2	0.025 ^	0.015 - 0.20	0.3
Lettuce	744	0			0.009 ^	0.05
Mushrooms	186	0			0.009 ^	0.05
Onion	186	0			0.012 - 0.075	0.1
Orange Juice	585	0			0.009 ^	0.05
Papaya	384	0			0.080 ^	0.05
Plums	143	0			0.012 ^	0.05
Snap Peas (X-2)	744	11	1.5	0.020 - 0.19	0.012 - 0.080	0.05
Spinach, Canned	198	0			0.040 ^	0.05
Spinach, Frozen	198	0			0.040 ^	0.05
Sweet Bell Peppers	741	1	0.1	0.10 ^	0.050 ^	0.3
Tangerines	533	0			0.015 ^	0.05
Winter Squash	<u>186</u>	<u>0</u>			0.012 ^	0.2
TOTAL	9,408	73				

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
Demeton-O (metabolite of the insecticide Demeton)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.003 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	2,615	0				
Demeton-S (metabolite of Demeton)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 - 0.020	NT
Snap Peas	372	0			0.003 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 - 0.020	NT
TOTAL	2,615	0				
Demeton-S sulfone (metabolite of Demeton-S)						
Lettuce	744	0			0.004 ^	NT
Mushrooms	186	0			0.004 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.004 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	93	0			0.002 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	2,030	0				
Desmedipham (herbicide)						
Beets, Canned	277	0			0.010 ^	0.05
Spinach, Canned	198	0			0.005 ^	6.0
Spinach, Frozen	198	0			0.005 ^	6.0
Sweet Bell Peppers	<u>554</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,227	0				
Dialifos (insecticide)						
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	93	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	515	0				
Diazinon (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	0.50
Baby Food - Pears	585	0			0.002 ^	0.50
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.10
Beets, Canned	756	0			0.002 - 0.010	0.75
Cabbage	742	0			0.021 ^	0.70
Cantaloupe	739	2	0.3	0.002 ^	0.002 ^	0.75
Cauliflower	186	0			0.001 ^	0.70
Cherry Tomatoes	738	3	0.4	0.003 - 0.007	0.002 ^	0.75
Hot Peppers	553	4	0.7	0.006 - 0.032	0.001 - 0.002	0.5
Lettuce	744	1	0.1	0.006 ^	0.005 ^	0.70
Mushrooms	186	3	1.6	0.012 - 0.035	0.005 ^	0.75
Onion	186	0			0.002 - 0.045	0.75
Orange Juice	585	0			0.005 ^	NT
Plums	143	0			0.002 ^	0.20
Snap Peas	744	2	0.3	0.003 ^	0.001 - 0.002	0.5
Spinach, Canned	198	0			0.001 ^	0.70

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	198	0			0.001 ^	0.70
Sweet Bell Peppers	741	0			0.020 ^	0.5
Tangerines	717	0			0.002 ^	NT
Winter Squash	186	0			0.002 ^	0.75
TOTAL	10,096	15				
Diazinon oxygen analog (metabolite of Diazinon)						
Baby Food - Green Beans	584	0			0.003 ^	0.50
Baby Food - Pears	585	0			0.003 ^	0.50
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.10
Beets, Canned	756	0			0.003 - 0.015	0.75
Cabbage	742	0			0.042 ^	0.70
Cantaloupe	739	0			0.001 ^	0.75
Cauliflower	186	0			0.001 ^	0.70
Hot Peppers	553	0			0.003 - 0.008	0.5
Lettuce	682	0			0.005 ^	0.70
Mushrooms	186	0			0.005 ^	0.75
Onion	186	0			0.003 - 0.010	0.75
Orange Juice	519	0			0.005 ^	NT
Plums	143	0			0.003 ^	0.20
Snap Peas	744	0			0.001 - 0.003	0.5
Spinach, Canned	198	0			0.001 ^	0.70
Spinach, Frozen	198	0			0.001 ^	0.70
Tangerines	717	0			0.001 ^	NT
Winter Squash	186	0			0.003 ^	0.75
TOTAL	8,489	0				
Dichlobenil (herbicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.019 ^	0.5
Baby Food - Sweet Potatoes	585	0			0.005 ^	NT
Beets, Canned	280	0			0.003 - 0.017	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	172	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	0.15
Snap Peas	744	0			0.002 - 0.019	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	5,107	0				
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)						
Baby Food - Green Beans	584	0			0.003 ^	0.5
Baby Food - Pears	585	0			0.010 ^	0.5
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.5
Beets, Canned	756	0			0.003 - 0.020	0.5
Cabbage	742	0			0.092 ^	1
Cantaloupe	739	0			0.010 ^	0.5
Cauliflower	186	0			0.020 ^	0.5
Cherry Tomatoes	738	0			0.002 ^	0.05
Hot Peppers	553	0			0.003 - 0.080	0.5
Lettuce	744	0			0.020 ^	1
Mushrooms	186	0			0.020 ^	0.5
Onion	186	0			0.012 - 0.060	0.5
Orange Juice	585	0			0.020 ^	0.5
Papaya	384	0			0.032 ^	0.5
Plums	143	0			0.012 ^	0.5
Snap Peas	744	0			0.003 - 0.012	0.5
Spinach, Canned	198	0			0.032 ^	3
Spinach, Frozen	198	0			0.032 ^	3
Sweet Bell Peppers	741	0			0.020 ^	0.5
Winter Squash	186	0			0.012 ^	0.5
TOTAL	9,763	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
Dicloran (fungicide)						
Baby Food - Green Beans	584	0			0.005 ^	20
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	8	1.4	0.010 ^	0.006 ^	10
Beets, Canned	756	0			0.005 - 0.020	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	170	0			0.008 ^	NT
Cherry Tomatoes	738	3	0.4	0.011 - 0.53	0.007 - 0.089	5
Hot Peppers	279	0			0.005 ^	NT
Lettuce	744	1	0.1	0.006 ^	0.005 ^	10
Mushrooms	186	0			0.005 ^	NT
Onion	186	1	0.5	0.010 ^	0.006 - 0.10	10
Orange Juice	585	0			0.005 ^	NT
Plums	143	0			0.006 ^	15
Snap Peas (V-1)	744	1	0.1	0.046 ^	0.002 - 0.006	NT
Sweet Bell Peppers	741	0			0.015 ^	NT
Tangerines	700	0			0.010 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	8,651	14				
Dicofol o,p' (isomer of insecticide Dicofol)						
Baby Food - Pears	585	0			0.003 ^	10.0
Beets, Canned	383	0			0.015 ^	NT
Cauliflower	186	0			0.002 ^	NT
Snap Peas	372	0			0.002 - 0.003	NT
Sweet Bell Peppers	741	8	1.1	0.001 - 0.033	0.001 ^	2.0
TOTAL	2,267	8				
Dicofol p,p' (isomer of Dicofol)						
Baby Food - Green Beans	584	0			0.006 ^	3.0
Baby Food - Pears	585	7	1.2	0.005 - 0.023	0.003 ^	10.0
Baby Food - Sweet Potatoes	585	0			0.012 - 0.021	NT
Beets, Canned	756	0			0.006 - 0.021	NT
Cauliflower	186	0			0.001 - 0.003	NT
Cherry Tomatoes	738	6	0.8	0.007 - 0.17	0.004 - 0.10	2.0
Hot Peppers	553	2	0.4	0.010 ^	0.006 - 0.40	2.0
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.002 ^	6.0
Plums	143	0			0.006 ^	5.0
Snap Peas	744	0			0.001 - 0.006	NT
Sweet Bell Peppers	741	12	1.6	0.003 - 0.11	0.002 ^	2.0
Winter Squash	186	0			0.006 ^	2.0
TOTAL	7,409	27				
Dicrotophos (insecticide)						
Baby Food - Pears	585	0			0.002 ^	NT
Cauliflower	186	0			0.002 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	465	0			0.002 ^	NT
Winter Squash	186	0			0.002 ^	NT
TOTAL	1,658	0				
Difenoconazole (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	1	0.2	0.002 ^	0.001 - 0.003	1.0
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.01
Beets, Canned	756	0			0.003 - 0.005	NT
Cantaloupe	739	0			0.005 ^	0.70
Cauliflower	186	1	0.5	0.006 ^	0.003 ^	1.9
Cherry Tomatoes	736	58	7.9	0.003 - 0.15	0.002 ^	0.60

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
Hot Peppers	553	16	2.9	0.001 - 0.064	0.001 - 0.003	0.60
Onion	186	0			0.003 - 0.005	0.20
Papaya	384	28	7.3	0.002 - 0.016	0.002 ^	0.30
Plums	143	0			0.003 ^	2.5
Snap Peas (V-83)	744	83	11.2	0.002 - 0.21	0.001 - 0.003	NT
Sweet Bell Peppers	741	47	6.3	0.005 - 0.46	0.005 ^	0.60
Tangerines	717	0			0.005 ^	0.60
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.70
TOTAL	7,825	234				
Diflubenzuron (insecticide)						
Baby Food - Green Beans	584	0			0.012 ^	NT
Baby Food - Pears	585	26	4.4	0.011 - 0.078	0.007 - 0.045	0.50
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
Beets, Canned	756	0			0.012 - 0.15	NT
Cauliflower	92	0			0.005 ^	NT
Hot Peppers	553	8	1.4	0.020 - 0.087	0.012 - 0.080	1.0
Lettuce	713	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	0.2
Onion	93	0			0.012 ^	NT
Orange Juice	585	0			0.003 ^	0.5
Plums	143	0			0.012 ^	0.07
Snap Peas	728	0			0.001 - 0.012	NT
Sweet Bell Peppers	741	0			0.15 ^	1.0
Winter Squash	<u>186</u>	<u>0</u>			0.012 ^	NT
TOTAL	6,530	34				
Dimethenamid (herbicide)						
Baby Food - Pears	585	0			0.001 ^	NT
Beets, Canned	383	0			0.015 ^	0.01
Cauliflower	186	0			0.001 ^	NT
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.002 - 0.050	0.01
Orange Juice	552	0			0.003 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	465	0			0.001 - 0.002	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.01
TOTAL	3,616	0				
Dimethoate (insecticide) (parent of Omethoate)						
Baby Food - Green Beans	584	0			0.002 ^	2.0
Baby Food - Pears	585	0			0.002 ^	2.0
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	756	0			0.002 - 0.005	NT
Cantaloupe	739	2	0.3	0.010 - 0.014	0.010 ^	1.0
Cauliflower	186	4	2.2	0.003 - 0.018	0.002 ^	2.0
Cherry Tomatoes	738	2	0.3	0.003 ^	0.002 ^	2.0
Hot Peppers	553	50	9	0.003 - 0.36	0.002 - 0.040	2.0
Lettuce	744	1	0.1	0.007 ^	0.005 ^	2.0
Mushrooms (V-1)	186	1	0.5	0.009 ^	0.005 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.005 ^	2.0
Plums	143	0			0.002 ^	NT
Snap Peas	744	229	30.8	0.003 - 0.60	0.002 ^	2.0
Sweet Bell Peppers	741	25	3.4	0.005 - 0.46	0.005 ^	2.0
Tangerines	717	2	0.3	0.022 - 0.11	0.010 ^	2.0
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	8,865	316				
Dimethomorph (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	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
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	0.5
Cauliflower	186	0			0.001 ^	2.0
Cherry Tomatoes	738	1	0.1	0.15 ^	0.089 - 0.21	1.5
Hot Peppers	553	1	0.2	0.005 ^	0.003 - 0.004	1.5
Lettuce	744	111	14.9	0.003 - 2.4	0.003 ^	10
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.003 - 0.010	2.0
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.001 - 0.003	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	0.5
TOTAL	7,834	113				
2,4-dimethylphenyl formamide - 2,4-DMPF (insecticide) (breakdown product of Amitraz)						
Cantaloupe	739	0			0.010 ^	NT
Tangerines	717	0			0.010 ^	NT
TOTAL	1,456	0				
Dinotefuran (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.010	NT
Cabbage	675	0			0.015 - 0.017	1.4
Cantaloupe	739	88	11.9	0.010 - 0.13	0.010 ^	0.5
Cauliflower	186	1	0.5	0.010 ^	0.006 ^	1.4
Cherry Tomatoes	480	15	3.1	0.023 - 0.066	0.014 ^	0.7
Hot Peppers	553	7	1.3	0.010 - 0.062	0.006 - 0.16	0.7
Lettuce	744	0			0.003 ^	5.0
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.006 ^	NT
Spinach, Canned	198	0			0.032 ^	5.0
Spinach, Frozen	198	0			0.032 ^	5.0
Sweet Bell Peppers (X-1)	741	42	5.7	0.010 - 0.81	0.010 ^	0.7
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.006 ^	0.5
TOTAL	9,678	153				
Dioxathion (insecticide)						
Onion	93	0			0.012 ^	NT
Plums	143	0			0.012 ^	NT
Snap Peas	93	0			0.012 ^	NT
Winter Squash	186	0			0.012 ^	NT
TOTAL	515	0				
Diphenamid (herbicide)						
Baby Food - Pears	585	0			0.010 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Snap Peas	372	0			0.002 - 0.010	NT
Tangerines	717	0			0.010 ^	NT
TOTAL	2,599	0				
Diphenylamine - DPA (plant growth regulator)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	274	46.8	0.005 - 0.081	0.003 ^	5.0
Baby Food - Sweet Potatoes	585	0			0.012 ^	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
Beets, Canned	756	0			0.003 - 0.10	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.010 ^	NT
Hot Peppers (V-1)	279	1	0.4	0.005 ^	0.003 ^	NT
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 ^	NT
Sweet Bell Peppers	741	0			0.020 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	7,853	275				
Disulfoton (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.75
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cabbage	742	0			0.046 ^	0.75
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	0.75
Hot Peppers	553	0			0.003 - 0.10	0.1
Lettuce	744	0			0.030 ^	2
Mushrooms	186	0			0.030 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.030 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.002 - 0.006	NT
Spinach, Canned	198	0			0.040 ^	0.75
Spinach, Frozen	198	0			0.040 ^	0.75
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	8,141	0				
Disulfoton oxon (metabolite of Disulfoton)						
Cauliflower	186	0			0.002 ^	0.75
Hot Peppers	274	0			0.20 ^	0.1
Lettuce	744	0			0.001 ^	2
Mushrooms	186	0			0.001 ^	NT
Orange Juice	552	0			0.001 ^	NT
Snap Peas	93	0			0.002 ^	NT
Spinach, Canned	176	0			0.20 ^	NT
Spinach, Frozen	198	0			0.20 ^	NT
TOTAL	2,409	0				
Disulfoton sulfone (metabolite of Disulfoton)						
Baby Food - Green Beans	584	0			0.003 ^	0.75
Baby Food - Pears	585	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cabbage	742	0			0.006 ^	0.75
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	0.75
Hot Peppers	553	0			0.003 - 0.080	0.1
Lettuce	744	0			0.020 ^	2
Mushrooms	186	0			0.020 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.020 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.002 - 0.006	NT
Spinach, Canned	198	0			0.020 ^	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
Spinach, Frozen	198	0			0.020 ^	0.75
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.002 ^	NT
TOTAL	8,141	0				
Disulfoton sulfone oxygen analog (metabolite of Disulfoton)						
Hot Peppers	274	0			0.040 ^	0.1
Snap Peas	93	0			0.003 ^	NT
Spinach, Canned	198	0			0.008 ^	0.75
Spinach, Frozen	198	0			0.008 ^	0.75
TOTAL	763	0				
Disulfoton sulfoxide (metabolite of Disulfoton)						
Cabbage	742	1	0.1	0.005 ^	0.003 ^	0.75
Cauliflower	186	0			0.002 ^	0.75
Hot Peppers	274	0			0.002 ^	0.1
Lettuce	744	0			0.005 ^	2
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.005 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	186	0			0.002 ^	NT
Spinach, Canned	198	0			0.003 ^	0.75
Spinach, Frozen	176	0			0.003 ^	0.75
Winter Squash	186	0			0.002 ^	NT
TOTAL	3,699	1				
Disulfoton sulfoxide oxygen analog (metabolite of Disulfoton)						
Cabbage	742	2	0.3	0.005 - 0.014	0.002 - 0.003	0.75
Cauliflower	186	0			0.003 ^	0.75
Hot Peppers	274	0			0.008 ^	0.1
Snap Peas	93	0			0.001 ^	NT
Spinach, Canned	198	0			0.008 ^	0.75
Spinach, Frozen	198	0			0.008 ^	0.75
TOTAL	1,691	2				
Diuron (herbicide)						
Baby Food - Green Beans	584	0			0.012 ^	NT
Baby Food - Pears	585	0			0.008 ^	1
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
Beets, Canned	373	0			0.012 ^	NT
Cauliflower	186	0			0.008 - 0.025	NT
Hot Peppers	279	0			0.012 ^	NT
Lettuce	713	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.012 ^	NT
Orange Juice	585	0			0.003 ^	0.05
Papaya	384	0			0.010 ^	0.5
Plums	143	0			0.012 ^	NT
Snap Peas	744	0			0.008 - 0.012	0.1
Winter Squash	186	0			0.012 ^	NT
TOTAL	5,626	0				
Dodine (fungicide)						
Onion	93	0			0.012 ^	NT
Plums	143	0			0.012 ^	NT
Snap Peas	93	0			0.012 ^	NT
Winter Squash	186	0			0.012 ^	NT
TOTAL	515	0				
Emamectin (insecticide)						
Baby Food - Green Beans	584	0			0.018 ^	NT
Baby Food - Sweet Potatoes	585	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
Beets, Canned	373	0			0.018 ^	NT
Hot Peppers	279	0			0.018 ^	0.02
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 - 0.018	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	2,615	0				
Emamectin benzoate (insecticide)						
Baby Food - Pears	585	0			0.001 ^	0.025
Cauliflower	186	0			0.001 ^	0.050
Snap Peas	<u>372</u>	<u>0</u>			0.001 ^	NT
TOTAL	1,143	0				
Endosulfan I (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	2.0
Baby Food - Pears	585	0			0.006 ^	2.0
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.15
Beets, Canned	756	0			0.003 - 0.035	NT
Cabbage	742	0			0.082 ^	4.0
Cantaloupe	739	0			0.010 ^	1.0
Cauliflower	186	0			0.020 ^	2.0
Cherry Tomatoes	738	36	4.9	0.006 - 0.15	0.004 - 0.089	1.0
Hot Peppers	553	16	2.9	0.010 - 0.025	0.006 - 0.40	2.0
Lettuce	744	22	3	0.002 - 0.024	0.002 ^	11.0
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.003 ^	2.0
Snap Peas	744	6	0.8	0.010 - 0.024	0.003 - 0.006	2.0
Spinach, Canned	198	0			0.060 ^	2.0
Spinach, Frozen	198	0			0.060 ^	2.0
Sweet Bell Peppers	741	44	5.9	0.012 - 0.18	0.012 ^	2.0
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>1</u>	0.5	0.010 ^	0.006 ^	1.0
TOTAL	10,003	125				
Endosulfan II (isomer of Endosulfan)						
Baby Food - Green Beans	584	0			0.006 ^	2.0
Baby Food - Pears	585	0			0.006 ^	2.0
Baby Food - Sweet Potatoes	585	0			0.004 ^	0.15
Beets, Canned	756	0			0.004 - 0.041	NT
Cabbage	742	0			0.073 ^	4.0
Cantaloupe	739	0			0.010 ^	1.0
Cauliflower	186	0			0.004 ^	2.0
Cherry Tomatoes	738	35	4.7	0.016 - 0.18	0.010 - 0.089	1.0
Hot Peppers	553	34	6.1	0.010 - 0.065	0.006 - 0.10	2.0
Lettuce	744	21	2.8	0.001 - 0.027	0.001 ^	11.0
Mushrooms	186	0			0.001 ^	NT
Onion	93	0			0.009 ^	NT
Orange Juice	585	0			0.001 ^	NT
Plums	143	0			0.005 ^	2.0
Snap Peas	729	16	2.2	0.002 - 0.049	0.001 - 0.006	2.0
Spinach, Canned	198	0			0.030 ^	2.0
Spinach, Frozen	198	0			0.030 ^	2.0
Sweet Bell Peppers	741	47	6.3	0.020 - 0.20	0.020 ^	2.0
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.009 ^	1.0
TOTAL	9,988	153				
Endosulfan sulfate (metabolite of Endosulfan)						
Baby Food - Green Beans	584	0			0.003 ^	2.0
Baby Food - Pears	585	0			0.020 ^	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
Baby Food - Sweet Potatoes	585	0			0.004 ^	0.15
Beets, Canned	756	0			0.003 - 0.020	NT
Cabbage	742	0			0.035 ^	4.0
Cantaloupe	739	80	10.8	0.010 - 0.068	0.010 ^	1.0
Cauliflower	186	0			0.012 ^	2.0
Cherry Tomatoes	738	55	7.5	0.007 - 0.073	0.004 - 0.044	1.0
Hot Peppers	538	57	10.6	0.005 - 0.075	0.003 - 0.40	2.0
Lettuce	744	25	3.4	0.003 - 0.033	0.003 ^	11.0
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.005 ^	2.0
Snap Peas	744	37	5	0.005 - 0.33	0.003 - 0.020	2.0
Spinach, Canned	198	0			0.060 ^	2.0
Spinach, Frozen	198	1	0.5	0.16 ^	0.060 ^	2.0
Sweet Bell Peppers	741	82	11.1	0.006 - 0.18	0.006 ^	2.0
Tangerines	697	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>37</u>	19.9	0.005 - 0.069	0.003 ^	1.0
TOTAL	9,968	374				
EPTC (herbicide)						
Baby Food - Pears	585	0			0.064 ^	NT
Beets, Canned	383	0			0.035 ^	0.1
Cauliflower	172	0			0.020 ^	NT
Cherry Tomatoes	738	0			0.002 ^	0.08
Hot Peppers	274	0			0.008 ^	0.1
Lettuce	713	0			0.010 ^	0.1
Mushrooms	186	0			0.010 ^	NT
Orange Juice	552	0			0.010 - 0.020	0.1
Snap Peas	372	0			0.006 - 0.064	0.08
Spinach, Canned	198	0			0.016 ^	0.1
Spinach, Frozen	198	0			0.016 ^	0.1
Sweet Bell Peppers	<u>741</u>	<u>0</u>			0.035 ^	0.1
TOTAL	5,112	0				
Esfenvalerate+Fenvalerate Total (insecticide)						
Baby Food - Pears	585	2	0.3	0.014 ^	0.009 ^	1.0
Cantaloupe	739	0			0.010 ^	1.0
Cauliflower	186	0			0.002 ^	0.5
Hot Peppers	274	0			0.20 ^	1.0
Lettuce	744	1	0.1	0.013 ^	0.002 ^	5.0
Mushrooms	186	0			0.002 ^	0.05
Onion	186	0			0.008 - 0.13	0.05
Orange Juice	585	0			0.002 ^	0.05
Papaya	384	0			0.10 ^	0.05
Plums	143	0			0.015 ^	10.0
Snap Peas	465	8	1.7	0.004 - 0.062	0.002 - 0.058	1
Spinach, Canned	198	0			0.030 ^	0.05
Spinach, Frozen	198	0			0.030 ^	0.05
Tangerines	717	0			0.010 ^	0.05
Winter Squash	<u>186</u>	<u>1</u>	0.5	0.012 ^	0.008 ^	1.0
TOTAL	5,776	12				
Esfenvalerate (isomer of Fenvalerate)						
Baby Food - Sweet Potatoes	585	0			0.015 ^	0.05
Beets, Canned	663	0			0.015 - 0.035	0.05
Cabbage	742	0			0.085 ^	3.0
Cherry Tomatoes	738	3	0.4	0.10 - 0.17	0.061 - 0.10	0.5
Sweet Bell Peppers	<u>741</u>	<u>5</u>	0.7	0.010 - 0.043	0.010 ^	0.5
TOTAL	3,469	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
Ethalfuralin (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	0.05
Baby Food - Pears	549	0			0.017 ^	NT
Baby Food - Sweet Potatoes	585	0			0.008 ^	NT
Beets, Canned	373	0			0.006 - 0.008	NT
Cauliflower	186	0			0.008 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce	744	0			0.001 ^	NT
Mushrooms	186	0			0.001 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.001 ^	NT
Plums	143	0			0.006 - 0.020	NT
Snap Peas	729	0			0.002 - 0.017	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	0.05
TOTAL	5,222	0				
Ethiofencarb (insecticide)						
Baby Food - Pears	585	0			0.015 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.008 ^	NT
Snap Peas	372	0			0.002 - 0.015	NT
Tangerines	717	0			0.010 ^	NT
TOTAL	2,599	0				
Ethion (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.012	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.001 - 0.003	NT
Sweet Bell Peppers	741	0			0.003 ^	NT
Tangerines	717	0			0.010 ^	5.0
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	6,338	0				
Ethion mono oxon (metabolite of Ethion)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.002 - 0.003	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	3,758	0				
Ethofumesate (herbicide)						
Beets, Canned	383	0			0.009 ^	0.5
Onion	186	0			0.002 - 0.025	0.25
Plums	143	0			0.002 ^	NT
Snap Peas	93	0			0.002 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	991	0				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Ethoprop (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	0.02
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.02
Beets, Canned	373	0			0.002 ^	NT
Cabbage	742	0			0.044 ^	0.02
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.002 ^	NT
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.001 - 0.002	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.002 ^	NT
TOTAL	7,471	0				
Ettoxazole (acaricide)						
Baby Food - Pears	585	0			0.001 ^	0.20
Cauliflower	186	0			0.001 ^	NT
Cherry Tomatoes	738	0			0.001 ^	0.20
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	0.15
Snap Peas (V-1)	465	1	0.2	0.002 ^	0.001 - 0.002	NT
Winter Squash	186	0			0.002 ^	0.02
TOTAL	2,396	1				
Etridiazole (fungicide)						
Beets, Canned	383	0			0.015 ^	NT
Cantaloupe	698	0			0.010 ^	NT
Sweet Bell Peppers	741	0			0.010 ^	NT
Tangerines	717	0			0.010 ^	NT
TOTAL	2,539	0				
Famoxadone (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.033	NT
Cherry Tomatoes	738	24	3.3	0.068 - 0.20	0.041 ^	1.0
Hot Peppers	553	8	1.4	0.005 - 0.35	0.003 - 0.16	4.0
Lettuce	744	16	2.2	0.029 - 1.8	0.025 ^	25
Mushrooms	186	0			0.025 ^	NT
Onion	186	0			0.003 - 0.10	0.45
Orange Juice	585	0			0.025 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Spinach, Canned	198	2	1	0.090 - 0.22	0.060 ^	50
Spinach, Frozen	198	4	2	0.50 - 1.9	0.060 ^	50
Sweet Bell Peppers	741	27	3.6	0.039 - 0.53	0.033 ^	4.0
Winter Squash	186	3	1.6	0.005 ^	0.003 ^	0.30
TOTAL	6,755	84				
Fenamidone (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	519	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.02
Beets, Canned	756	0			0.003 - 0.010	0.15
Cabbage	742	0			0.019 ^	5.0
Cantaloupe	739	0			0.010 ^	0.15
Cauliflower	186	0			0.008 ^	5.0
Cherry Tomatoes	738	0			0.020 ^	1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Hot Peppers	553	2	0.4	0.006 - 0.039	0.001 - 0.003	3.5
Lettuce	744	79	10.6	0.005 - 4.0	0.005 ^	60
Mushrooms	186	0			0.005 ^	NT
Onion	186	0			0.003 - 0.050	0.20
Orange Juice	585	0			0.005 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	713	0			0.002 - 0.003	NT
Spinach, Canned	198	13	6.6	0.005 - 0.13	0.003 ^	60
Spinach, Frozen	198	25	12.6	0.004 - 1.7	0.003 ^	60
Sweet Bell Peppers	741	0			0.020 ^	1.0
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.15
TOTAL	9,282	119				
Fenamiphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.006	NT
Cabbage	742	0			0.003 ^	NT
Cantaloupe	739	0			0.005 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	553	0			0.001 - 0.003	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.001 - 0.003	NT
Sweet Bell Peppers	741	0			0.006 ^	NT
Tangerines	717	0			0.005 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	7,354	0				
Fenamiphos sulfone (metabolite of Fenamiphos)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.004 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.004	NT
Cabbage	742	0			0.006 - 0.007	NT
Cantaloupe	739	0			0.005 ^	NT
Cauliflower	186	0			0.004 ^	NT
Hot Peppers (V-1)	553	1	0.2	0.017 ^	0.002 - 0.003	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.004	NT
Sweet Bell Peppers	741	0			0.004 ^	NT
Tangerines	717	0			0.005 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	7,354	1				
Fenamiphos sulfoxide (metabolite of Fenamiphos)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.004 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.004	NT
Cabbage	742	0			0.003 - 0.004	NT
Cantaloupe	739	0			0.005 ^	NT
Cauliflower	186	0			0.004 ^	NT
Hot Peppers (V-1)	553	1	0.2	0.11 ^	0.002 - 0.003	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.004	NT
Sweet Bell Peppers	741	0			0.004 ^	NT
Tangerines	717	0			0.005 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	7,354	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
Fenarimol (fungicide)						
Baby Food - Green Beans	584	0			0.008 ^	NT
Baby Food - Pears	585	0			0.010 ^	0.1
Baby Food - Sweet Potatoes	585	0			0.030 ^	NT
Beets, Canned	756	0			0.008 - 0.10	NT
Cantaloupe	739	0			0.010 ^	0.20
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.008 ^	NT
Onion	93	0			0.008 ^	NT
Plums	143	0			0.008 ^	NT
Snap Peas	744	0			0.002 - 0.010	NT
Sweet Bell Peppers	741	0			0.003 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.008 ^	0.20
TOTAL	6,338	0				
Fenazaquin (insecticide, acaricide)						
Mushrooms	186	0			0.005 ^	NT
Orange Juice	<u>585</u>	<u>0</u>			0.005 ^	0.5
TOTAL	771	0				
Fenbuconazole (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears (V-2)	585	2	0.3	0.002 ^	0.001 - 0.003	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.005 - 0.006	NT
Cantaloupe	739	0			0.005 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	553	1	0.2	0.005 ^	0.004 - 0.006	0.40
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.005 ^	1.0
Plums	143	0			0.006 ^	1.0
Snap Peas	744	0			0.001 - 0.006	NT
Sweet Bell Peppers	741	0			0.005 ^	0.40
Tangerines	717	0			0.005 ^	1.0
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	7,383	3				
Fenchlorphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	372	0			0.002 - 0.003	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	2,615	0				
Fenhexamid (fungicide)						
Baby Food - Pears	585	0			0.010 ^	10
Beets, Canned	383	0			0.011 ^	NT
Cauliflower	186	0			0.030 ^	NT
Cherry Tomatoes	738	5	0.7	0.005 - 0.060	0.003 ^	2.0
Lettuce	744	0			0.013 ^	30.0
Mushrooms	186	0			0.013 ^	NT
Onion	93	0			0.024 ^	NT
Orange Juice	585	0			0.013 ^	NT
Plums	143	14	9.8	0.040 - 0.36	0.024 ^	1.5
Snap Peas (V-2)	465	2	0.4	0.15 - 0.23	0.009 - 0.024	NT
Sweet Bell Peppers	741	6	0.8	0.013 - 0.043	0.011 ^	2.0
Winter Squash	<u>186</u>	<u>0</u>			0.024 ^	NT
TOTAL	5,035	27				

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
Fenitrothion (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	186	0			0.003 - 0.10	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.003 - 0.006	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	3,758	0				
Fenobucarb - BPMC (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	2,615	0				
Fenpropathrin (insecticide)						
Baby Food - Green Beans	584	0			0.009 ^	NT
Baby Food - Pears	585	0			0.016 ^	5.0
Baby Food - Sweet Potatoes	585	0			0.009 ^	NT
Beets, Canned	756	0			0.009 - 0.020	NT
Cabbage	742	0			0.030 ^	3.0
Cantaloupe	739	0			0.010 ^	0.5
Cauliflower	186	0			0.010 ^	3.0
Cherry Tomatoes	738	11	1.5	0.073 - 0.23	0.044 - 0.063	1.0
Hot Peppers	553	3	0.5	0.015 - 0.094	0.009 - 0.40	1.0
Lettuce	744	0			0.020 ^	NT
Mushrooms	186	0			0.020 ^	NT
Onion	186	0			0.012 - 0.050	NT
Orange Juice	585	0			0.020 ^	2.0
Papaya	384	0			0.080 ^	1.0
Plums	143	10	7	0.020 - 0.042	0.012 ^	1.4
Snap Peas	744	0			0.003 - 0.016	0.02
Spinach, Canned	198	0			0.020 ^	NT
Spinach, Frozen	198	0			0.020 ^	NT
Sweet Bell Peppers	741	11	1.5	0.005 - 0.080	0.004 ^	1.0
Tangerines	717	0			0.010 ^	2.0
Winter Squash	186	1	0.5	0.020 ^	0.012 ^	0.5
TOTAL	10,480	36				
Fenpyroximate (acaricide)						
Baby Food - Pears	585	14	2.4	0.002 - 0.004	0.001 - 0.006	0.40
Cantaloupe	739	0			0.010 ^	0.10
Cauliflower	186	0			0.001 ^	NT
Cherry Tomatoes	738	37	5	0.003 - 0.027	0.002 ^	0.20
Hot Peppers	274	2	0.7	0.005 - 0.006	0.004 ^	0.20
Mushrooms	186	0			0.005 ^	NT
Orange Juice	585	0			0.005 ^	0.60
Snap Peas	372	0			0.001 - 0.006	NT
Tangerines	717	0			0.010 ^	0.60
TOTAL	4,382	53				
Fensulfothion (insecticide, fumigant)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	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
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,615	0				
Fenthion (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.002 - 0.006	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	5,214	0				
Fenthion oxygen analog (insecticide metabolite)						
Snap Peas	<u>278</u>	<u>0</u>			0.003 ^	NT
TOTAL	278	0				
Fenvalerate (isomer of Esfenvalerate)						
Baby Food - Green Beans	584	0			0.015 ^	2.0
Baby Food - Sweet Potatoes	585	0			0.015 ^	0.05
Beets, Canned	373	0			0.015 ^	NT
Cabbage	742	0			0.089 ^	10.0
Cherry Tomatoes	738	0			0.059 - 0.10	1.0
Hot Peppers	279	4	1.4	0.025 ^	0.015 ^	1.0
Snap Peas	<u>279</u>	<u>3</u>	1.1	0.025 - 0.16	0.015 ^	1
TOTAL	3,580	7				
Fipronil (insecticide)						
Baby Food - Pears	568	0			0.003 - 0.050	NT
Cauliflower	186	0			0.010 ^	NT
Snap Peas (V-2)	<u>372</u>	<u>2</u>	0.5	0.014 - 0.053	0.003 - 0.020	NT
TOTAL	1,126	2				
Flonicamid (insecticide)						
Baby Food - Green Beans	584	0			0.018 ^	NT
Baby Food - Pears	585	0			0.001 ^	0.20
Baby Food - Sweet Potatoes	585	0			0.018 ^	0.20
Beets, Canned	373	0			0.018 ^	0.6
Cabbage	742	6	0.8	0.005 - 0.014	0.003 ^	1.5
Cantaloupe	739	0			0.010 ^	0.40
Cauliflower	186	1	0.5	0.002 ^	0.001 ^	1.5
Cherry Tomatoes	738	54	7.3	0.002 - 0.39	0.001 ^	0.40
Hot Peppers	553	4	0.7	0.017 - 0.030	0.008 - 0.018	0.40
Lettuce	744	55	7.4	0.006 - 0.63	0.006 ^	4.0
Mushrooms	186	0			0.006 ^	NT
Onion	93	0			0.018 ^	NT
Orange Juice	585	0			0.006 ^	NT
Plums	143	0			0.018 ^	0.60
Snap Peas (V-1)	744	1	0.1	0.002 ^	0.001 - 0.018	NT
Spinach, Canned	198	8	4	0.039 - 0.33	0.020 ^	9.0
Spinach, Frozen	198	10	5.1	0.021 - 0.12	0.020 ^	9.0
Winter Squash	<u>186</u>	<u>0</u>			0.018 ^	0.40
TOTAL	8,162	139				

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
Fluazifop butyl (herbicide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.5
Beets, Canned	373	0			0.002 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	553	0			0.002 - 0.004	NT
Onion	186	0			0.002 - 0.005	0.5
Plums	143	0			0.002 ^	0.05
Snap Peas	744	0			0.001 - 0.002	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	4,125	0				
Flubendiamide (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cherry Tomatoes	738	0			0.009 ^	0.60
Hot Peppers	553	11	2	0.001 - 0.012	0.001 - 0.003	0.60
Lettuce	744	0			0.035 ^	11
Mushrooms	186	0			0.035 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.035 ^	NT
Plums	143	5	3.5	0.005 - 0.011	0.003 ^	1.6
Snap Peas	372	0			0.003 ^	0.50
Spinach, Canned	198	3	1.5	0.004 - 0.011	0.003 ^	11
Spinach, Frozen	198	10	5.1	0.004 - 1.4	0.003 ^	11
Winter Squash	<u>186</u>	<u>9</u>	<u>4.8</u>	<u>0.005 - 0.011</u>	<u>0.003 ^</u>	<u>0.20</u>
TOTAL	5,538	38				
Fludioxonil (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	0.4
Baby Food - Pears	585	8	1.4	0.020 - 0.081	0.012 ^	5.0
Baby Food - Sweet Potatoes	585	0			0.006 ^	3.5
Beets, Canned	756	0			0.006 - 0.015	0.75
Cabbage	742	0			0.006 ^	2.0
Cantaloupe	698	0			0.010 ^	0.03
Cauliflower	186	0			0.012 ^	2.0
Cherry Tomatoes	738	6	0.8	0.003 - 0.031	0.002 ^	0.50
Hot Peppers	553	0			0.006 - 0.090	0.01
Lettuce	744	0			0.050 ^	30
Mushrooms	186	0			0.050 ^	NT
Onion	186	0			0.006 - 0.15	0.2
Orange Juice	585	0			0.050 ^	10
Papaya	384	0			0.020 ^	0.45
Plums	143	116	81.1	0.010 - 1.5	0.006 ^	5.0
Snap Peas	744	0			0.006 - 0.012	0.01
Spinach, Canned	198	0			0.020 ^	0.01
Spinach, Frozen	198	0			0.020 ^	0.01
Sweet Bell Peppers (X-1)	741	1	0.1	0.040 ^	0.015 ^	0.01
Tangerines	717	2	0.3	0.017 - 0.032	0.010 ^	10
Winter Squash	<u>186</u>	<u>0</u>			<u>0.006 ^</u>	<u>0.45</u>
TOTAL	10,439	133				
Flufenoxuron (insecticide)						
Mushrooms	186	0			0.002 ^	NT
Orange Juice	<u>585</u>	<u>0</u>			<u>0.002 ^</u>	<u>0.30</u>
TOTAL	771	0				
Flumioxazin (herbicide)						
Beets, Canned	383	0			0.020 ^	NT
Cherry Tomatoes	738	0			0.029 ^	0.02
Hot Peppers	259	0			0.20 ^	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
Onion	93	0			0.090 ^	0.02
Sweet Bell Peppers	<u>741</u>	<u>0</u>			0.020 ^	0.02
TOTAL	2,214	0				
Fluopicolide (fungicide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.02
Beets, Canned	756	0			0.002 - 0.027	0.15
Cherry Tomatoes	738	2	0.3	0.003 - 0.010	0.002 - 0.019	1.60
Hot Peppers	553	16	2.9	0.003 - 0.085	0.002 - 0.004	1.60
Lettuce	744	11	1.5	0.035 - 5.3	0.030 ^	25
Mushrooms	186	0			0.030 ^	NT
Onion	186	0			0.002 - 0.010	7.0
Orange Juice	585	0			0.030 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas (V-4)	372	4	1.1	0.003 - 0.087	0.002 ^	NT
Spinach, Canned	198	0			0.008 ^	25
Spinach, Frozen	198	15	7.6	0.010 - 0.55	0.008 ^	25
Winter Squash	<u>186</u>	<u>5</u>	2.7	0.003 ^	0.002 ^	0.50
TOTAL	6,014	53				
Fluoxastrobin (fungicide)						
Baby Food - Pears	585	0			0.001 ^	NT
Beets, Canned	383	0			0.025 ^	NT
Cantaloupe	739	0			0.002 ^	NT
Cauliflower	186	0			0.004 ^	NT
Cherry Tomatoes	738	0			0.020 ^	1.0
Hot Peppers	274	0			0.008 ^	1.0
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	465	0			0.001 - 0.002	NT
Sweet Bell Peppers	741	0			0.025 ^	1.0
Tangerines	717	0			0.002 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.50
TOTAL	5,250	0				
Fluridone (herbicide)						
Baby Food - Green Beans	584	0			0.002 ^	0.1
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.1
Beets, Canned	756	0			0.001 - 0.002	0.1
Cabbage	742	0			0.002 - 0.003	0.1
Cantaloupe	739	0			0.010 ^	0.1
Hot Peppers	553	0			0.001 - 0.002	0.1
Lettuce	744	0			0.001 ^	0.1
Mushrooms	186	0			0.001 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.001 ^	0.1
Plums	143	0			0.002 ^	0.1
Snap Peas	372	0			0.002 ^	0.1
Spinach, Canned	198	0			0.002 ^	0.1
Spinach, Frozen	198	0			0.002 ^	0.1
Sweet Bell Peppers	741	0			0.001 ^	0.1
Tangerines	717	0			0.010 ^	0.1
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.1
TOTAL	8,122	0				
Flutolanil (fungicide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	373	0			0.002 ^	NT
Hot Peppers	279	0			0.002 ^	NT
Lettuce (V-1)	744	1	0.1	0.15 ^	0.003 ^	NT
Mushrooms	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
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	4,130	1				
Fluvalinate (insecticide)						
Baby Food - Green Beans	584	0			0.015 ^	NT
Baby Food - Sweet Potatoes	585	0			0.015 ^	NT
Beets, Canned	756	0			0.015 - 0.018	NT
Cabbage	742	0			0.075 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cherry Tomatoes	738	0			0.059 - 0.082	NT
Hot Peppers	538	0			0.015 - 0.20	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.012 - 0.16	NT
Orange Juice	585	0			0.010 ^	NT
Papaya	384	0			0.10 ^	NT
Plums	143	0			0.012 ^	NT
Snap Peas	372	0			0.012 - 0.015	NT
Spinach, Canned	198	0			0.10 ^	NT
Spinach, Frozen	198	0			0.10 ^	NT
Sweet Bell Peppers	741	0			0.021 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.012 ^	NT
TOTAL	9,322	0				
Folpet (fungicide)						
Beets, Canned	383	0			0.060 ^	NT
Lettuce	713	0			0.030 ^	50.0
Mushrooms	186	0			0.030 ^	NT
Orange Juice	585	0			0.030 ^	NT
Tangerines	<u>522</u>	<u>0</u>			0.030 - 0.15	NT
TOTAL	2,389	0				
Fonofos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.1
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.1
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	0.1
Lettuce	434	0			0.010 ^	0.1
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.010 - 0.050	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.002 - 0.003	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	6,233	0				
Forchlorfenuron (plant growth regulator)						
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	0.01
Snap Peas	93	0			0.002 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	515	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
Formetanate hydrochloride (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.010	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.006 ^	0.02
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Sweet Bell Peppers	741	0			0.010 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	3,739	0				
Fosthiazate (nematicide)						
Cherry Tomatoes	738	0			0.001 ^	0.02
TOTAL	738	0				
Halosulfuron (herbicide)						
Beets, Canned	383	0			0.050 ^	NT
Hot Peppers	274	0			0.004 ^	0.05
Sweet Bell Peppers	741	0			0.050 ^	0.05
TOTAL	1,398	0				
Halosulfuron methyl (herbicide)						
Cantaloupe	739	0			0.010 ^	0.1
Cherry Tomatoes	738	0			0.001 ^	0.05
Tangerines	717	0			0.010 ^	NT
TOTAL	2,194	0				
Hexaconazole (fungicide)						
Baby Food - Green Beans	584	0			0.012 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
Beets, Canned	373	0			0.012 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Hot Peppers	279	0			0.012 ^	NT
Onion	93	0			0.012 ^	NT
Plums	143	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.012 ^	NT
TOTAL	4,071	0				
Hexythiazox (insecticide, acaricide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.012	NT
Cantaloupe	739	0			0.010 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.002 ^	0.35
Plums	143	2	1.4	0.005 ^	0.003 ^	1.0
Snap Peas	372	0			0.003 ^	0.3
Sweet Bell Peppers	741	0			0.012 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	5,249	2				
Hydroprene (insect growth regulator)						
Baby Food - Pears	585	0			0.013 ^	0.2
Cabbage	742	0			0.034 ^	0.2
Cauliflower	186	0			0.002 ^	0.2
Onion	93	0			0.080 ^	0.2
Papaya	384	0			0.030 ^	0.2
Snap Peas	372	0			0.002 - 0.013	0.2

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Spinach, Canned	176	0			0.020 ^	0.2
Spinach, Frozen	<u>198</u>	<u>0</u>			0.020 ^	0.2
TOTAL	2,736	0				
3-Hydroxycarbofuran (metabolite of Carbofuran)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.002 - 0.006	NT
Cabbage	742	0			0.006 ^	NT
Cantaloupe	739	0			0.010 ^	0.4
Cauliflower	186	0			0.004 ^	NT
Cherry Tomatoes	738	0			0.002 ^	1
Hot Peppers	553	0			0.004 - 0.006	1
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.006 - 0.020	NT
Orange Juice	585	0			0.003 ^	NT
Papaya	384	0			0.004 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.001 - 0.006	NT
Spinach, Canned	198	0			0.016 ^	NT
Spinach, Frozen	198	0			0.016 ^	NT
Sweet Bell Peppers	741	0			0.002 ^	1
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	0.8
TOTAL	10,480	0				
5-Hydroxythiabendazole (metabolite of Thiabendazole)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.05
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,615	0				
Imazalil (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.010 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.005	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.009 - 0.030	NT
Hot Peppers	279	0			0.003 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	37	6.3	0.013 - 0.061	0.010 ^	10.0
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.010	NT
Sweet Bell Peppers	741	0			0.005 ^	NT
Tangerines	715	608	85	0.011 - 3.6	0.010 ^	10.0
Winter Squash (V-1)	<u>186</u>	<u>1</u>	0.5	0.005 ^	0.003 ^	NT
TOTAL	7,107	646				
Imazethapyr (herbicide)						
Lettuce	744	0			0.020 ^	0.1
Mushrooms	155	0			0.020 ^	NT
Orange Juice	<u>585</u>	<u>0</u>			0.020 ^	NT
TOTAL	1,484	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)						
Baby Food - Green Beans	584	0			0.006 ^	4.0
Baby Food - Pears	585	78	13.3	0.002 - 0.025	0.001 ^	0.6
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.40
Beets, Canned	756	0			0.006 - 0.009	0.4
Cabbage	742	67	9	0.010 - 0.13	0.006 ^	3.5
Cantaloupe	739	73	9.9	0.010 - 0.066	0.010 ^	0.5
Cauliflower	186	67	36	0.002 - 0.050	0.001 ^	3.5
Cherry Tomatoes	738	152	20.6	0.008 - 0.26	0.005 ^	1.0
Hot Peppers	553	58	10.5	0.010 - 0.73	0.006 - 0.040	1.0
Lettuce	744	271	36.4	0.003 - 0.12	0.003 ^	3.5
Mushrooms	186	0			0.003 ^	NT
Onion	186	11	5.9	0.010 ^	0.006 - 0.040	0.15
Orange Juice	585	34	5.8	0.003 - 0.005	0.003 ^	0.70
Papaya	384	0			0.056 ^	1.0
Plums	143	0			0.006 ^	3.0
Snap Peas	744	31	4.2	0.002 - 0.36	0.001 - 0.006	4.0
Spinach, Canned	198	7	3.5	0.033 - 0.13	0.032 ^	3.5
Spinach, Frozen	198	10	5.1	0.033 - 0.75	0.032 ^	3.5
Sweet Bell Peppers	741	197	26.6	0.009 - 0.37	0.009 ^	1.0
Tangerines	717	14	2	0.011 - 0.047	0.010 ^	0.70
Winter Squash	186	34	18.3	0.010 - 0.046	0.006 ^	0.5
TOTAL	10,480	1,104				
Imidacloprid urea (metabolite of Imidacloprid)						
Beets, Canned	383	0			0.022 ^	0.4
Sweet Bell Peppers	741	0			0.022 ^	1.0
TOTAL	1,124	0				
Imiprothrin (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.061	NT
Cabbage	742	0			0.006 ^	NT
Cherry Tomatoes	738	0			0.031 - 0.20	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.006 - 0.20	NT
Orange Juice	585	0			0.010 ^	NT
Papaya	384	0			0.060 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Spinach, Canned	198	0			0.030 ^	NT
Spinach, Frozen	198	0			0.030 ^	NT
Sweet Bell Peppers	741	0			0.047 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	7,607	0				
Indaziflam (herbicide)						
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	93	0			0.002 ^	NT
Winter Squash	186	0			0.002 ^	NT
TOTAL	515	0				
Indoxacarb (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.01
Beets, Canned	756	0			0.006 - 0.021	0.3
Cabbage	742	0			0.006 ^	12
Cantaloupe	739	0			0.010 ^	0.60
Cherry Tomatoes	738	32	4.3	0.003 - 0.049	0.002 ^	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
Hot Peppers	553	6	1.1	0.005 - 0.027	0.004 - 0.006	0.50
Lettuce	744	1	0.1	0.094 ^	0.020 ^	14
Mushrooms	186	0			0.020 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.020 ^	NT
Plums	143	2	1.4	0.010 - 0.020	0.006 ^	0.90
Snap Peas	372	0			0.006 ^	NT
Spinach, Canned	198	9	4.5	0.010 - 0.84	0.008 ^	14
Spinach, Frozen	198	4	2	0.009 - 0.27	0.008 ^	14
Sweet Bell Peppers	741	0			0.021 ^	0.50
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	0.60
TOTAL	8,860	54				
Iprodione (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	2.0
Baby Food - Pears (V-16)	585	16	2.7	0.014 - 0.19	0.008 - 0.029	NT
Baby Food - Sweet Potatoes	585	0			0.015 ^	NT
Beets, Canned	756	0			0.003 - 0.022	NT
Cantaloupe	676	0			0.010 ^	NT
Cauliflower	186	0			0.009 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	2	0.3	0.041 - 0.27	0.022 ^	25.0
Mushrooms	186	0			0.022 ^	NT
Onion	186	0			0.003 - 0.20	0.5
Orange Juice	585	0			0.022 ^	NT
Plums	143	1	0.7	0.62 ^	0.015 ^	20.0
Snap Peas (V-21)	744	21	2.8	0.005 - 3.4	0.003 - 0.015	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	7,142	40				
Iprovalicarb (fungicide)						
Beets, Canned	383	0			0.010 ^	NT
Cherry Tomatoes	738	0			0.002 ^	1.0
Sweet Bell Peppers	<u>741</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,862	0				
Isofenphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	372	0			0.002 - 0.003	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	2,615	0				
Isoprocarb (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	2,615	0				
Kresoxim-methyl (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.003 - 0.010	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
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.008	NT
Cauliflower	186	0			0.003 - 0.010	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.003 - 0.010	NT
Sweet Bell Peppers	741	0			0.008 ^	NT
Winter Squash	186	0			0.006 ^	0.40
TOTAL	4,882	0				
Lactofen (herbicide)						
Baby Food - Green Beans	584	0			0.003 ^	0.01
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cherry Tomatoes	738	0			0.029 - 0.20	0.02
Hot Peppers	553	0			0.003 - 0.32	0.02
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	3,627	0				
Leptophos oxygen analog (insecticide metabolite)						
Onion	93	0			0.012 ^	NT
Plums	143	0			0.012 ^	NT
Snap Peas	93	0			0.012 ^	NT
Winter Squash	186	0			0.012 ^	NT
TOTAL	515	0				
Lindane - BHC gamma (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	0.5 AL
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.5 AL
Beets, Canned	756	0			0.002 - 0.043	0.5 AL
Cantaloupe	512	0			0.010 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.002 ^	NT
Lettuce	620	0			0.013 ^	NT
Mushrooms	186	0			0.013 ^	NT
Onion	93	0			0.002 ^	0.5 AL
Orange Juice	453	0			0.013 ^	0.5 AL
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.001 - 0.003	0.5 AL
Tangerines	554	0			0.010 ^	0.5 AL
Winter Squash	186	0			0.002 ^	NT
TOTAL	6,466	0				
Linuron (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 ^	NT
Cantaloupe	369	0			0.038 - 0.19	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce (V-2)	713	2	0.3	0.005 ^	0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas (V-1)	744	1	0.1	0.005 ^	0.003 - 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
Tangerines	423	0			0.038 - 0.19	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	6,034	3				
Malathion (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	8
Baby Food - Pears	585	0			0.003 ^	8
Baby Food - Sweet Potatoes	585	0			0.003 ^	1
Beets, Canned	756	0			0.003 - 0.010	8
Cabbage	742	0			0.021 ^	8
Cantaloupe	739	0			0.010 ^	8
Cauliflower	186	0			0.001 ^	8
Cherry Tomatoes	738	8	1.1	0.005 - 0.044	0.003 ^	8
Hot Peppers	553	15	2.7	0.002 - 0.015	0.002 - 0.003	8
Lettuce	744	0			0.002 ^	8
Mushrooms	186	0			0.002 ^	8
Onion	186	0			0.003 - 0.005	8
Orange Juice	585	0			0.002 ^	8
Papaya	384	0			0.008 ^	1
Plums	143	0			0.003 ^	8
Snap Peas	744	55	7.4	0.002 - 0.082	0.001 - 0.003	8
Spinach, Canned	198	0			0.008 ^	8
Spinach, Frozen	198	1	0.5	0.33 ^	0.008 ^	8
Sweet Bell Peppers	741	2	0.3	0.010 - 0.011	0.010 ^	8
Tangerines	717	3	0.4	0.013 - 0.027	0.010 ^	8
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	8
TOTAL	10,480	84				
Malathion oxygen analog (metabolite of Malathion)						
Baby Food - Green Beans	584	0			0.003 ^	8
Baby Food - Pears	585	0			0.003 ^	8
Baby Food - Sweet Potatoes	585	0			0.003 ^	1
Beets, Canned	756	0			0.002 - 0.003	8
Cantaloupe	739	0			0.010 ^	8
Cauliflower	186	0			0.003 ^	8
Cherry Tomatoes	738	0			0.002 ^	8
Hot Peppers	553	0			0.001 - 0.003	8
Lettuce	744	0			0.002 ^	8
Mushrooms	186	0			0.002 ^	8
Onion	186	0			0.002 - 0.005	8
Orange Juice	585	0			0.002 ^	8
Papaya	384	0			0.002 ^	1
Plums	143	0			0.002 ^	8
Snap Peas	744	0			0.002 - 0.003	8
Spinach, Canned	198	0			0.002 ^	8
Spinach, Frozen	198	1	0.5	0.003 ^	0.002 ^	8
Sweet Bell Peppers	741	0			0.002 ^	8
Tangerines	717	0			0.010 ^	8
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	8
TOTAL	9,738	1				
Mandipropamid (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.005 - 0.015	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.01
Beets, Canned	756	0			0.003 - 0.010	NT
Cabbage	742	0			0.003 - 0.007	3
Cantaloupe	739	0			0.005 ^	0.6
Cauliflower	186	0			0.005 ^	3
Cherry Tomatoes	738	23	3.1	0.003 - 0.20	0.002 ^	1.0
Hot Peppers	553	8	1.4	0.003 - 0.012	0.001 - 0.003	1.0
Lettuce	744	199	26.7	0.002 - 4.6	0.002 ^	20
Mushrooms	186	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
Onion	186	0			0.003 - 0.005	0.05
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas (V-2)	744	2	0.3	0.005 - 0.014	0.003 - 0.005	NT
Spinach, Canned	198	3	1.5	0.022 - 0.087	0.003 ^	20
Spinach, Frozen	198	72	36.4	0.004 - 8.9	0.003 ^	20
Sweet Bell Peppers	741	2	0.3	0.013 - 0.071	0.010 ^	1.0
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.6
TOTAL	9,379	309				
Mepanipyrim (fungicide)						
Cherry Tomatoes	<u>738</u>	<u>0</u>			0.023 - 0.10	0.5
TOTAL	738	0				
Metalaxyl/Mefenoxam¹ (fungicide)						
Baby Food - Green Beans	584	0			0.002 ^	0.2
Baby Food - Pears	585	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.5
Beets, Canned	756	0			0.002 - 0.051	0.1
Cabbage	742	0			0.067 ^	1.0
Cantaloupe	739	22	3	0.010 - 0.038	0.010 ^	1.0
Cauliflower	186	1	0.5	0.007 ^	0.004 ^	1.0
Cherry Tomatoes	738	20	2.7	0.002 - 0.055	0.001 ^	1.0
Hot Peppers	553	35	6.3	0.003 - 0.17	0.002 - 0.050	1.0
Lettuce	744	61	8.2	0.001 - 0.080	0.001 ^	5.0
Mushrooms	186	0			0.001 ^	NT
Onion	186	0			0.002 - 0.075	3.0
Orange Juice	585	0			0.001 ^	1.0
Papaya	384	0			0.020 ^	0.40
Plums	143	0			0.002 ^	1.0
Snap Peas	744	11	1.5	0.003 - 0.061	0.001 - 0.006	0.2
Spinach, Canned	198	0			0.020 ^	10.0
Spinach, Frozen	198	0			0.020 ^	10.0
Sweet Bell Peppers	741	41	5.5	0.030 - 0.30	0.030 ^	1.0
Tangerines	717	0			0.010 ^	1.0
Winter Squash	<u>186</u>	<u>2</u>	1.1	0.003 ^	0.002 ^	1.0
TOTAL	10,480	193				
Metalddehyde (molluscicide)						
Cantaloupe	<u>616</u>	<u>0</u>			0.010 ^	NT
TOTAL	616	0				
Metconazole (fungicide)						
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	0.20
Snap Peas	93	0			0.006 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	515	0				
Methamidophos (insecticide) (also a metabolite of Acephate)						
Baby Food - Green Beans	584	84	14.4	0.003 - 0.092	0.002 ^	1 ²
Baby Food - Pears	585	0			0.001 ^	0.02
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.02
Beets, Canned	756	0			0.002 - 0.008	0.02
Cabbage	741	0			0.009 - 0.010	1.0
Cantaloupe	739	0			0.010 ^	0.02
Cauliflower	186	3	1.6	0.006 - 0.018	0.004 ^	2.0
Cherry Tomatoes	402	6	1.5	0.035 - 0.21	0.010 ^	2.0
Hot Peppers	553	72	13	0.003 - 0.58	0.002 - 0.016	1.0 ³
Lettuce	744	9	1.2	0.006 - 0.055	0.005 ^	10
Mushrooms	186	0			0.005 ^	0.02
Onion	93	0			0.003 ^	0.02
Orange Juice	585	0			0.005 ^	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
Plums	143	0			0.003 ^	0.02
Snap Peas	744	4	0.5	0.002 - 0.010	0.001 - 0.003	0.02
Sweet Bell Peppers	741	108	14.6	0.009 - 0.26	0.008 ^	4.0
Tangerines	717	0			0.010 ^	0.02
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.02
TOTAL	9,270	286				
Methidathion (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	0.05
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.006	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	0.05
Snap Peas	744	0			0.002 - 0.003	NT
Sweet Bell Peppers	741	0			0.006 ^	NT
Tangerines	717	3	0.4	0.011 - 0.023	0.010 ^	6.0
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	6,338	3				
Methidathion oxygen analog (metabolite of Methidathion)						
Baby Food - Green Beans	197	0			0.006 ^	NT
Baby Food - Pears	585	0			0.003 ^	0.05
Baby Food - Sweet Potatoes	198	0			0.006 ^	NT
Beets, Canned	93	0			0.006 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	93	0			0.006 ^	NT
Snap Peas	<u>465</u>	<u>0</u>			0.003 - 0.006	NT
TOTAL	1,817	0				
Methiocarb (insecticide) (analyzed as sulfoxide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.001 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	4,497	0				
Methomyl (insecticide)						
Baby Food - Green Beans	584	0			0.012 ^	2
Baby Food - Pears	585	0			0.002 ^	4
Baby Food - Sweet Potatoes	585	0			0.012 ^	0.2
Beets, Canned	756	0			0.012 - 0.013	0.2
Cabbage	742	9	1.2	0.005 - 0.017	0.003 - 0.009	5
Cantaloupe	739	27	3.7	0.011 - 0.072	0.010 ^	0.2
Cauliflower	186	1	0.5	0.008 ^	0.002 ^	2
Cherry Tomatoes	738	1	0.1	0.013 ^	0.001 ^	1
Hot Peppers	553	16	2.9	0.020 - 0.30	0.012 - 0.040	2
Lettuce	744	29	3.9	0.011 - 0.14	0.010 ^	5
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.012 ^	NT
Orange Juice	585	0			0.010 ^	2
Plums	143	0			0.012 ^	NT
Snap Peas	744	14	1.9	0.004 - 0.18	0.002 - 0.012	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
Spinach, Canned	198	0			0.010 ^	6
Spinach, Frozen	198	1	0.5	0.014 ^	0.010 ^	6
Sweet Bell Peppers	741	63	8.5	0.015 - 1.3	0.013 ^	2
Tangerines	717	0			0.010 ^	2
Winter Squash	186	0			0.012 ^	0.2
TOTAL	10,003	161				
Methoprene (insect growth regulator)						
Baby Food - Pears	568	0			0.014 - 0.096	EX
Cauliflower	186	2	1.1	0.17 - 0.18	0.050 ^	EX
Snap Peas	<u>372</u>	<u>1</u>	0.3	0.023 ^	0.014 - 0.015	EX
TOTAL	1,126	3				
Methoxychlor Total (insecticide)						
Baby Food - Pears	585	0			0.002 ^	NT
Beets, Canned	383	0			0.015 ^	NT
Cauliflower	186	0			0.003 ^	NT
Snap Peas	<u>372</u>	<u>0</u>			0.001 - 0.002	NT
TOTAL	1,526	0				
Methoxychlor olefin (metabolite of Methoxychlor)						
Baby Food - Pears	585	0			0.001 ^	NT
Cauliflower	186	0			0.003 ^	NT
Snap Peas	<u>372</u>	<u>0</u>			0.001 ^	NT
TOTAL	1,143	0				
Methoxychlor p,p' (isomer of Methoxychlor)						
Baby Food - Green Beans	486	0			0.008 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
Beets, Canned	342	0			0.008 - 0.012	NT
Hot Peppers	279	0			0.008 ^	NT
Onion	93	0			0.009 ^	NT
Plums	143	0			0.010 ^	NT
Snap Peas	310	0			0.008 - 0.050	NT
Tangerines	676	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.009 ^	NT
TOTAL	3,100	0				
Methoxyfenozide (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	1.5
Baby Food - Pears	585	263	45	0.002 - 0.029	0.001 ^	1.5
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.02
Beets, Canned	756	0			0.003 - 0.006	0.5
Cabbage	742	0			0.003 ^	7.0
Cantaloupe	739	0			0.010 ^	0.3
Cauliflower	186	0			0.001 ^	7.0
Cherry Tomatoes	738	9	1.2	0.033 ^	0.020 ^	2.0
Hot Peppers	553	32	5.8	0.005 - 0.61	0.003 - 0.016	2.0
Lettuce	744	22	3	0.003 - 1.1	0.003 ^	30
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.003 - 0.010	NT
Orange Juice	585	0			0.003 ^	10
Papaya	384	0			0.016 ^	0.6
Plums	143	30	21	0.005 - 0.072	0.003 ^	0.30
Snap Peas	744	9	1.2	0.002 - 0.85	0.001 - 0.003	1.5
Spinach, Canned	198	35	17.7	0.033 - 0.82	0.016 ^	30
Spinach, Frozen	198	29	14.6	0.016 - 1.3	0.016 ^	30
Sweet Bell Peppers	741	66	8.9	0.006 - 0.057	0.006 ^	2.0
Tangerines	717	0			0.010 ^	10
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.3
TOTAL	10,480	495				

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
Metolachlor (herbicide)						
Baby Food - Green Beans	584	0			0.003 ^	0.30
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 ^	0.20
Beets, Canned	756	0			0.003 - 0.012	0.3
Cabbage	742	0			0.015 ^	0.60
Cantaloupe	739	0			0.010 ^	0.10
Cauliflower	186	0			0.001 ^	0.60
Cherry Tomatoes	738	0			0.001 ^	0.10
Hot Peppers	553	0			0.003 - 0.080	0.50
Lettuce	744	0			0.001 ^	NT
Mushrooms	186	0			0.001 ^	NT
Onion	186	0			0.003 - 0.015	0.10
Orange Juice	585	0			0.001 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.001 - 0.003	0.30
Spinach, Canned	198	0			0.010 ^	0.50
Spinach, Frozen	198	0			0.010 ^	0.50
Sweet Bell Peppers	741	0			0.001 ^	0.10
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	0.10
TOTAL	10,096	0				
Metribuzin (herbicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.013 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	186	0			0.005 ^	NT
Cherry Tomatoes	738	1	0.1	0.003 ^	0.002 ^	0.1
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.005 ^	NT
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.005 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	1	0.1	0.005 ^	0.002 - 0.013	0.1
Winter Squash	186	0			0.003 ^	NT
TOTAL	6,011	2				
Mevinphos (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Pears	585	0			0.005 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	756	0			0.002 - 0.006	NT
Cabbage	742	0			0.002 - 0.003	1.0
Cantaloupe	719	0			0.010 ^	0.5
Cauliflower	186	0			0.010 ^	1.0
Cherry Tomatoes	738	0			0.008 ^	0.2
Hot Peppers	553	0			0.002 - 0.004	0.25
Lettuce	744	1	0.1	0.004 ^	0.002 ^	0.5
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.002 - 0.005	0.25
Spinach, Canned	198	0			0.008 ^	1.0
Spinach, Frozen	198	0			0.008 ^	1.0
Sweet Bell Peppers	741	0			0.006 ^	0.25
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.002 ^	NT
TOTAL	9,983	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
MGK-264 (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	10
Baby Food - Sweet Potatoes	585	0			0.012 - 0.040	10
Beets, Canned	756	0			0.003 - 0.060	5
Cabbage	742	0			0.11 ^	10
Hot Peppers	279	0			0.003 ^	10
Onion	186	0			0.003 - 0.070	5
Papaya	384	0			0.040 ^	5
Plums	143	0			0.003 ^	5
Snap Peas	372	3	0.8	0.005 - 0.033	0.003 - 0.010	5
Spinach, Canned	198	0			0.020 ^	10
Spinach, Frozen	198	0			0.020 ^	10
Winter Squash	186	0			0.003 ^	5
TOTAL	4,613	3				
Monocrotophos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.002 - 0.003	NT
Cantaloupe	739	0			0.010 ^	NT
Hot Peppers (V-5)	279	5	1.8	0.029 - 0.32	0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Sweet Bell Peppers	741	0			0.002 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	5,195	5				
Myclobutanil (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	1.0
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.03
Beets, Canned	756	0			0.001 - 0.006	0.03
Cabbage	742	0			0.003 ^	0.03
Cantaloupe	739	0			0.010 ^	0.20
Cauliflower	186	0			0.003 ^	0.03
Cherry Tomatoes	738	77	10.4	0.003 - 0.094	0.002 ^	0.30
Hot Peppers	553	23	4.2	0.010 - 0.17	0.006 - 0.050	4.0
Lettuce	744	1	0.1	0.046 ^	0.003 ^	9.0
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.003 ^	NT
Papaya	384	0			0.010 ^	3.0
Plums	143	0			0.006 ^	2.0
Snap Peas	744	3	0.4	0.002 ^	0.001 - 0.006	1.0
Spinach, Canned	198	0			0.020 ^	0.03
Spinach, Frozen	198	0			0.020 ^	0.03
Sweet Bell Peppers	741	183	24.7	0.001 - 0.23	0.001 ^	4.0
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	1	0.5	0.010 ^	0.006 ^	0.20
TOTAL	10,387	288				
Naled (insecticide)						
Lettuce	744	0			0.020 ^	1
Mushrooms	186	0			0.020 ^	0.5
Orange Juice	585	0			0.020 ^	3
TOTAL	1,515	0				
1-Naphthol (metabolite of Carbaryl)						
Baby Food - Green Beans	584	0			0.009 ^	NR
Baby Food - Sweet Potatoes	585	0			0.021 ^	NR
Beets, Canned	373	0			0.009 - 0.070	NR

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	742	0			0.017 - 0.057	NR
Cherry Tomatoes	738	0			0.017 ^	NR
Hot Peppers	539	47	8.7	0.015 - 0.93	0.009 - 0.040	NR
Lettuce	589	0			0.015 ^	NR
Mushrooms	186	0			0.015 ^	NR
Orange Juice	552	0			0.015 ^	NR
Snap Peas	279	1	0.4	0.015 ^	0.009 ^	NR
Spinach, Canned	198	66	33.3	0.061 - 2.9	0.040 ^	NR
Spinach, Frozen	198	1	0.5	0.12 ^	0.040 ^	NR
TOTAL	5,563	115				
Napropamide (herbicide)						
Baby Food - Green Beans	584	0			0.008 ^	NT
Baby Food - Pears	585	0			0.007 ^	0.1
Baby Food - Sweet Potatoes	585	0			0.030 ^	0.1
Beets, Canned	756	0			0.008 - 0.030	NT
Cabbage	742	0			0.045 ^	0.1
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	0.1
Cherry Tomatoes	738	0			0.002 ^	0.1
Hot Peppers	553	0			0.004 - 0.008	0.1
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.008 ^	NT
Orange Juice	585	0			0.005 ^	NT
Plums	143	0			0.008 ^	NT
Snap Peas	744	0			0.002 - 0.008	NT
Sweet Bell Peppers	741	0			0.010 ^	0.1
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.008 ^	NT
TOTAL	8,863	0				
Nicosulfuron (herbicide)						
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
TOTAL	585	0				
Norflurazon (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	552	0			0.005 - 0.064	0.1
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.005 - 0.006	NT
Cantaloupe	434	0			0.010 ^	NT
Cauliflower	170	0			0.015 - 0.060	NT
Hot Peppers	279	0			0.006 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.002 ^	0.2
Plums	143	0			0.006 ^	0.1
Snap Peas	744	0			0.005 - 0.067	NT
Sweet Bell Peppers	741	0			0.005 ^	NT
Tangerines	717	0			0.010 ^	0.2
Winter Squash	186	0			0.006 ^	NT
TOTAL	6,755	0				
Norflurazon desmethyl (metabolite of Norflurazon)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.018 - 0.12	0.1
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.008	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	170	0			0.018 - 0.48	NT
Hot Peppers	279	0			0.006 ^	NT
Mushrooms	186	0			0.005 ^	NT
Onion	93	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
Orange Juice	585	0			0.005 ^	0.2
Plums	143	0			0.006 ^	0.1
Snap Peas	744	0			0.006 - 0.12	NT
Sweet Bell Peppers	741	0			0.008 ^	NT
Tangerines	717	0			0.010 ^	0.2
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	7,093	0				
Novaluron (insecticide)						
Baby Food - Green Beans	584	0			0.048 ^	NT
Baby Food - Sweet Potatoes	585	0			0.048 ^	0.05
Beets, Canned	373	0			0.048 ^	NT
Cantaloupe	739	0			0.010 ^	0.15
Cherry Tomatoes	738	0			0.012 ^	1.0
Hot Peppers	553	0			0.016 - 0.048	1.0
Onion	93	0			0.048 ^	NT
Plums	143	0			0.048 ^	1.9
Snap Peas	372	0			0.048 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.048 ^	0.15
TOTAL	5,083	0				
Omethoate (insecticide) (also a metabolite of Dimethoate)						
Baby Food - Green Beans	584	0			0.002 ^	2.0
Baby Food - Pears	585	0			0.002 ^	2.0
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	756	0			0.002 - 0.008	NT
Cantaloupe	739	2	0.3	0.012 - 0.013	0.010 ^	1.0
Cauliflower	186	1	0.5	0.004 ^	0.002 ^	2.0
Cherry Tomatoes	584	17	2.9	0.003 - 0.062	0.002 ^	2.0
Hot Peppers	553	79	14.3	0.003 - 0.21	0.002 - 0.004	2.0
Lettuce	744	0			0.020 ^	2.0
Mushrooms	186	0			0.020 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.020 ^	2.0
Plums	143	0			0.003 ^	NT
Snap Peas	744	200	26.9	0.003 - 0.28	0.002 - 0.008	2.0
Sweet Bell Peppers	741	16	2.2	0.009 - 0.19	0.008 ^	2.0
Tangerines	717	2	0.3	0.020 - 0.025	0.010 ^	2.0
Winter Squash (V-1)	<u>186</u>	<u>1</u>	0.5	0.005 ^	0.003 ^	NT
TOTAL	8,711	318				
Oryzalin (herbicide)						
Cantaloupe	739	0			0.020 ^	NT
Papaya	364	0			0.16 ^	0.05
Tangerines	<u>697</u>	<u>0</u>			0.020 ^	0.05
TOTAL	1,800	0				
Oxadixyl (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.013 ^	NT
Baby Food - Sweet Potatoes	552	0			0.009 - 0.070	NT
Beets, Canned	93	0			0.006 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.003 - 0.013	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash (V-1)	<u>186</u>	<u>1</u>	0.5	0.010 ^	0.006 ^	NT
TOTAL	4,162	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
Oxamyl (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.002 - 0.006	2.0
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.1
Beets, Canned	756	0			0.006 - 0.008	NT
Cantaloupe	739	3	0.4	0.013 - 0.025	0.010 ^	2.0
Cauliflower	186	0			0.006 ^	NT
Cherry Tomatoes	738	2	0.3	0.048 ^	0.029 ^	2
Hot Peppers	553	48	8.7	0.008 - 0.76	0.006 - 0.008	5.0
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	186	1	0.5	0.027 ^	0.006 - 0.010	0.2
Orange Juice	585	0			0.003 ^	3
Plums	143	0			0.006 ^	NT
Snap Peas (V-2)	744	2	0.3	0.010 - 0.026	0.002 - 0.006	NT
Sweet Bell Peppers	741	71	9.6	0.008 - 0.55	0.008 ^	2.0
Tangerines	717	0			0.010 ^	3
Winter Squash	186	0			0.006 ^	2.0
TOTAL	8,958	127				
Oxamyl oxime (metabolite of Oxamyl)						
Baby Food - Green Beans	584	0			0.012 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 ^	0.1
Beets, Canned	756	0			0.012 - 0.020	NT
Cantaloupe	739	59	8	0.011 - 0.24	0.010 ^	2.0
Hot Peppers	553	112	20.3	0.020 - 0.90	0.012 - 0.080	5.0
Lettuce (V-2)	744	2	0.3	0.004 ^	0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	186	1	0.5	0.020 ^	0.012 - 0.060	0.2
Orange Juice	585	0			0.003 ^	3
Plums	143	0			0.012 ^	NT
Snap Peas (V-1)	372	1	0.3	0.020 ^	0.012 ^	NT
Sweet Bell Peppers	741	200	27	0.020 - 0.55	0.020 ^	2.0
Tangerines	717	0			0.010 ^	3
Winter Squash	186	0			0.012 ^	2.0
TOTAL	7,077	375				
Oxydemeton methyl (insecticide)						
Beets, Canned	383	0			0.005 ^	NT
Cantaloupe	739	0			0.010 ^	0.2
Hot Peppers	274	0			0.004 ^	0.75
Lettuce	744	20	2.7	0.002 - 0.056	0.002 ^	2.0
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.010 ^	0.05
Orange Juice	585	0			0.002 ^	1.0
Sweet Bell Peppers	741	1	0.1	0.043 ^	0.005 ^	0.75
Tangerines	717	0			0.010 ^	NT
TOTAL	4,462	21				
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.012 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	0.2
Cauliflower	186	0			0.012 ^	1.0
Hot Peppers	553	0			0.003 - 0.004	0.75
Lettuce	744	3	0.4	0.002 ^	0.002 ^	2.0
Mushrooms	186	0			0.002 ^	NT
Onion	186	0			0.003 - 0.010	0.05
Orange Juice	585	0			0.002 ^	1.0
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.012	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
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.3
TOTAL	7,096	3				
Oxyfluorfen (herbicide)						
Baby Food - Green Beans	584	0			0.008 ^	NT
Baby Food - Pears	585	0			0.003 ^	0.05
Baby Food - Sweet Potatoes	585	0			0.030 ^	NT
Beets, Canned	373	0			0.008 - 0.030	NT
Cabbage	742	0			0.083 ^	0.05
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.003 ^	0.05
Hot Peppers	279	0			0.008 ^	NT
Onion	186	0			0.008 - 0.015	0.05
Papaya	384	0			0.030 ^	0.05
Plums	143	0			0.008 ^	0.05
Snap Peas	744	0			0.001 - 0.010	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.008 ^	NT
TOTAL	6,433	0				
Parathion (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.010 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.040	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.010	NT
Sweet Bell Peppers	741	0			0.010 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	6,338	0				
Parathion methyl (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	551	0			0.002 - 0.016	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.1
Beets, Canned	756	0			0.003 - 0.061	NT
Cabbage	354	0			0.030 ^	1.0
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.016 - 0.032	NT
Hot Peppers (V-3)	279	3	1.1	0.005 ^	0.003 ^	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.009 - 0.18	1.0
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.009 ^	NT
Snap Peas	744	5	0.7	0.004 - 0.022	0.002 - 0.009	1.0
Sweet Bell Peppers	741	0			0.030 ^	NT
Tangerines	676	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.009 ^	NT
TOTAL	8,225	8				
Parathion methyl oxygen analog (metabolite of Parathion methyl)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.005 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.1
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	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
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.020 ^	NT
Mushrooms	186	0			0.020 ^	NT
Onion	93	0			0.006 ^	1.0
Orange Juice	585	0			0.020 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.003 - 0.006	1.0
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	5,273	0				
Parathion oxygen analog (metabolite of Parathion)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cabbage	742	0			0.006 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.003 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	4,500	0				
Pebulate (herbicide)						
Cantaloupe	655	0			0.010 ^	NT
Tangerines	<u>593</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,248	0				
Pendimethalin (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	0.10
Baby Food - Pears	585	0			0.002 ^	0.10
Baby Food - Sweet Potatoes	585	0			0.021 ^	NT
Beets, Canned	756	0			0.006 - 0.062	NT
Cabbage	742	0			0.088 ^	0.1
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	0.1
Cherry Tomatoes	738	0			0.007 - 0.10	0.10
Hot Peppers	553	0			0.006 - 0.10	0.10
Mushrooms	186	0			0.10 ^	NT
Onion	186	0			0.006 - 0.060	0.1
Orange Juice	585	0			0.10 ^	0.1
Plums	143	0			0.006 ^	0.10
Snap Peas	744	0			0.001 - 0.006	0.10
Sweet Bell Peppers	741	1	0.1	0.015 ^	0.015 ^	0.10
Tangerines	717	0			0.010 ^	0.1
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	8,956	1				
Pentachloroaniline - PCA (metabolite of Quintozene)						
Baby Food - Pears	585	0			0.001 ^	NT
Cabbage	742	0			0.011 ^	0.1
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	0.1
Cherry Tomatoes	738	0			0.003 - 0.019	0.1
Hot Peppers	274	0			0.050 ^	0.1
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Orange Juice	585	0			0.002 ^	NT
Snap Peas (V-1)	372	1	0.3	0.002 ^	0.001 ^	NT
Tangerines	<u>717</u>	<u>0</u>			0.010 ^	NT
TOTAL	5,868	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
Pentachlorobenzene - PCB (metabolite of Quintozene)						
Baby Food - Green Beans	584	0			0.002 ^	0.1
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	373	0			0.002 ^	NT
Cabbage	742	0			0.014 ^	0.1
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	172	0			0.008 ^	0.1
Cherry Tomatoes	738	0			0.003 - 0.011	0.1
Hot Peppers	476	0			0.002 - 0.070	0.1
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.002 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.002 ^	NT
TOTAL	8,392	0				
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)						
Baby Food - Pears	585	0			0.001 ^	NT
Cabbage	742	0			0.018 ^	0.1
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.006 ^	0.1
Cherry Tomatoes	738	0			0.004 - 0.032	0.1
Hot Peppers	259	0			0.10 ^	0.1
Lettuce	744	0			0.001 ^	NT
Mushrooms	186	0			0.001 ^	NT
Orange Juice	585	0			0.001 ^	NT
Snap Peas	372	0			0.001 ^	NT
Tangerines	717	0			0.010 ^	NT
TOTAL	5,853	0				
Permethrin Total (insecticide)						
Cantaloupe	739	0			0.020 ^	1.5
Hot Peppers	274	0			0.20 ^	NT
Onion	93	0			0.10 ^	0.10
Papaya	384	0			0.25 ^	1.0
Spinach, Canned	198	125	63.1	0.10 - 4.8	0.10 ^	20
Spinach, Frozen	198	34	17.2	0.10 - 9.1	0.10 ^	20
Tangerines	717	0			0.020 ^	NT
TOTAL	2,603	159				
Permethrin cis (isomer of Permethrin)						
Baby Food - Green Beans	584	0			0.009 ^	NT
Baby Food - Pears	585	0			0.002 - 0.008	0.05
Baby Food - Sweet Potatoes	585	0			0.015 ^	NT
Beets, Canned	756	0			0.006 - 0.015	NT
Cabbage	742	0			0.018 ^	6.0
Cauliflower	186	0			0.001 ^	0.5
Cherry Tomatoes	738	0			0.004 - 0.024	2.0
Hot Peppers (V-3)	279	3	1.1	0.015 ^	0.009 ^	NT
Lettuce	743	98	13.2	0.011 - 1.1	0.010 ^	20
Mushrooms	186	7	3.8	0.012 - 0.17	0.010 ^	5.0
Onion	93	0			0.006 ^	0.10
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas (V-35)	713	35	4.9	0.002 - 0.23	0.001 - 0.015	NT
Sweet Bell Peppers	741	57	7.7	0.003 - 0.076	0.003 ^	0.50
Winter Squash	186	1	0.5	0.010 ^	0.006 ^	1.5
TOTAL	7,845	201				

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
Permethrin trans (isomer of Permethrin)						
Baby Food - Green Beans	584	0			0.009 ^	NT
Baby Food - Pears	585	0			0.002 ^	0.05
Baby Food - Sweet Potatoes	585	0			0.015 ^	NT
Beets, Canned	756	0			0.006 - 0.015	NT
Cabbage	742	0			0.012 ^	6.0
Cauliflower	186	0			0.001 ^	0.5
Cherry Tomatoes	738	0			0.007 - 0.023	2.0
Hot Peppers (V-4)	279	4	1.4	0.015 - 0.037	0.009 ^	NT
Lettuce	744	96	12.9	0.010 - 1.2	0.010 ^	20
Mushrooms	186	6	3.2	0.015 - 0.19	0.010 ^	5.0
Onion	93	0			0.006 ^	0.10
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas (V-29)	682	29	4.3	0.002 - 0.23	0.001 - 0.060	NT
Sweet Bell Peppers	741	59	8	0.003 - 0.076	0.003 ^	0.50
Winter Squash	186	1	0.5	0.020 ^	0.006 ^	1.5
TOTAL	7,815	195				
Phenmedipham (herbicide)						
Beets, Canned	277	0			0.010 ^	0.2
Spinach, Canned	198	0			0.005 ^	4.0
Spinach, Frozen	198	1	0.5	0.006 ^	0.005 ^	4.0
Sweet Bell Peppers	554	0			0.010 ^	NT
TOTAL	1,227	1				
Phenothrin (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.01
Baby Food - Pears	585	0			0.002 - 0.016	0.01
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.01
Beets, Canned	756	0			0.003 - 0.018	0.01
Cabbage	742	0			0.011 ^	0.01
Cantaloupe	739	0			0.010 ^	0.01
Cauliflower	186	0			0.008 ^	0.01
Cherry Tomatoes	738	0			0.007 - 0.029	0.01
Hot Peppers	553	0			0.003 - 0.20	0.01
Lettuce	744	0			0.10 ^	0.01
Mushrooms	186	0			0.10 ^	0.01
Onion	186	0			0.003 - 0.080	0.01
Orange Juice	585	0			0.10 ^	0.01
Papaya	384	0			0.14 ^	0.01
Plums	143	0			0.003 ^	0.01
Snap Peas	744	0			0.002 - 0.008	0.01
Spinach, Canned	198	0			0.020 ^	0.01
Spinach, Frozen	198	0			0.020 ^	0.01
Sweet Bell Peppers	741	0			0.025 ^	0.01
Tangerines	717	0			0.010 ^	0.01
Winter Squash	186	0			0.003 ^	0.01
TOTAL	10,480	0				
Phenthoate (insecticide)						
Baby Food - Pears	585	0			0.006 ^	NT
Cauliflower	186	0			0.001 ^	NT
Snap Peas	372	0			0.001 - 0.006	NT
TOTAL	1,143	0				
o-Phenylphenol (fungicide)						
Baby Food - Green Beans	33	0			0.003 ^	NT
Baby Food - Pears	585	18	3.1	0.005 - 0.011	0.003 ^	25.0
Baby Food - Sweet Potatoes	585	0			0.012 ^	15
Hot Peppers	62	0			0.003 ^	NT
Mushrooms (V-6)	186	6	3.2	0.015 - 0.086	0.010 ^	NT
Onion	93	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
Orange Juice	585	0			0.010 ^	10
Plums	143	0			0.003 ^	20
Snap Peas	61	0			0.003 ^	NT
Sweet Bell Peppers	741	4	0.5	0.020 - 0.030	0.010 ^	10
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	3,260	28				
Phorate (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.05
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.020 ^	NT
Mushrooms	186	0			0.020 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.020 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.002 - 0.003	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	6,729	0				
Phorate oxygen analog (metabolite of Phorate)						
Baby Food - Green Beans	584	0			0.003 ^	0.05
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.001 - 0.003	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	5,273	0				
Phorate sulfone (metabolite of Phorate)						
Baby Food - Green Beans	584	0			0.003 ^	0.05
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.020 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas (V-1)	744	1	0.1	0.005 ^	0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	6,012	1				
Phorate sulfoxide (metabolite of Phorate)						
Baby Food - Green Beans	584	0			0.003 ^	0.05
Baby Food - Pears	585	0			0.009 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	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
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas (V-2)	744	2	0.3	0.005 - 0.015	0.002 - 0.009	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	6,729	2				
Phosalone (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	10.0
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.026	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	15.0
Snap Peas	744	0			0.002 - 0.003	NT
Sweet Bell Peppers	741	0			0.026 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	6,338	0				
Phosmet (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	2	0.3	0.008 - 0.019	0.005 ^	10
Baby Food - Sweet Potatoes	585	0			0.003 ^	12
Beets, Canned	756	0			0.003 - 0.049	NT
Cabbage	742	0			0.006 ^	NT
Cantaloupe	718	0			0.010 ^	NT
Hot Peppers	538	0			0.003 - 0.090	NT
Lettuce	744	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	186	0			0.003 - 0.15	NT
Orange Juice	552	0			0.010 ^	5
Papaya	384	0			0.040 ^	NT
Plums	143	22	15.4	0.005 - 0.037	0.003 ^	5
Snap Peas	744	0			0.001 - 0.005	1
Spinach, Canned	198	0			0.064 ^	NT
Spinach, Frozen	198	0			0.064 ^	NT
Sweet Bell Peppers	741	0			0.049 ^	NT
Tangerines	661	0			0.010 ^	5
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	9,431	24				
Phosmet oxygen analog (metabolite of Phosmet)						
Beets, Canned	383	0			0.006 ^	NT
Cabbage	742	0			0.001 - 0.12	NT
Cherry Tomatoes	738	0			0.002 ^	NT
Hot Peppers	274	0			0.010 ^	NT
Mushrooms	186	0			0.020 ^	NT
Onion	93	0			0.010 ^	NT
Papaya	384	0			0.010 ^	NT
Spinach, Canned	198	0			0.010 ^	NT
Spinach, Frozen	198	0			0.010 ^	NT
Sweet Bell Peppers	<u>741</u>	<u>0</u>			0.006 ^	NT
TOTAL	3,937	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
Phosphamidon (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 - 0.040	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.006	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	5,214	0				
Piperonyl butoxide (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	8
Baby Food - Pears	585	0			0.005 ^	8
Baby Food - Sweet Potatoes	585	0			0.009 ^	0.25
Beets, Canned	756	0			0.002 - 0.010	10
Cabbage	742	0			0.017 ^	10
Cantaloupe	739	0			0.010 ^	8
Cauliflower	186	0			0.015 ^	10
Cherry Tomatoes	738	1	0.1	0.007 ^	0.004 - 0.030	8
Hot Peppers	553	1	0.2	0.004 ^	0.002 - 0.060	10
Lettuce	744	0			0.010 ^	10
Mushrooms	186	11	5.9	0.014 - 0.55	0.010 ^	10
Onion	186	0			0.003 - 0.075	10
Orange Juice	585	0			0.010 ^	8
Papaya	384	0			0.030 ^	10
Plums	143	0			0.003 ^	8
Snap Peas	744	21	2.8	0.004 - 0.13	0.002 - 0.005	8
Spinach, Canned	198	0			0.020 ^	10
Spinach, Frozen	198	0			0.020 ^	10
Sweet Bell Peppers	741	5	0.7	0.001 - 0.017	0.001 ^	10
Tangerines	717	0			0.010 ^	10
Winter Squash	186	1	0.5	0.066 ^	0.003 ^	10
TOTAL	10,480	40				
Pirimicarb (insecticide)						
Baby Food - Green Beans	584	0			0.012 ^	NT
Baby Food - Pears	585	0			0.010 ^	NT
Baby Food - Sweet Potatoes	585	0			0.012 ^	NT
Beets, Canned	373	0			0.012 ^	NT
Cantaloupe	739	0			0.005 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.012 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.001 - 0.012	NT
Tangerines	717	0			0.005 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	5,214	0				
Pirimiphos methyl (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Mushrooms	186	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
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.001 - 0.003	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	5,400	0				
Prallethrin (insecticide)						
Baby Food - Green Beans	584	0			0.012 ^	1.0
Baby Food - Sweet Potatoes	585	0			0.012 ^	1.0
Beets, Canned	756	0			0.012 - 0.10	1
Cabbage	742	0			0.072 ^	1.0
Cantaloupe	429	0			0.010 ^	1.0
Cherry Tomatoes	738	0			0.030 - 0.20	1.0
Hot Peppers	553	0			0.012 - 0.090	1.0
Lettuce	713	0			0.002 ^	1.0
Mushrooms	186	0			0.002 ^	1.0
Onion	186	0			0.012 - 0.050	1.0
Orange Juice	585	0			0.002 ^	1.0
Papaya	384	0			0.050 ^	1
Plums	143	0			0.012 ^	1.0
Snap Peas	372	0			0.012 ^	1
Spinach, Canned	198	0			0.080 ^	1.0
Spinach, Frozen	198	0			0.080 ^	1.0
Sweet Bell Peppers	741	0			0.050 ^	1.0
Tangerines	401	0			0.010 ^	1
Winter Squash	<u>186</u>	<u>0</u>			0.012 ^	1.0
TOTAL	8,680	0				
Prochloraz (fungicide)						
Cantaloupe	739	0			0.010 ^	NT
Tangerines (V-1)	<u>696</u>	<u>1</u>	0.1	0.082 ^	0.010 ^	NT
TOTAL	1,435	1				
Procymidone (fungicide)						
Beets, Canned	383	0			0.010 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Sweet Bell Peppers	741	0			0.003 ^	NT
Tangerines	<u>717</u>	<u>0</u>			0.010 ^	NT
TOTAL	2,580	0				
Profenofos (insecticide)						
Baby Food - Pears (V-1)	585	1	0.2	0.003 ^	0.002 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Snap Peas (V-22)	372	22	5.9	0.003 - 0.15	0.002 ^	NT
Tangerines	<u>717</u>	<u>0</u>			0.010 ^	NT
TOTAL	2,599	23				
Promecarb (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	2,615	0				
Prometryn (herbicide)						
Baby Food - Green Beans	584	0			0.004 ^	NT
Baby Food - Pears	585	0			0.007 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Baby Food - Sweet Potatoes	585	0			0.015 ^	NT
Beets, Canned	373	0			0.004 - 0.015	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.004 ^	NT
Onion	93	0			0.005 ^	NT
Plums	143	0			0.005 ^	NT
Snap Peas	744	0			0.001 - 0.007	NT
Winter Squash	<u>186</u>	<u>0</u>			0.005 ^	NT
TOTAL	3,758	0				
Pronamide (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.006 ^	0.1
Baby Food - Sweet Potatoes	585	0			0.008 ^	NT
Beets, Canned	756	0			0.006 - 0.046	NT
Cantaloupe	698	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce	465	0			0.002 ^	1.0
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	354	0			0.002 ^	NT
Plums	143	0			0.002 ^	0.1
Snap Peas	744	0			0.001 - 0.006	0.05
Sweet Bell Peppers	741	0			0.010 ^	NT
Tangerines	696	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	7,281	0				
Propachlor (herbicide)						
Cauliflower	170	0			0.003 ^	NT
Snap Peas	<u>356</u>	<u>0</u>			0.001 - 0.002	NT
TOTAL	526	0				
Propamocarb hydrochloride ⁴ (fungicide)						
Baby Food - Green Beans (V-19)	584	19	3.3	0.010 - 0.28	0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 ^	NT
Cantaloupe	739	0			0.010 ^	1.5
Cherry Tomatoes	629	23	3.7	0.003 - 0.36	0.002 ^	2.0
Hot Peppers	492	20	4.1	0.006 - 0.15	0.004 - 0.006	2.0
Lettuce	744	164	22	0.003 - 18	0.003 ^	90
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas (V-18)	372	18	4.8	0.010 - 1.3	0.006 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>22</u>	11.8	0.010 - 0.83	0.006 ^	1.5
TOTAL	6,428	266				
Propargite (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.026 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.022	NT
Cantaloupe	739	0			0.040 ^	NT
Cauliflower	186	0			0.020 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.025 ^	NT
Mushrooms	186	0			0.025 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.025 ^	10.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.088	NT
Sweet Bell Peppers	741	0			0.015 ^	NT
Tangerines	717	0			0.040 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	7,853	0				
Propetamphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.1
Baby Food - Pears	585	0			0.002 ^	0.1
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.1
Beets, Canned	756	0			0.003 - 0.010	0.1
Cantaloupe	739	0			0.010 ^	0.1
Cauliflower	186	0			0.002 ^	0.1
Hot Peppers	279	0			0.003 ^	0.1
Lettuce	744	0			0.010 ^	0.1
Mushrooms	186	0			0.010 ^	0.1
Onion	186	0			0.003 - 0.030	0.1
Orange Juice	585	0			0.010 ^	0.1
Papaya	384	0			0.016 ^	0.1
Plums	143	0			0.003 ^	0.1
Snap Peas	744	0			0.002 - 0.003	0.1
Spinach, Canned	198	0			0.010 ^	0.1
Spinach, Frozen	198	0			0.010 ^	0.1
Sweet Bell Peppers	741	0			0.010 ^	0.1
Tangerines	717	0			0.010 ^	0.1
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.1
TOTAL	8,726	0				
Propham (herbicide)						
Baby Food - Green Beans	584	0			0.004 ^	NT
Baby Food - Sweet Potatoes	585	0			0.015 ^	NT
Beets, Canned	280	0			0.004 - 0.050	NT
Hot Peppers	279	0			0.004 ^	NT
Onion	93	0			0.005 ^	NT
Plums	143	0			0.005 ^	NT
Snap Peas	372	0			0.004 - 0.005	NT
Winter Squash	186	0			0.005 ^	NT
TOTAL	2,522	0				
Propiconazole (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.008 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.018	0.3
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.008 ^	NT
Hot Peppers (V-1)	279	1	0.4	0.010 ^	0.006 ^	NT
Mushrooms	186	0			0.010 ^	0.1
Onion	186	0			0.006 - 0.15	0.2
Plums	143	15	10.5	0.010 - 0.12	0.006 ^	1.0
Snap Peas	744	0			0.006 - 0.008	NT
Sweet Bell Peppers	741	0			0.018 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	6,617	16				
Pymetrozine (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.02
Beets, Canned	756	0			0.002 - 0.007	NT
Cabbage	742	0			0.002 - 0.003	0.5
Cantaloupe	718	0			0.010 ^	0.1

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Cauliflower	186	0			0.005 ^	0.5
Cherry Tomatoes	738	16	2.2	0.008 - 0.033	0.005 ^	0.2
Hot Peppers	279	0			0.002 ^	0.2
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	743	0			0.002 - 0.015	NT
Sweet Bell Peppers	741	3	0.4	0.008 - 0.010	0.007 ^	0.2
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.1
TOTAL	6,494	19				
Pyraclostrobin (fungicide)						
Baby Food - Green Beans	584	0			0.002 ^	0.5
Baby Food - Pears	585	0			0.001 - 0.004	1.5
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.04
Beets, Canned	756	0			0.001 - 0.002	0.4
Cabbage	742	1	0.1	0.005 ^	0.002 - 0.003	5.0
Cantaloupe	739	0			0.003 ^	0.5
Cauliflower	186	0			0.004 ^	5.0
Cherry Tomatoes	738	151	20.5	0.002 - 0.13	0.001 ^	1.4
Hot Peppers	553	37	6.7	0.002 - 0.22	0.002 ^	1.4
Lettuce	744	31	4.2	0.005 - 1.4	0.003 ^	29.0
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.002 - 0.005	0.9
Orange Juice	585	0			0.003 ^	2.0
Papaya	364	8	2.2	0.002 - 0.008	0.002 ^	0.6
Plums	143	25	17.5	0.003 - 0.027	0.002 ^	2.5
Snap Peas	744	17	2.3	0.002 - 0.020	0.001 - 0.002	0.5
Spinach, Canned	198	8	4	0.007 - 0.23	0.005 ^	29.0
Spinach, Frozen	198	27	13.6	0.007 - 3.7	0.005 ^	29.0
Sweet Bell Peppers	741	134	18.1	0.001 - 0.19	0.001 ^	1.4
Tangerines	717	2	0.3	0.003 - 0.004	0.003 ^	2.0
Winter Squash	<u>186</u>	<u>12</u>	6.5	0.003 - 0.009	0.002 ^	0.5
TOTAL	10,460	453				
Pyraflufen ethyl (herbicide)						
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	0.01
Snap Peas	93	0			0.002 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	515	0				
Pyrethrins (insecticide)						
Beets, Canned	383	0			0.20 ^	1
Cabbage	742	0			0.22 ^	1.0
Cherry Tomatoes	738	0			0.30 - 0.62	1.0
Sweet Bell Peppers	<u>741</u>	<u>0</u>			0.10 ^	1.0
TOTAL	2,604	0				
Pyridaben (insecticide, acaricide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	756	0			0.001 - 0.002	NT
Cantaloupe	739	0			0.010 ^	NT
Cherry Tomatoes	738	0			0.045 - 0.073	0.15
Hot Peppers	279	0			0.002 ^	NT
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.005 ^	0.5
Papaya	384	0			0.10 ^	0.10
Plums	143	0			0.002 ^	2.5
Snap Peas	372	0			0.002 ^	NT
Sweet Bell Peppers (V-1)	741	1	0.1	0.004 ^	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
Tangerines	717	0			0.010 ^	0.5
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	7,088	1				
Pyridalyl (insecticide)						
Cherry Tomatoes	738	0			0.007 - 0.089	1.0
Hot Peppers	274	0			0.10 ^	1
Lettuce	744	0			0.020 ^	20
Mushrooms	186	0			0.020 ^	NT
Orange Juice	585	0			0.020 ^	NT
Spinach, Canned	198	0			0.040 ^	20
Spinach, Frozen	<u>198</u>	<u>0</u>			0.040 ^	20
TOTAL	2,923	0				
Pyrimethanil (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	355	60.7	0.002 - 0.31	0.001 ^	14
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.05
Beets, Canned	756	0			0.002 - 0.003	NT
Cantaloupe	739	0			0.003 ^	NT
Cauliflower	186	0			0.001 ^	NT
Cherry Tomatoes	738	14	1.9	0.048 - 0.30	0.029 - 0.10	0.50
Hot Peppers	279	0			0.003 ^	NT
Mushrooms	186	0			0.10 ^	NT
Onion	186	0			0.003 - 0.050	0.10
Orange Juice	585	0			0.10 ^	10
Plums	143	19	13.3	0.005 - 0.14	0.003 ^	10
Snap Peas (V-9)	744	9	1.2	0.002 - 0.069	0.001 - 0.003	NT
Sweet Bell Peppers (V-2)	741	2	0.3	0.48 - 0.71	0.002 ^	NT
Tangerines	717	47	6.6	0.003 - 0.36	0.003 ^	10
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	7,940	446				
Pyriproxyfen (insecticide, growth regulator)						
Baby Food - Green Beans	584	0			0.002 ^	0.20
Baby Food - Pears	585	0			0.013 ^	0.2
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.15
Beets, Canned	756	0			0.002 ^	0.15
Cabbage	742	0			0.024 ^	0.70
Cantaloupe	739	0			0.010 ^	0.10
Cauliflower	186	0			0.003 ^	0.70
Cherry Tomatoes	738	4	0.5	0.048 - 0.078	0.029 - 0.047	0.2
Hot Peppers	553	2	0.4	0.003 ^	0.002 - 0.004	0.2
Lettuce	744	0			0.001 ^	3.0
Mushrooms	186	0			0.001 ^	0.10
Onion	186	0			0.002 - 0.005	0.15
Orange Juice	585	0			0.001 ^	0.3
Papaya	364	0			0.002 ^	1.0
Plums	143	0			0.002 ^	1.0
Snap Peas	744	0			0.002 - 0.013	0.20
Spinach, Canned	198	0			0.010 ^	3.0
Spinach, Frozen	198	0			0.010 ^	3.0
Sweet Bell Peppers	741	7	0.9	0.004 - 0.086	0.002 ^	0.2
Tangerines	717	0			0.010 ^	0.3
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.10
TOTAL	10,460	13				
Quinalphos (insecticide)						
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	93	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	515	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
Quinoxifen (fungicide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	373	0			0.002 ^	NT
Cantaloupe	739	2	0.3	0.017 - 0.022	0.010 ^	0.08
Cauliflower	186	0			0.004 ^	NT
Hot Peppers	553	21	3.8	0.002 - 0.029	0.002 ^	1.7
Lettuce	744	2	0.3	0.013 - 0.039	0.010 ^	19
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.002 ^	0.70
Snap Peas	744	0			0.001 - 0.002	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	4	2.2	0.003 ^	0.002 ^	0.20
TOTAL	7,003	29				
Quintozene - PCNB (fungicide) (parent of HCB, PCA, PCB and PCPMS)						
Baby Food - Green Beans	584	0			0.003 ^	0.1
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.021	NT
Cabbage	742	0			0.040 ^	0.1
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	0.1
Cherry Tomatoes	738	0			0.003 - 0.050	0.1
Hot Peppers	553	0			0.003 - 0.070	0.1
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.003 - 0.010	NT
Snap Peas	744	0			0.001 - 0.003	NT
Sweet Bell Peppers	741	0			0.021 ^	0.1
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	9,607	0				
Quizalofop ethyl (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	0.25
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	0.3
Winter Squash	186	0			0.006 ^	NT
TOTAL	2,615	0				
Resmethrin (insecticide)						
Beets, Canned	383	0			0.037 ^	3.0
Cantaloupe	739	0			0.040 ^	3.0
Hot Peppers	274	0			0.080 ^	3.0
Onion	186	0			0.006 - 0.050	3.0
Papaya	384	0			0.020 ^	3.0
Plums	116	0			0.006 ^	3.0
Snap Peas	93	0			0.006 ^	3.0
Spinach, Canned	198	0			0.020 ^	3.0
Spinach, Frozen	198	0			0.020 ^	3.0
Sweet Bell Peppers	619	0			0.18 - 0.36	3.0
Tangerines	717	0			0.040 ^	3.0
Winter Squash	157	0			0.006 ^	3.0
TOTAL	4,064	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
Resmethrin-c (isomer of Resmethrin)						
Baby Food - Pears	585	0			0.002 - 0.016	3.0
Cabbage	742	0			0.020 ^	3.0
Cauliflower	186	0			0.008 ^	3.0
Cherry Tomatoes	738	0			0.027 - 0.053	3.0
Lettuce	124	0			0.10 ^	3.0
Mushrooms	186	0			0.10 ^	3.0
Orange Juice	552	0			0.10 ^	3.0
Snap Peas	372	0			0.002 ^	3.0
TOTAL	3,485	0				
Resmethrin-t (isomer of Resmethrin)						
Baby Food - Green Beans	98	0			0.009 ^	3.0
Baby Food - Sweet Potatoes	585	0			0.030 ^	3.0
Beets, Canned	249	0			0.030 ^	3.0
Cabbage	742	0			0.024 ^	3.0
Cauliflower	186	0			0.002 ^	3.0
Cherry Tomatoes	738	0			0.003 - 0.033	3.0
Lettuce	124	0			0.10 ^	3.0
Mushrooms	186	0			0.10 ^	3.0
Orange Juice	552	0			0.10 ^	3.0
Snap Peas	93	0			0.002 ^	3.0
TOTAL	3,553	0				
Rimsulfuron (herbicide)						
Mushrooms	186	0			0.010 ^	NT
Orange Juice	585	0			0.010 ^	0.01
Plums	143	0			0.006 ^	0.01
TOTAL	914	0				
Saflufenacil (herbicide)						
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.010 ^	0.03
Plums	143	0			0.006 ^	0.03
Snap Peas	93	0			0.006 ^	0.03
Winter Squash	186	0			0.006 ^	NT
TOTAL	1,286	0				
Sethoxydim (herbicide)						
Baby Food - Green Beans	584	0			0.003 ^	15
Baby Food - Sweet Potatoes	585	0			0.003 ^	4.0
Beets, Canned	756	0			0.003 - 0.007	4
Hot Peppers	279	0			0.003 ^	4.0
Lettuce	744	0			0.003 ^	4.0
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.003 - 0.005	1.0
Orange Juice	585	0			0.003 ^	0.5
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	10
Sweet Bell Peppers	741	0			0.007 ^	4.0
Winter Squash	186	0			0.003 ^	4.0
TOTAL	5,347	0				
Sethoxydim sulfoxide (herbicide metabolite)						
Plums	143	0			0.003 ^	NT
Snap Peas	93	4	4.3	0.005 - 0.018	0.003 ^	10
Winter Squash	186	1	0.5	0.042 ^	0.003 ^	4.0
TOTAL	422	5				
Simazine (herbicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	0.25

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 - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	756	0			0.003 - 0.005	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.005 ^	0.25
Plums	143	0			0.003 ^	0.20
Snap Peas	744	0			0.001 - 0.003	NT
Sweet Bell Peppers	741	0			0.005 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	5,653	0				
Spinetoram (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	0.04
Baby Food - Pears	585	149	25.5	0.002 - 0.014	0.001 - 0.003	0.20
Baby Food - Sweet Potatoes	585	0			0.006 ^	0.1
Beets, Canned	756	0			0.005 - 0.006	0.1
Cabbage	742	0			0.006 - 0.021	2.0
Cauliflower	186	0			0.001 ^	2.0
Cherry Tomatoes	738	0			0.020 ^	0.40
Hot Peppers	279	0			0.006 ^	0.4
Mushrooms	186	0			0.005 ^	NT
Onion	93	0			0.006 ^	0.10
Orange Juice	585	0			0.005 ^	0.30
Plums	143	0			0.006 ^	0.20
Snap Peas	744	34	4.6	0.002 - 0.028	0.001 - 0.006	0.30
Sweet Bell Peppers	741	9	1.2	0.006 - 0.009	0.005 ^	0.40
Winter Squash	186	0			0.006 ^	0.30
TOTAL	7,133	192				
Spinosad (insecticide) (total of spinosyns A and D)						
Baby Food - Pears	585	66	11.3	0.002 - 0.012	0.001 ^	0.20
Cabbage	742	0			0.006 - 0.007	2.0
Cauliflower	186	0			0.001 ^	2.0
Cherry Tomatoes	738	3	0.4	0.050 ^	0.030 ^	0.4
Onion	93	0			0.010 ^	0.10
Papaya	363	0			0.016 ^	0.3
Snap Peas	372	12	3.2	0.002 - 0.063	0.001 - 0.006	0.30
Spinach, Canned	198	2	1	0.068 - 0.075	0.016 ^	8.0
Spinach, Frozen	88	6	6.8	0.016 - 0.16	0.016 ^	8.0
TOTAL	3,365	89				
Spinosad A (isomer of Spinosad)						
Baby Food - Green Beans	584	0			0.002 ^	0.30
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.10
Beets, Canned	756	0			0.002 - 0.005	0.1
Cantaloupe	739	0			0.002 ^	0.3
Hot Peppers	279	1	0.4	0.010 ^	0.002 ^	0.4
Mushrooms	186	0			0.005 ^	0.02
Onion	93	0			0.002 ^	0.10
Orange Juice	585	0			0.005 ^	0.3
Plums	143	1	0.7	0.009 ^	0.002 ^	0.20
Snap Peas	372	11	3	0.003 - 0.029	0.002 ^	0.30
Sweet Bell Peppers	741	12	1.6	0.005 - 0.041	0.005 ^	0.4
Tangerines	717	0			0.002 ^	0.3
Winter Squash	186	0			0.002 ^	0.3
TOTAL	5,966	25				
Spinosad D (isomer of Spinosad)						
Baby Food - Green Beans	584	0			0.002 ^	0.30
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.10
Beets, Canned	756	0			0.002 - 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
Cantaloupe	739	0			0.002 ^	0.3
Hot Peppers	279	1	0.4	0.003 ^	0.002 ^	0.4
Mushrooms	186	0			0.005 ^	0.02
Onion	93	0			0.002 ^	0.10
Orange Juice	585	0			0.005 ^	0.3
Plums	143	1	0.7	0.003 ^	0.002 ^	0.20
Snap Peas	372	3	0.8	0.003 ^	0.002 ^	0.30
Sweet Bell Peppers	741	2	0.3	0.005 - 0.006	0.005 ^	0.4
Tangerines	717	0			0.002 ^	0.3
Winter Squash	186	0			0.002 ^	0.3
TOTAL	5,966	7				
Spirodiclofen (acaricide)						
Beets, Canned	383	0			0.006 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.010 ^	0.50
Plums	143	11	7.7	0.005 - 0.039	0.003 ^	1.0
Snap Peas	93	0			0.003 ^	NT
Sweet Bell Peppers	741	0			0.006 ^	NT
Tangerines	717	0			0.010 ^	0.50
Winter Squash	186	0			0.003 ^	NT
TOTAL	3,866	11				
Spiromesifen Total (parent + enol metabolite) (insecticide)						
Baby Food - Pears	585	0			0.006 ^	NT
Cauliflower	186	0			0.006 ^	2.0
Snap Peas (V-1)	372	1	0.3	0.010 ^	0.006 - 0.020	NT
TOTAL	1,143	1				
Spiromesifen (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.10
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.02
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.002 ^	0.10
Cherry Tomatoes	738	10	1.4	0.048 - 0.25	0.029 ^	0.45
Hot Peppers	413	5	1.2	0.005 - 0.014	0.003 - 0.20	0.45
Lettuce	744	0			0.002 ^	12
Mushrooms	186	0			0.002 ^	NT
Onion	186	0			0.003 - 0.10	0.09
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Spinach, Canned	198	0			0.040 ^	12
Spinach, Frozen	198	0			0.040 ^	12
Tangerines	717	0			0.002 ^	NT
Winter Squash	186	0			0.003 ^	0.10
TOTAL	6,947	15				
Spirotetramat (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.6
Beets, Canned	373	0			0.002 ^	NT
Cabbage	742	0			0.002 - 0.003	2.5
Cherry Tomatoes	738	1	0.1	0.050 ^	0.030 ^	2.5
Hot Peppers	553	5	0.9	0.003 - 0.009	0.002 ^	2.5
Lettuce	744	50	6.7	0.002 - 0.28	0.002 ^	9.0
Mushrooms	186	0			0.002 ^	NT
Onion	186	0			0.002 - 0.005	0.30
Orange Juice	585	0			0.002 ^	0.60
Plums	143	14	9.8	0.003 - 0.010	0.002 ^	4.5
Snap Peas	372	0			0.002 ^	2.5

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
Spinach, Canned	198	0			0.002 ^	9.0
Spinach, Frozen	198	0			0.002 ^	9.0
Winter Squash	186	0			0.002 ^	0.30
TOTAL	6,373	70				
Sulfentrazone (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 - 0.035	NT
Cabbage	742	0			0.015 - 0.031	0.20
Hot Peppers	279	0			0.006 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Sweet Bell Peppers	741	0			0.035 ^	NT
Winter Squash	186	0			0.006 ^	NT
TOTAL	4,481	0				
Sulprofos (insecticide)						
Baby Food - Pears	585	0			0.002 ^	NT
Cauliflower	186	0			0.002 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	465	0			0.002 - 0.003	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	1,658	0				
Tebuconazole (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	0.1
Baby Food - Pears	585	0			0.002 ^	0.05
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 ^	0.7
Cantaloupe	739	0			0.010 ^	0.09
Cauliflower	186	0			0.002 ^	NT
Cherry Tomatoes	738	3	0.4	0.004 - 0.041	0.003 ^	1.3
Hot Peppers	279	0			0.006 ^	1.3
Onion	186	0			0.005 - 0.006	0.2
Plums	143	1	0.7	0.010 ^	0.006 ^	1.0
Snap Peas (V-44)	744	44	5.9	0.003 - 0.099	0.002 - 0.006	NT
Sweet Bell Peppers	741	5	0.7	0.006 - 0.011	0.006 ^	1.3
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	1	0.5	0.010 ^	0.006 ^	0.09
TOTAL	7,169	54				
Tebufenozide (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.003 - 0.050	1.5
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.015
Beets, Canned	756	0			0.003 ^	0.3
Cabbage	742	0			0.002 - 0.003	5.0
Cantaloupe	739	0			0.005 ^	NT
Cauliflower	186	0			0.010 ^	5.0
Cherry Tomatoes	738	0			0.005 ^	1.0
Hot Peppers	553	1	0.2	0.005 ^	0.003 - 0.040	1.0
Lettuce	744	0			0.002 ^	10.0
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.002 ^	0.80
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 - 0.020	NT
Spinach, Canned	198	0			0.32 ^	10.0
Spinach, Frozen	198	0			0.32 ^	10.0
Sweet Bell Peppers	741	16	2.2	0.004 - 0.23	0.003 ^	1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Tangerines	717	0			0.005 ^	0.80
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	10,003	17				
Tebuthiuron (herbicide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	373	0			0.002 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.002 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.001 - 0.002	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	3,758	0				
Tecnazene (plant growth regulator)						
Baby Food - Pears	585	0			0.005 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	158	0			0.003 ^	NT
Snap Peas	372	0			0.001 - 0.005	NT
Tangerines	<u>717</u>	<u>0</u>			0.010 ^	NT
TOTAL	2,571	0				
Tefluthrin (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.006 ^	NT
Cabbage	742	0			0.036 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	NT
Cherry Tomatoes	738	0			0.004 - 0.046	NT
Hot Peppers	553	0			0.006 - 0.030	NT
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	186	0			0.003 - 0.025	NT
Orange Juice	585	0			0.002 ^	NT
Papaya	384	0			0.020 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.001 - 0.006	NT
Spinach, Canned	198	0			0.020 ^	NT
Spinach, Frozen	198	0			0.020 ^	NT
Sweet Bell Peppers	741	0			0.001 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	10,480	0				
Terbacil (herbicide)						
Baby Food - Green Beans	584	0			0.008 ^	NT
Baby Food - Pears	585	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.030 ^	NT
Beets, Canned	342	0			0.008 - 0.10	NT
Cantaloupe	739	0			0.015 ^	NT
Cauliflower	186	0			0.010 ^	NT
Hot Peppers	279	0			0.008 ^	NT
Onion	93	0			0.008 ^	NT
Plums	143	0			0.008 ^	NT
Snap Peas	744	0			0.003 - 0.008	NT
Tangerines	717	0			0.015 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.008 ^	NT
TOTAL	5,183	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
Terbufos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.002 - 0.003	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	4,497	0				
Terbufos sulfone (metabolite of Terbufos)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.002 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	3,758	0				
Tetrachlorvinphos (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	0			0.003 ^	NT
Beets, Canned	373	0			0.003 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	3,758	0				
Tetraconazole (fungicide)						
Baby Food - Pears	585	0			0.001 ^	NT
Cauliflower	186	0			0.001 ^	NT
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	465	0			0.001 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	1,658	0				
Tetradifon (insecticide)						
Baby Food - Green Beans	584	0			0.005 ^	NT
Baby Food - Pears	585	0			0.010 ^	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.005 - 0.010	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.002 ^	NT
Hot Peppers	279	0			0.005 ^	NT
Lettuce	744	0			0.002 ^	NT
Mushrooms	186	0			0.002 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.002 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.002 - 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
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	7,112	0				
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)						
Baby Food - Green Beans	584	0			0.009 ^	0.05
Baby Food - Pears	569	0			0.020 ^	25.0
Baby Food - Sweet Potatoes	585	0			0.090 ^	0.05
Beets, Canned	62	0			0.009 - 0.030	0.05
Cauliflower	186	0			0.012 ^	0.05
Hot Peppers (X-1)	553	5	0.9	0.015 - 0.065	0.009 - 0.20	0.05
Lettuce	744	0			0.010 ^	0.05
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.009 ^	0.05
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.009 ^	10.0
Snap Peas (X-13)	744	70	9.4	0.006 - 0.37	0.004 - 0.020	0.05
Winter Squash	<u>186</u>	<u>2</u>	1.1	0.015 - 0.042	0.009 ^	0.05
TOTAL	5,220	77				
Tetramethrin (insecticide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Sweet Potatoes	585	0			0.030 ^	NT
Beets, Canned	756	0			0.006 - 0.030	NT
Cabbage	742	0			0.096 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cherry Tomatoes	738	0			0.006 - 0.099	NT
Hot Peppers	93	0			0.006 - 0.020	NT
Lettuce	744	0			0.005 ^	NT
Mushrooms	186	0			0.005 ^	NT
Onion	186	0			0.003 - 0.10	NT
Orange Juice	585	0			0.005 ^	NT
Papaya	384	0			0.080 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 - 0.006	NT
Spinach, Canned	198	0			0.020 ^	NT
Spinach, Frozen	198	0			0.020 ^	NT
Sweet Bell Peppers	741	0			0.004 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	8,877	0				
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Pears	585	100	17.1	0.002 - 0.90	0.001 ^	5.0
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.05
Beets, Canned	756	0			0.003 - 0.006	NT
Cabbage	742	0			0.003 - 0.007	0.05
Cantaloupe	739	1	0.1	0.018 ^	0.010 ^	15.0
Cauliflower	186	0			0.001 ^	NT
Hot Peppers	279	0			0.003 ^	NT
Lettuce	744	0			0.003 ^	NT
Mushrooms	186	108	58.1	0.003 - 2.0	0.003 ^	40.0
Onion	93	0			0.003 ^	NT
Orange Juice	585	56	9.6	0.003 - 0.044	0.003 ^	10.0
Papaya	383	10	2.6	0.15 - 0.45	0.15 ^	5.0
Plums (V-1)	143	1	0.7	0.005 ^	0.003 ^	NT
Snap Peas (V-5)	744	5	0.7	0.002 - 0.49	0.001 - 0.003	NT
Sweet Bell Peppers	741	0			0.006 ^	NT
Tangerines	715	540	75.5	0.011 - 0.68	0.010 ^	10.0
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	8,976	821				

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
Thiacloprid (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Pears	585	77	13.2	0.002 - 0.029	0.001 - 0.003	0.30
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	756	0			0.002 - 0.005	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.001 ^	NT
Hot Peppers (V-8)	279	8	2.9	0.003 - 0.11	0.002 ^	NT
Onion	93	0			0.002 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas (V-21)	744	21	2.8	0.002 - 0.065	0.001 - 0.002	NT
Sweet Bell Peppers	741	0			0.005 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	6,338	106				
Thiamethoxam (insecticide) (also a parent of Clothianidin)						
Baby Food - Green Beans	584	0			0.002 ^	0.02
Baby Food - Pears	585	0			0.005 - 0.015	0.2
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.02
Beets, Canned	756	0			0.002 - 0.010	0.05
Cabbage	739	12	1.6	0.010 ^	0.006 ^	4.5
Cantaloupe	739	5	0.7	0.012 - 0.028	0.010 ^	0.2
Cauliflower	186	4	2.2	0.008 ^	0.005 ^	4.5
Cherry Tomatoes	738	60	8.1	0.003 - 0.067	0.002 ^	0.25
Hot Peppers	553	92	16.6	0.003 - 0.086	0.002 - 0.040	0.25
Lettuce	744	22	3	0.003 - 0.045	0.003 ^	4.0
Mushrooms	186	0			0.003 ^	0.02
Onion	186	0			0.002 - 0.080	0.03
Orange Juice	585	0			0.003 ^	0.40
Papaya	384	0			0.020 ^	0.40
Plums	143	0			0.002 ^	0.5
Snap Peas (X-4)	744	16	2.2	0.003 - 0.12	0.002 - 0.005	0.02
Spinach, Canned	198	0			0.080 ^	4.0
Spinach, Frozen	198	0			0.080 ^	4.0
Sweet Bell Peppers	741	127	17.1	0.010 - 0.17	0.010 ^	0.25
Tangerines	717	0			0.010 ^	0.40
Winter Squash	<u>186</u>	<u>10</u>	5.4	0.003 - 0.006	0.002 ^	0.2
TOTAL	10,477	348				
Thiazopyr (herbicide)						
Mushrooms	186	0			0.008 ^	NT
Orange Juice	<u>585</u>	<u>0</u>			0.008 ^	0.05
TOTAL	771	0				
Thiobencarb (herbicide)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.001 - 0.003	NT
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	373	0			0.006 ^	NT
Cauliflower	186	0			0.003 ^	NT
Hot Peppers	279	0			0.006 ^	NT
Lettuce	741	0			0.010 ^	0.2
Mushrooms	186	0			0.010 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.010 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.001 - 0.006	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	5,270	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
Thiodicarb (insecticide)						
Baby Food - Green Beans	584	0			0.006 - 0.020	NT
Baby Food - Sweet Potatoes	585	0			0.006 - 0.020	NT
Beets, Canned	373	0			0.006 - 0.020	NT
Cabbage	742	1	0.1	0.005 ^	0.003 ^	7.0
Hot Peppers	279	0			0.006 - 0.020	NT
Lettuce	744	0			0.003 ^	35
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.006 ^	NT
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	372	0			0.006 - 0.020	NT
Spinach, Canned	198	0			0.006 ^	35
Spinach, Frozen	198	0			0.006 ^	35
Winter Squash	186	0			0.006 ^	NT
TOTAL	5,268	1				
Thionazin (insecticide, fumigant)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	373	0			0.002 ^	NT
Hot Peppers	279	0			0.002 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.002 - 0.003	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	2,615	0				
Thiophanate methyl (fungicide)						
Hot Peppers	244	1	0.4	0.10 ^	0.040 ^	0.5
Mushrooms	186	0			0.10 ^	NT
Onion	93	0			0.040 ^	0.5
Orange Juice	585	0			0.10 ^	NT
TOTAL	1,108	1				
Tolyfluamid (fungicide)						
Beets, Canned	383	0			0.024 ^	NT
TOTAL	383	0				
Tralomethrin (insecticide)						
Cherry Tomatoes	738	0			0.029 - 0.24	0.02
TOTAL	738	0				
Tri-Allate (herbicide)						
Baby Food - Green Beans	584	0			0.009 ^	NT
Baby Food - Sweet Potatoes	585	0			0.018 ^	NT
Beets, Canned	373	0			0.009 - 0.018	NT
Cantaloupe	739	0			0.010 ^	NT
Hot Peppers	279	0			0.009 ^	NT
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 - 0.009	0.2
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	4,071	0				
Triadimefon (fungicide) (also a parent of Triadimenol)						
Baby Food - Green Beans	584	0			0.006 ^	NT
Baby Food - Pears	585	0			0.001 - 0.006	1.0
Baby Food - Sweet Potatoes	585	0			0.006 ^	NT
Beets, Canned	756	0			0.002 - 0.006	NT
Cantaloupe	739	0			0.010 ^	NT
Hot Peppers	279	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
Onion	93	0			0.006 ^	NT
Plums	143	0			0.006 ^	NT
Snap Peas	744	0			0.001 - 0.006	NT
Sweet Bell Peppers	741	0			0.002 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.006 ^	NT
TOTAL	6,152	0				
Triadimenol (fungicide) (also a metabolite of Triadimefon)						
Baby Food - Green Beans	584	0			0.018 ^	NT
Baby Food - Sweet Potatoes	585	0			0.018 ^	NT
Beets, Canned	756	0			0.017 - 0.018	NT
Cantaloupe	739	0			0.010 ^	NT
Hot Peppers	279	0			0.018 ^	NT
Onion	93	0			0.018 ^	NT
Plums	143	0			0.018 ^	NT
Snap Peas (V-19)	372	19	5.1	0.030 - 0.47	0.018 ^	NT
Sweet Bell Peppers (V-1)	741	1	0.1	0.023 ^	0.017 ^	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.018 ^	NT
TOTAL	5,195	20				
Triazophos (insecticide)						
Onion	93	0			0.003 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	93	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	NT
TOTAL	515	0				
Trichlorfon (insecticide)						
Mushrooms	186	0			0.010 ^	NT
Orange Juice	<u>585</u>	<u>0</u>			0.010 ^	NT
TOTAL	771	0				
Trifloxystrobin (fungicide)						
Baby Food - Green Beans	584	0			0.002 ^	NT
Baby Food - Pears	585	4	0.7	0.002 ^	0.001 ^	0.5
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	756	0			0.002 - 0.005	0.1
Cantaloupe	739	0			0.005 ^	0.50
Cauliflower	186	0			0.001 ^	NT
Cherry Tomatoes	738	39	5.3	0.002 - 0.15	0.001 ^	0.5
Hot Peppers	539	8	1.5	0.003 - 0.034	0.001 - 0.002	0.5
Lettuce (V-1)	744	1	0.1	0.012 ^	0.003 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.003 ^	0.6
Papaya	384	5	1.3	0.002 - 0.004	0.002 ^	0.7
Plums	143	1	0.7	0.010 ^	0.002 ^	2
Snap Peas (V-4)	744	4	0.5	0.002 - 0.007	0.001 - 0.002	NT
Sweet Bell Peppers	741	24	3.2	0.005 - 0.11	0.005 ^	0.5
Tangerines	717	0			0.005 ^	0.6
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.50
TOTAL	9,235	86				
Trifloxysulfuron (herbicide)						
Mushrooms	186	0			0.005 ^	NT
Orange Juice	<u>585</u>	<u>0</u>			0.005 ^	0.03
TOTAL	771	0				
Triflumizole (fungicide)						
Baby Food - Green Beans	584	0			0.003 ^	NT
Baby Food - Sweet Potatoes	585	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
Beets, Canned	756	0			0.002 - 0.003	NT
Cabbage	742	0			0.002 - 0.003	8.0
Cantaloupe	739	0			0.003 ^	0.5
Hot Peppers (V-2)	279	2	0.7	0.005 - 0.013	0.003 ^	NT
Onion	93	0			0.003 ^	NT
Papaya	384	0			0.050 ^	2.5
Plums	143	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Sweet Bell Peppers (V-1)	741	1	0.1	0.008 ^	0.002 ^	NT
Tangerines	717	0			0.003 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.5
TOTAL	6,321	3				
Trifluralin (herbicide)						
Baby Food - Green Beans	584	0			0.005 ^	0.05
Baby Food - Pears	552	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.018 ^	0.05
Beets, Canned	756	0			0.005 - 0.018	0.05
Cabbage	742	0			0.049 ^	0.05
Cantaloupe	739	0			0.010 ^	0.05
Cauliflower	186	0			0.003 ^	0.05
Cherry Tomatoes	738	0			0.004 - 0.042	0.05
Hot Peppers	553	0			0.005 - 0.080	0.05
Lettuce (V-9)	744	9	1.2	0.001 - 0.002	0.001 ^	NT
Mushrooms	186	0			0.001 ^	NT
Onion	186	0			0.005 - 0.010	0.05
Orange Juice	585	0			0.001 ^	0.05
Plums	143	0			0.005 ^	0.05
Snap Peas	744	0			0.001 - 0.005	0.05
Sweet Bell Peppers	741	0			0.006 ^	0.05
Tangerines	717	0			0.010 ^	0.05
Winter Squash	<u>186</u>	<u>0</u>			0.005 ^	0.05
TOTAL	9,667	9				
Triticonazole (fungicide)						
Cantaloupe	739	0			0.010 ^	NT
Tangerines	<u>717</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,456	0				
Uniconazole (insect growth regulator)						
Baby Food - Green Beans	584	0			0.024 ^	NT
Baby Food - Sweet Potatoes	585	0			0.024 ^	NT
Beets, Canned	373	0			0.024 ^	NT
Cherry Tomatoes	734	3	0.4	0.003 ^	0.002 ^	0.01
Hot Peppers	279	0			0.024 ^	0.01
Onion	93	0			0.024 ^	NT
Plums	143	0			0.024 ^	NT
Snap Peas	372	0			0.024 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.024 ^	NT
TOTAL	3,349	3				
Vernolate (herbicide)						
Cantaloupe	739	0			0.010 ^	NT
Tangerines	<u>717</u>	<u>0</u>			0.010 ^	NT
TOTAL	1,456	0				
Vinclozolin (fungicide)						
Baby Food - Green Beans	584	0			0.006 ^	2.0
Baby Food - Pears	585	0			0.004 ^	NT
Baby Food - Sweet Potatoes	585	0			0.008 ^	NT
Beets, Canned	756	0			0.006 - 0.020	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	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
Hot Peppers	279	0			0.006 ^	NT
Lettuce	744	1	0.1	0.011 ^	0.001 ^	10.0
Mushrooms	186	0			0.001 ^	NT
Onion	93	0			0.003 ^	NT
Orange Juice	585	0			0.001 ^	NT
Plums	143	0			0.003 ^	NT
Snap Peas	744	0			0.001 - 0.006	NT
Sweet Bell Peppers	741	0			0.010 ^	3.0
Tangerines	717	0			0.010 ^	NT
Winter Squash	186	0			0.003 ^	NT
TOTAL	7,853	1				
Zoxamide (fungicide)						
Cherry Tomatoes	738	8	1.1	0.015 - 0.13	0.009 ^	2.0
TOTAL	738	8				

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 2011 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.

NR = Metabolite of carbaryl. Not regulated (not included in tolerance expression).

1 Metalaxyl and mefenoxam have separate registrations. Mefenoxam is also known as Metalaxyl-M, which is one of the spatial isomers comprising metalaxyl. The spatial isomers of metalaxyl are analytically indistinguishable via multiresidue methods.

2 Specific tolerance established for methamidophos in green beans as a possible result of an acephate application.

3 Specific tolerance established for methamidophos in hot peppers as a possible result of an acephate application.

4 Analytically determined as the salt (hydrochloride).

(X) = Residue was found which exceeds EPA tolerance or FDA action level. Following "X" are the number of occurrences. Refer to page 1 in Appendix M to see the sample origin (domestic, imported, or unknown) for each occurrence.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences. Refer to pages 2 through 4 in Appendix M to see the number of occurrences broken down by sample origin (domestic, imported, or unknown) for a commodity/pesticide pair.

Appendix C

Distribution of Residues by Pesticide in Soybeans

Appendix C shows residue detections for all compounds tested in soybeans, 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 2011 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 2011, the Pesticide Data Program (PDP) analyzed 300 soybean samples. PDP detected 13 different residues (including metabolites), representing 12 pesticides, in the soybean samples. All residue detections were lower than the established tolerances.

Results for environmental contaminants across all commodities, including soybeans, 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 SOYBEANS

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	300				0.040 ^	1.0
Acetochlor	H	300				0.003 ^	1.0
Alachlor	H	300				0.001 ^	1.0
Aldicarb	I	300				0.010 ^	0.02
Aldicarb sulfone	IM	300				0.003 ^	0.02
Aldicarb sulfoxide	IM	300				0.010 ^	0.02
Aminomethylphosphonic acid (AMPA)	HM	300	287	95.7	0.26 - 20	0.25 ^	NA
Azoxystrobin	F	280	10	3.6	0.001 - 0.003	0.001 ^	0.5
Bendiocarb	I	279				0.002 ^	NT
Benoxacor	S	300				0.003 - 0.010	NT
Boscalid	F	280				0.002 - 0.005	0.1
Carbaryl	I	300				0.003 ^	4.0
Carbendazim (MBC)	F	300				0.002 ^	NT
Carbofuran	I	300				0.003 ^	1.0
Carboxin	F	300	4	1.3	0.001 - 0.002	0.001 ^	0.2
Chlorimuron ethyl	H	239				0.010 ^	0.05
Chlorpyrifos	I	300	8	2.7	0.003 - 0.005	0.003 ^	0.3
Clofencet	P	300				0.030 ^	30.0
Clomazone	H	300				0.003 ^	0.05
Clothianidin	I	300				0.003 ^	0.02
Cyfluthrin	I	300				0.010 ^	0.03
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	300	1	0.3	0.010 ^	0.010 ^	0.01
Cypermethrin	I	300				0.025 ^	0.05
Cyproconazole	F	300				0.005 ^	0.05
Deltamethrin (includes parent Tralomethrin)	I	300				0.015 - 0.050	0.1
Difenoconazole	F	280				0.003 ^	0.15
Dimethenamid	H	300				0.001 ^	0.01
Dimethoate	I	300				0.008 ^	0.05
Disulfoton	I	300				0.006 ^	NT
Disulfoton sulfone	IM	300				0.030 ^	NT
Disulfoton sulfoxide	IM	231				0.004 - 0.012	NT
Epoxiconazole	F	300				0.004 ^	NT
EPTC	H	255				0.003 - 0.010	NT
Esfenvalerate	I	300				0.010 ^	0.25
Ethalfuralin	H	300				0.001 ^	0.05
Fenarimol	F	300				0.031 ^	NT
Fenoxaprop ethyl	H	300				0.002 ^	0.05
Fenpropathrin	I	300				0.004 - 0.014	NT

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
Fluazifop butyl	H	300				0.003 ^	2.5
Fludioxonil	F	300				0.008 ^	0.01
Flumetsulam	H	300				0.010 ^	0.05
Fluquinconazole	F	240				0.014 ^	NT
Fluridone	H	294	1	0.3	0.001 ^	0.001 ^	0.1
Flutriafol	F	300				0.004 ^	0.35
Glyphosate	H	300	271	90.3	0.26 - 18.5	0.25 ^	20.0
Hydroprene	R	300				0.021 ^	0.2
3-Hydroxycarbofuran	IM	300				0.003 ^	1.0
5-Hydroxythiabendazole	FM	300				0.003 ^	0.1
Imazaquin	H	300				0.003 ^	0.05
Imidacloprid	I	300				0.003 ^	3.5
Indoxacarb	I	280				0.027 ^	0.80
Lactofen	H	298				0.009 ^	0.01
Linuron	H	300				0.003 - 0.010	1.0
Malathion	I	300	11	3.7	0.006 - 0.20	0.006 ^	8
Malathion oxygen analog	IM	300				0.003 ^	8
Metalaxyl/Mefenoxam *	F	300				0.002 - 0.007	1.0
Methamidophos	I	300				0.030 ^	NT
Methomyl	I	300				0.003 - 0.010	0.2
Methoxyfenozide	I	300	2	0.7	0.007 - 0.063	0.003 ^	1.0
Metolachlor	H	300				0.002 ^	0.20
Metribuzin	H	300				0.007 ^	0.3
Myclobutanil	F	300				0.002 ^	0.25
Norflurazon	H	300				0.015 ^	0.1
Norflurazon desmethyl	HM	300				0.005 ^	0.1
Omethoate	IM	300				0.004 ^	0.05
Oxadixyl	F	300				0.003 ^	NT
Oxamyl	I	300				0.003 ^	0.1
Oxyfluorfen	H	300				0.002 ^	0.05
Parathion ethyl	I	300				0.004 ^	NT
Parathion methyl	I	300				0.006 ^	0.1
Parathion methyl oxygen analog	IM	300				0.002 ^	0.1
Parathion oxygen analog	IM	300				0.025 ^	NT
Pendimethalin	H	300				0.006 ^	0.1
Permethrin Total	I	300				0.009 ^	0.05
Phorate	I	300				0.004 ^	0.05
Prallethrin	I	300				0.045 ^	1.0
Propetamphos	I	280				0.001 ^	0.1
Propiconazole	F	300				0.003 ^	2.0
Pymetrozine	I	280				0.003 ^	NT
Pyraclostrobin	F	300	20	6.7	0.001 - 0.022	0.001 ^	0.04

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
Pyriproxyfen	I	300				0.032 ^	0.2
Quizalofop ethyl	H	300	2	0.7	0.002 ^	0.002 ^	0.05
Resmethrin	I	300				0.002 ^	3.0
Spinosad A	IM	300				0.003 - 0.010	0.02
Sulfentrazone	H	300				0.015 - 0.050	NT
Tebuconazole	F	300				0.004 ^	0.08
Tetraconazole	F	295	1	0.3	0.008 ^	0.006 ^	0.15
Tetrahydrophthalimide (THPI)	FM	300				0.015 ^	0.05
Thiabendazole	F	300				0.003 ^	0.1
Thiamethoxam	I	300				0.001 ^	0.08
Thifensulfuron methyl	H	300				0.006 - 0.020	1.0
Trifloxystrobin	F	300	2	0.7	0.001 - 0.003	0.001 ^	0.08
Trifluralin	H	300				0.002 ^	0.1

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 2011 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 = AMPA, a degradation product of glyphosate, is not subject to the food tolerance established for glyphosate.

The tolerance applies only to the parent compound.

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

* = Metalaxyl and mefenoxam have separate registrations. Mefenoxam is also known as Metalaxyl-M, which is one of the spatial isomers comprising metalaxyl. The spatial isomers of metalaxyl are analytically indistinguishable via multiresidue methods.

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

P = Plant Growth Regulator

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 2011 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 2011, the Pesticide Data Program (PDP) analyzed 371 egg samples. PDP detected 6 different residues (including metabolites) in the egg 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 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				0.010 ^	0.5
Carbendazim (MBC)	F	371				0.004 ^	NT
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
Fenpropathrin	I	371				0.014 ^	0.05
Fipronil	I	371				0.003 ^	0.03

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
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-2)	I	371	2	0.5	0.001 - 0.002	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/Mefenoxam *	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	1	0.3	0.037 ^	0.015 ^	10
Myclobutanil	F	371				0.020 ^	0.02
1-Naphthol	IM	371	1	0.3	0.019 ^	0.010 ^	NR
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	2	0.5	0.016 - 0.039	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	10	2.7	0.002 - 0.032	0.002 ^	10
Prallethrin	I	371				0.010 ^	1.0
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

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
Pyrethrins	I	371	1	0.3	0.013 ^	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	351				0.010 ^	0.30
Tebuconazole	F	371				0.010 ^	NT
Tefluthrin	I	371				0.003 ^	NT
Tepraloxydim	H	371				0.050 ^	0.20
Tetrachlorvinphos	I	371				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				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 2011 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.

* = Metalaxyl and mefenoxam have separate registrations. Mefenoxam is also known as Metalaxyl-M, which is one of the spatial isomers comprising metalaxyl. The spatial isomers of metalaxyl are analytically indistinguishable via multiresidue methods.

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

NR = Metabolite of carbaryl. Not regulated (not included in tolerance expression).

(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 Milk

Appendix E shows residue detections for all compounds tested in milk, 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 2011 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 2011, the Pesticide Data Program (PDP) analyzed 743 milk samples. PDP detected 5 different residues (including metabolites), representing 4 pesticides, in the milk samples. All residue detections were lower than the established tolerances.

Results for environmental contaminants across all commodities, including milk, 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 MILK

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	743				0.002 ^	0.1
Acetamiprid	I	743				0.001 ^	0.1
Acibenzolar S methyl	L	743				0.007 ^	NT
Alachlor	H	743				0.003 ^	0.02
Aldicarb	I	743				0.003 ^	NT
Aldicarb sulfone	IM	743				0.003 - 0.020	NT
Aldicarb sulfoxide	IM	743				0.002 - 0.006	NT
Atrazine	H	743				0.002 - 0.006	0.02
Azinphos methyl	I	743				0.012 ^	NT
Azoxystrobin	F	743				0.001 - 0.003	0.006
Bendiocarb	I	743				0.040 ^	NT
Benoxacor	S	743				0.002 ^	0.01
Bentazon	H	713				0.001 - 0.006	0.02
Bifenthrin	I	743				0.003 ^	NT
Boscalid	F	697				0.006 - 0.10	0.1
Buprofezin	I	743				0.001 ^	0.01
Carbaryl	I	743				0.001 ^	1
Carbendazim (MBC)	F	743				0.001 ^	NT
Carbofuran	I	743				0.001 ^	NT
Carbophenothion	I	743				0.002 ^	NT
Chlorantraniliprole	I	743				0.002 ^	0.05
Chlorfenapyr	I	743				0.002 ^	0.01
Chlorfenvinphos total	I	743				0.004 ^	NT
Chlorpropham	H	743				0.006 ^	0.3
Chlorpyrifos	I	743				0.001 ^	0.01
Clethodim	H	743				0.008 ^	0.05
Clomazone	H	743				0.002 ^	NT
Coumaphos	I	743				0.006 ^	NT
Coumaphos oxygen analog	IM	743				0.008 ^	NT
Cyfluthrin	I	743				0.041 ^	0.2
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	743				0.006 ^	0.2
Cypermethrin	I	743				0.043 ^	0.1
Cyromazine	R	667				0.002 ^	0.05
DCPA	H	743				0.001 ^	NT
Deltamethrin (includes parent Tralomethrin)	I	743				0.024 ^	0.05
Diazinon	I	743				0.002 ^	NT
Diazinon oxygen analog	IM	743				0.003 ^	NT

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
Dichlobenil	H	743				0.019 ^	NT
Dichlorvos (DDVP)	I	743				0.003 ^	0.02
Dicloran	F	743				0.002 ^	NT
Dicofol o,p'	I	743				0.003 ^	0.75
Dicofol p,p'	I	743	1	0.1	0.005 ^	0.003 ^	0.75
Dicrotophos	I	743				0.002 ^	NT
Difenoconazole	F	743				0.003 ^	0.08
Diiflubenzuron	I	426				0.007 ^	0.05
Dimethenamid	H	743				0.001 ^	NT
Dimethoate	I	743				0.002 ^	0.002
Dimethomorph	F	743				0.001 ^	NT
Dinotefuran	I	743				0.006 - 0.020	0.05
Diphenamid	H	743				0.010 ^	NT
Diphenylamine (DPA)	P	729				0.003 ^	0.01
Disulfoton	I	743				0.002 ^	NT
Disulfoton sulfone	IM	743				0.006 ^	NT
Diuron	H	743				0.008 ^	NT
Emamectin benzoate	I	743				0.001 ^	0.003
Endosulfan I	I	743				0.006 ^	NT
Endosulfan II	IM	738				0.006 ^	NT
Endosulfan sulfate	IM	743				0.020 ^	NT
Eprinomectin	I	681				0.001 - 0.003	NT
EPTC	H	743				0.064 ^	NT
Esfenvalerate+Fenvalerate Total	I	743				0.009 - 0.029	0.3
Ethalfuralin	H	683				0.017 ^	NT
Ethiofencarb	I	743				0.015 ^	NT
Ethion	I	743				0.001 ^	NT
Ethion mono oxon	IM	743				0.002 ^	NT
Ethoprop	I	743				0.001 ^	NT
Etoxazole	A	743				0.001 - 0.006	NT
Fenamidone	F	695				0.002 ^	0.02
Fenamiphos	I	743				0.002 ^	NT
Fenamiphos sulfone	IM	743				0.004 ^	NT
Fenamiphos sulfoxide	IM	743				0.004 ^	NT
Fenarimol	F	743				0.010 ^	NT
Fenbuconazole	F	743				0.001 - 0.003	NT
Fenhexamid	F	743				0.010 ^	NT
Fenitrothion	I	743				0.003 ^	NT
Fenpropathrin	I	738				0.016 ^	NT
Fenthion	I	743				0.002 ^	NT

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
Fipronil	I	665				0.003 - 0.050	NT
Flonicamid	I	743				0.001 ^	0.03
Fluazifop butyl	H	743				0.003 ^	0.05
Fludioxonil	F	743				0.012 ^	NT
Fluoxastrobin	F	743				0.001 ^	0.02
Fonofos	I	743				0.002 - 0.010	NT
Hydroprene	R	743				0.013 ^	0.2
3-Hydroxycarbofuran	IM	743				0.001 - 0.004	NT
Imazalil	F	743				0.010 ^	0.02
Imidacloprid	I	743				0.001 ^	0.1
Iprodione	F	743	3	0.4	0.014 ^	0.008 ^	0.5
Kresoxim-methyl	F	743				0.010 ^	NT
Lindane (BHC gamma)	I	743				0.003 ^	0.3 AL
Linuron	H	743				0.003 ^	0.05
Malathion	I	743				0.003 ^	NT
Malathion oxygen analog	IM	743				0.003 ^	NT
Mandipropamid	F	743				0.005 ^	NT
Metalaxyl/Mefenoxam *	F	743				0.006 ^	0.02
Methamidophos	I	743				0.001 ^	NT
Methidathion	I	743				0.002 ^	NT
Methidathion oxygen analog	IM	743				0.003 ^	NT
Methiocarb	I	743				0.001 ^	NT
Methomyl	I	743				0.002 - 0.008	NT
Methoprene	R	743				0.014 - 0.048	NT
Methoxychlor olefin	IM	743				0.001 ^	NT
Methoxychlor Total	I	743				0.002 ^	NT
Methoxyfenozide	I	743				0.001 ^	0.1
Metolachlor	H	743				0.001 ^	0.02
Metribuzin	H	743				0.013 - 0.088	0.05
Mevinphos Total	I	743				0.002 - 0.005	NT
Myclobutanil	F	743				0.001 ^	0.2
Napropamide	H	743				0.007 ^	NT
Norflurazon	H	727				0.016 - 0.067	0.1
Norflurazon desmethyl	HM	743				0.018 - 0.25	0.1
Omethoate	IM	743				0.002 ^	0.002
Oxadixyl	F	743				0.013 ^	NT
Oxamyl	I	743				0.006 ^	NT
Oxydemeton methyl sulfone	IM	743				0.012 ^	0.01
Oxyfluorfen	H	743				0.003 ^	0.01
Parathion ethyl	I	743				0.003 ^	NT

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
Parathion methyl	I	743				0.008 - 0.016	NT
Parathion methyl oxygen analog	IM	743				0.005 ^	NT
Parathion oxygen analog	IM	743				0.003 ^	NT
Pendimethalin	H	743				0.002 ^	NT
Pentachloroaniline (PCA)	FM	743				0.001 ^	NT
Pentachlorobenzene (PCB)	FM	743				0.002 - 0.006	NT
Pentachlorophenyl methyl sulfide	FM	743				0.001 ^	NT
Permethrin cis	IM	743	1	0.1	0.011 ^	0.002 ^	0.88
Permethrin trans	IM	743	2	0.3	0.004 - 0.019	0.002 ^	0.88
Phenothrin	I	743				0.002 - 0.008	0.01
Phenthoate	I	743				0.006 ^	NT
Phorate	I	743				0.002 ^	NT
Phorate oxygen analog	IM	743				0.001 ^	NT
Phorate sulfone	IM	743				0.003 ^	NT
Phorate sulfoxide	IM	743				0.009 ^	NT
Phosalone	I	743				0.002 ^	NT
Phosmet	I	743				0.005 ^	0.1
Phosphamidon	I	743				0.003 ^	NT
Piperonyl butoxide	I	743	1	0.1	0.017 ^	0.016 ^	10
Pirimicarb	I	743				0.010 ^	NT
Pirimiphos methyl	I	743				0.002 ^	NT
Profenofos	I	743				0.002 ^	0.01
Prometryn	H	743				0.007 ^	NT
Pronamide	H	743				0.006 ^	0.02
Propachlor	H	729				0.002 ^	0.02
Propargite	I	743				0.026 ^	0.08
Propetamphos	I	743				0.002 ^	0.1
Propiconazole	F	743				0.008 - 0.025	0.05
Pymetrozine	I	743				0.005 ^	NT
Pyraclostrobin	F	743				0.004 - 0.018	0.1
Pyrimethanil	F	743				0.001 ^	0.05
Pyriproxyfen	I	743				0.013 ^	0.1
Quinoxifen	F	743				0.002 ^	NT
Quintozene (PCNB)	F	743				0.003 ^	NT
Resmethrin-c	IM	743				0.002 ^	3
Simazine	H	743				0.002 ^	0.03
Spinetoram	I	743				0.001 ^	NT
Spinosad	I	743				0.001 ^	7
Spiromesifen Total (parent + enol metabolite)	I	711				0.006 - 0.040	0.01
Sulprofos	I	743				0.002 ^	NT

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	743				0.002 ^	0.1
Tebufenozide	I	697				0.003 - 0.050	0.04
Tebuthiuron	H	743				0.001 ^	0.8
Tecnazene	P	738				0.005 ^	NT
Tefluthrin	I	743				0.002 ^	NT
Terbacil	H	743				0.006 ^	NT
Terbufos	I	743				0.002 ^	NT
Terbufos sulfone	IM	743				0.002 ^	NT
Tetrachlorvinphos	I	743				0.003 ^	NT
Tetraconazole	F	743				0.001 ^	0.03
Tetradifon	I	727				0.010 ^	NT
Tetrahydrophthalimide (THPI)	FM	743				0.020 ^	0.1
Thiabendazole	F	743				0.001 ^	0.1
Thiacloprid	I	743				0.001 - 0.003	0.03
Thiamethoxam	I	743				0.005 ^	0.02
Thiobencarb	H	743				0.003 - 0.006	0.05
Triadimefon	F	743				0.003 - 0.006	NT
Trifloxystrobin	F	743				0.001 - 0.003	0.02
Trifluralin	H	729				0.001 ^	NT
Vinclozolin	F	743				0.004 ^	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 2011 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.

* = Metalaxyl and mefenoxam have separate registrations. Mefenoxam is also known as Metalaxyl-M, which is one of the spatial isomers comprising metalaxyl. The spatial isomers of metalaxyl are analytically indistinguishable via multiresidue methods.

Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

L = Plant Activator

P = Plant Growth Regulator

R = Insect Growth Regulator

S = Herbicide Safener

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). The U.S. Environmental Protection Agency (EPA) Human Health Benchmarks for Pesticides (HHBPs) are also shown.

In 2011, the Pesticide Data Program (PDP) analyzed 604 groundwater samples from 604 different collection sites, including 372 from school/daycare wells and 232 from private residential wells. PDP detected 62 different residues (including metabolites), representing 49 pesticides, in the groundwater samples. Most of the detections were for herbicides. The samples with detectable residues came from 443 different sites.

The HHBP values were developed for compounds with no established EPA Maximum Contaminant Levels (MCLs) or Health Advisory (HA) values for drinking water, enabling citizens to better determine whether the detection of a pesticide in drinking water or source waters for drinking water may indicate a potential health risk. The HHBP values can be referenced at <http://www.epa.gov/pesticides/hhbp/>.

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 (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
2,4,5-T (H)						
Groundwater - Private Residence Wells	232				1.6 - 15	
Groundwater - School/Daycare Wells	372				1.6 - 15	
2,4,5-TP (H)						
Groundwater - Private Residence Wells	139				15 ^	
Groundwater - School/Daycare Wells	139				15 ^	
2,4-D (H)						
Groundwater - Private Residence Wells	232	16	6.9	1.1 - 97	0.65 - 2.5	
Groundwater - School/Daycare Wells	372	151	40.6	1.1 - 1300	0.65 - 2.5	
2,4-DB (H)						
Groundwater - Private Residence Wells	232				4.0 - 42	
Groundwater - School/Daycare Wells	372				4.0 - 42	
Acetamiprid (I)						
Groundwater - Private Residence Wells	232				1.7 - 7.5	497,000
Groundwater - School/Daycare Wells	372				1.7 - 7.5	497,000
Acetochlor (H)						
Groundwater - Private Residence Wells	231	1	0.4	41 ^	9.2 - 10	140,000
Groundwater - School/Daycare Wells	372	32	8.6	14 - 42.4	9.2 - 10	140,000
Acetochlor ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	232	51	22	2.7 - 430	1.6 - 9.0	
Groundwater - School/Daycare Wells	372	108	29	2.7 - 440	1.6 - 9.0	
Acetochlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	232	28	12.1	2.3 - 319	1.4 - 10	
Groundwater - School/Daycare Wells	372	98	26.3	2.3 - 450	1.4 - 10	
Alachlor (H)						
Groundwater - Private Residence Wells	231	2	0.9	13 - 44	7.8 - 10	
Groundwater - School/Daycare Wells	372				7.8 - 10	
Alachlor ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	232	67	28.9	2.8 - 559	1.7 - 12.5	
Groundwater - School/Daycare Wells	372	85	22.8	2.8 - 1000	1.7 - 12.5	
Alachlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	232	26	11.2	1.0 - 5380	0.61 - 10	
Groundwater - School/Daycare Wells	372	34	9.1	1.0 - 51	0.61 - 10	
Aldicarb sulfone (IM)						
Groundwater - Private Residence Wells	232				4.5 - 7.6	
Groundwater - School/Daycare Wells	372				4.5 - 7.6	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Aldicarb sulfoxide (IM)						
Groundwater - Private Residence Wells	232				15 ^	
Groundwater - School/Daycare Wells	372				15 ^	
Aminopyralid (H)						
Groundwater - Private Residence Wells	93				4.5 - 16	3,500,000
Groundwater - School/Daycare Wells	233				4.5 - 16	3,500,000
Atrazine (H)						
Groundwater - Private Residence Wells	231	31	13.4	1.1 - 137	0.66 - 10	
Groundwater - School/Daycare Wells	372	190	51.1	1.1 - 1600	0.66 - 10	
Azinphos methyl (I)						
Groundwater - Private Residence Wells	93				10 ^	11,000
Groundwater - School/Daycare Wells	233				10 ^	11,000
Azinphos methyl oxygen analog (IM)						
Groundwater - Private Residence Wells	232				4.5 - 8.7	
Groundwater - School/Daycare Wells	372				4.5 - 8.7	
Azoxystrobin (F)						
Groundwater - Private Residence Wells	232				0.80 - 3.0	1,260,000
Groundwater - School/Daycare Wells	372				0.80 - 3.0	1,260,000
Bensulfuron methyl (H)						
Groundwater - Private Residence Wells	232				1.5 - 5.0	1,400,000
Groundwater - School/Daycare Wells	372				1.5 - 5.0	1,400,000
Bentazon (H)						
Groundwater - Private Residence Wells	232	33	14.2	0.30 - 350	0.18 - 0.30	
Groundwater - School/Daycare Wells	372	18	4.8	0.30 - 34	0.18 - 0.30	
Bifenthrin (I)						
Groundwater - Private Residence Wells	93				3.2 ^	91,000
Groundwater - School/Daycare Wells	233				3.2 ^	91,000
Boscalid (F)						
Groundwater - Private Residence Wells	138				60 ^	1,526,000
Groundwater - School/Daycare Wells	139				60 ^	1,526,000
Bromacil (H)						
Groundwater - Private Residence Wells	232	6	2.6	4.2 - 99	1.2 - 6.0	
Groundwater - School/Daycare Wells	372	7	1.9	30 - 1900	1.2 - 6.0	
Bromuconazole 46 (trans) (FM)						
Groundwater - Private Residence Wells	232				3.0 - 3.2	63,000
Groundwater - School/Daycare Wells	372				3.0 - 3.2	63,000
Bromuconazole 47 (cis) (FM)						
Groundwater - Private Residence Wells	232				3.0 - 5.4	63,000
Groundwater - School/Daycare Wells	372				3.0 - 5.4	63,000

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Butachlor (H)						
Groundwater - Private Residence Wells	93				1.9 ^	
Groundwater - School/Daycare Wells	233				1.9 ^	
Butylate (H)						
Groundwater - Private Residence Wells	93				1.8 ^	
Groundwater - School/Daycare Wells	233				1.8 ^	
Carbaryl (I)						
Groundwater - Private Residence Wells	232				1.2 - 23	
Groundwater - School/Daycare Wells	372				1.2 - 23	
Carbofuran (I)						
Groundwater - Private Residence Wells	232				0.41 - 4.0	
Groundwater - School/Daycare Wells	372				0.41 - 4.0	
Chlorantraniliprole (I)						
Groundwater - Private Residence Wells	232	3	1.3	5.0 - 24	3.0 - 15	11,060,000
Groundwater - School/Daycare Wells	372				3.0 - 15	11,060,000
Chlorfenvinphos (I)						
Groundwater - Private Residence Wells	93				9.6 ^	
Groundwater - School/Daycare Wells	233				9.6 ^	
Chlorimuron ethyl (H)						
Groundwater - Private Residence Wells	232				5.7 - 13	630,000
Groundwater - School/Daycare Wells	372	1	0.3	21.6 ^	5.7 - 13	630,000
Chlorothalonil (F)						
Groundwater - Private Residence Wells	231	1	0.4	3200 ^	5.2 - 30	
Groundwater - School/Daycare Wells	372				5.2 - 30	
Chlorpyrifos (I)						
Groundwater - Private Residence Wells	138				30 ^	
Groundwater - School/Daycare Wells	139				30 ^	
Chlorsulfuron (H)						
Groundwater - Private Residence Wells	93				1.7 ^	140,000
Groundwater - School/Daycare Wells	233	1	0.4	5.6 ^	1.7 ^	140,000
Clomazone (H)						
Groundwater - Private Residence Wells	138				30 ^	5,880,000
Groundwater - School/Daycare Wells	139				30 ^	5,880,000
Clopyralid (H)						
Groundwater - Private Residence Wells	232				3.4 - 12.5	1,050,000
Groundwater - School/Daycare Wells	372	4	1.1	5.7 - 24	3.4 - 12.5	1,050,000
Clothianidin (I)						
Groundwater - Private Residence Wells	232				4.8 - 7.5	686,000
Groundwater - School/Daycare Wells	372				4.8 - 7.5	686,000

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Cyanazine (H)						
Groundwater - Private Residence Wells	231				0.78 - 50	
Groundwater - School/Daycare Wells	372				0.78 - 50	
Cycloate (H)						
Groundwater - Private Residence Wells	93				3.3 ^	35,000
Groundwater - School/Daycare Wells	233				3.3 ^	35,000
Cyfluthrin (I)						
Groundwater - Private Residence Wells	93				40 ^	168,000
Groundwater - School/Daycare Wells	233				40 ^	168,000
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (I)						
Groundwater - Private Residence Wells	93				42 ^	7,000
Groundwater - School/Daycare Wells	233				42 ^	7,000
Cypermethrin (I)						
Groundwater - Private Residence Wells	93				74 ^	420,000
Groundwater - School/Daycare Wells	233				74 ^	420,000
Cyphenothrin (I)						
Groundwater - Private Residence Wells	93				14 ^	
Groundwater - School/Daycare Wells	233				14 ^	
Cyproconazole (F)						
Groundwater - Private Residence Wells	93				0.72 - 1.6	70,000
Groundwater - School/Daycare Wells	233				0.72 - 1.6	70,000
DCPA (H)						
Groundwater - Private Residence Wells	138				30 ^	
Groundwater - School/Daycare Wells	139				30 ^	
Deltamethrin (includes parent Tralomethrin) (I)						
Groundwater - Private Residence Wells	93				84 ^	70,000
Groundwater - School/Daycare Wells	233				84 ^	70,000
Desethyl atrazine (HM)						
Groundwater - Private Residence Wells	231	50	21.6	0.72 - 271	0.43 - 10	
Groundwater - School/Daycare Wells	372	208	55.9	0.72 - 230	0.43 - 10	
Desethyl-desisopropyl atrazine (HM)						
Groundwater - Private Residence Wells	232	11	4.7	15 - 335	15 - 150	
Groundwater - School/Daycare Wells	372	13	3.5	16.5 - 28	15 - 150	
Desisopropyl atrazine (HM)						
Groundwater - Private Residence Wells	231	3	1.3	5.2 - 400	3.1 - 50	
Groundwater - School/Daycare Wells	372	38	10.2	5.2 - 130	3.1 - 50	
Diazinon (I)						
Groundwater - Private Residence Wells	231				3.3 - 30	
Groundwater - School/Daycare Wells	372				3.3 - 30	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Dicamba (H)						
Groundwater - Private Residence Wells	232				15 - 67	
Groundwater - School/Daycare Wells	372	3	0.8	16.5 - 111.6	15 - 67	
Dichlobenil (H)						
Groundwater - Private Residence Wells	138				5.0 ^	70,000
Groundwater - School/Daycare Wells	139				5.0 ^	70,000
Dichlorprop (H)						
Groundwater - Private Residence Wells	232				1.7 - 15	
Groundwater - School/Daycare Wells	372				1.7 - 15	
Dicofol p,p' (I)						
Groundwater - Private Residence Wells	93				23 ^	
Groundwater - School/Daycare Wells	233				23 ^	
Difenoconazole (F)						
Groundwater - Private Residence Wells	232				3.2 - 7.5	70,000
Groundwater - School/Daycare Wells	372				3.2 - 7.5	70,000
Dimethenamid (H)						
Groundwater - Private Residence Wells	138				10 ^	350,000
Groundwater - School/Daycare Wells	139				10 ^	350,000
Dimethenamid ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	139	13	9.4	2.1 - 24.2	2.0 ^	
Groundwater - School/Daycare Wells	139				2.0 ^	
Dimethenamid oxanilic acid (HM)						
Groundwater - Private Residence Wells	232	10	4.3	1.0 - 20.2	0.63 - 3.0	
Groundwater - School/Daycare Wells	372	2	0.5	2.2 - 5.9	0.63 - 3.0	
Dimethenamid/Dimethenamid P (H)						
Groundwater - Private Residence Wells	93	1	1.1	4.2 ^	0.91 - 2.5	350,000
Groundwater - School/Daycare Wells	233				0.91 - 2.5	350,000
Dimethoate (I)						
Groundwater - Private Residence Wells	231				1.3 - 50	15,000
Groundwater - School/Daycare Wells	372				1.3 - 50	15,000
Dinoseb (H)						
Groundwater - Private Residence Wells	93	1	1.1	310 ^	0.78 ^	
Groundwater - School/Daycare Wells	233	1	0.4	11 ^	0.78 ^	
Disulfoton (I)						
Groundwater - Private Residence Wells	93				8.6 ^	
Groundwater - School/Daycare Wells	233				8.6 ^	
Disulfoton sulfone (IM)						
Groundwater - Private Residence Wells	232				2.0 - 6.0	
Groundwater - School/Daycare Wells	372				2.0 - 6.0	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Diuron (H)						
Groundwater - Private Residence Wells	232	4	1.7	5.8 - 80	1.6 - 4.0	
Groundwater - School/Daycare Wells	372	4	1.1	5.8 - 15	1.6 - 4.0	
Epoxiconazole (F)						
Groundwater - Private Residence Wells	232				2.2 - 6.9	140,000
Groundwater - School/Daycare Wells	372				2.2 - 6.9	140,000
EPTC (H)						
Groundwater - Private Residence Wells	231				5.0 - 30	350,000
Groundwater - School/Daycare Wells	372				5.0 - 30	350,000
Esfenvalerate+Fenvalerate Total (I)						
Groundwater - Private Residence Wells	93				38 ^	
Groundwater - School/Daycare Wells	233				38 ^	
Ethalfuralin (H)						
Groundwater - Private Residence Wells	138				30 ^	280,000
Groundwater - School/Daycare Wells	139				30 ^	280,000
Ethion (I)						
Groundwater - Private Residence Wells	93				25 ^	
Groundwater - School/Daycare Wells	233				25 ^	
Ethofumesate (H)						
Groundwater - Private Residence Wells	93				3.3 - 7.5	1,980,000
Groundwater - School/Daycare Wells	233				3.3 - 7.5	1,980,000
Ethoprop (I)						
Groundwater - Private Residence Wells	93				5.3 ^	10,000
Groundwater - School/Daycare Wells	233				5.3 ^	10,000
Fenbuconazole (F)						
Groundwater - Private Residence Wells	93				2.4 ^	210,000
Groundwater - School/Daycare Wells	233				2.4 ^	210,000
Fenitrothion (I)						
Groundwater - Private Residence Wells	93				13 ^	9,000
Groundwater - School/Daycare Wells	233				13 ^	9,000
Fenpropathrin (I)						
Groundwater - Private Residence Wells	93				14 ^	175,000
Groundwater - School/Daycare Wells	233				14 ^	175,000
Fenthion (I)						
Groundwater - Private Residence Wells	93				22 ^	490
Groundwater - School/Daycare Wells	233				22 ^	490
Fipronil (I)						
Groundwater - Private Residence Wells	93	7	7.5	0.58 - 13	0.35 ^	1,000
Groundwater - School/Daycare Wells	233	1	0.4	1.9 ^	0.35 ^	1,000

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Flufenacet oxanilic acid (HM)						
Groundwater - Private Residence Wells	232				0.75 - 2.5	
Groundwater - School/Daycare Wells	372	1	0.3	13 ^	0.75 - 2.5	
Flumetsulam (H)						
Groundwater - Private Residence Wells	232	1	0.4	15.5 ^	8.6 - 20	7,000,000
Groundwater - School/Daycare Wells	372				8.6 - 20	7,000,000
Fluometuron (H)						
Groundwater - Private Residence Wells	231	1	0.4	7.0 ^	1.6 - 50	
Groundwater - School/Daycare Wells	372	1	0.3	7.0 ^	1.6 - 50	
Fluroxypyr (H)						
Groundwater - Private Residence Wells	93				4.9 - 35	
Groundwater - School/Daycare Wells	233				4.9 - 35	
Fluvalinate (I)						
Groundwater - Private Residence Wells	93				130 ^	
Groundwater - School/Daycare Wells	233				130 ^	
Fonofos (I)						
Groundwater - Private Residence Wells	138				30 ^	
Groundwater - School/Daycare Wells	139				30 ^	
Halosulfuron methyl (H)						
Groundwater - Private Residence Wells	232				1.8 - 9.0	700,000
Groundwater - School/Daycare Wells	372				1.8 - 9.0	700,000
Hexaconazole (F)						
Groundwater - Private Residence Wells	232				3.0 - 11	140,000
Groundwater - School/Daycare Wells	372				3.0 - 11	140,000
Hexazinone (H)						
Groundwater - Private Residence Wells	232	3	1.3	2.5 - 13	0.50 - 3.0	
Groundwater - School/Daycare Wells	372	6	1.6	2.5 - 21	0.50 - 3.0	
Hydroxy atrazine (HM)						
Groundwater - Private Residence Wells	232	53	22.8	2.0 - 217	1.2 - 2.0	70,000
Groundwater - School/Daycare Wells	372	163	43.8	2.0 - 200	1.2 - 2.0	70,000
Imazamethabenz acid (H)						
Groundwater - Private Residence Wells	232				0.60 - 3.0	
Groundwater - School/Daycare Wells	372	2	0.5	2.0 - 2.4	0.60 - 3.0	
Imazamethabenz methyl (H)						
Groundwater - Private Residence Wells	232				0.31 - 1.5	
Groundwater - School/Daycare Wells	372	4	1.1	0.52 ^	0.31 - 1.5	
Imazamox (H)						
Groundwater - Private Residence Wells	232				1.7 - 4.0	
Groundwater - School/Daycare Wells	372				1.7 - 4.0	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Imazapic (H)						
Groundwater - Private Residence Wells	232	2	0.9	7.5 - 15	0.90 - 3.0	3,500,000
Groundwater - School/Daycare Wells	372				0.90 - 3.0	3,500,000
Imazapyr (H)						
Groundwater - Private Residence Wells	232	26	11.2	1.7 - 43.3	1.0 - 2.5	17,500,000
Groundwater - School/Daycare Wells	372	77	20.7	1.7 - 163	1.0 - 2.5	17,500,000
Imazaquin (H)						
Groundwater - Private Residence Wells	232	5	2.2	5.2 - 39.9	1.1 - 5.0	1,750,000
Groundwater - School/Daycare Wells	372	2	0.5	1.8 - 9.5	1.1 - 5.0	1,750,000
Imazethapyr (H)						
Groundwater - Private Residence Wells	232	3	1.3	2.1 - 3.0	1.0 - 2.0	17,500,000
Groundwater - School/Daycare Wells	372	38	10.2	1.7 - 8.2	1.0 - 2.0	17,500,000
Imidacloprid (H)						
Groundwater - Private Residence Wells	232	7	3	9.4 - 37	3.6 - 6.2	399,000
Groundwater - School/Daycare Wells	372	2	0.5	10.3 - 31	3.6 - 6.2	399,000
Isoxaflutole (H)						
Groundwater - Private Residence Wells	139				12 ^	140,000
Groundwater - School/Daycare Wells	139				12 ^	140,000
Isoxaflutole degradate (HM)						
Groundwater - Private Residence Wells	139				15 ^	
Groundwater - School/Daycare Wells	139				15 ^	
Lindane (BHC gamma) (I)						
Groundwater - Private Residence Wells	93				20 ^	
Groundwater - School/Daycare Wells	233				20 ^	
Linuron (H)						
Groundwater - Private Residence Wells	232				1.6 - 6.0	54,000
Groundwater - School/Daycare Wells	372				1.6 - 6.0	54,000
Malathion (I)						
Groundwater - Private Residence Wells	231				10 - 30	
Groundwater - School/Daycare Wells	372				10 - 30	
Malathion oxygen analog (IM)						
Groundwater - Private Residence Wells	138				600 ^	
Groundwater - School/Daycare Wells	139				600 ^	
MCPA (H)						
Groundwater - Private Residence Wells	232	1	0.4	3.4 ^	0.78 - 1.5	
Groundwater - School/Daycare Wells	372	6	1.6	1.3 - 1.5	0.78 - 1.5	
MCPB (H)						
Groundwater - Private Residence Wells	232				3.0 - 6.6	
Groundwater - School/Daycare Wells	372				3.0 - 6.6	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Mecoprop (MCP) (H)						
Groundwater - Private Residence Wells	232	8	3.4	1.1 - 82	0.65 - 15	280,000
Groundwater - School/Daycare Wells	372	10	2.7	1.1 - 6.9	0.65 - 15	280,000
Mesotrione (H)						
Groundwater - Private Residence Wells	139				15 ^	49,000
Groundwater - School/Daycare Wells	139				15 ^	49,000
Metalaxyl/Mefenoxam * (F)						
Groundwater - Private Residence Wells	232	3	1.3	5.0 - 91	1.0 - 3.0	
Groundwater - School/Daycare Wells	372	3	0.8	5.0 ^	1.0 - 3.0	
Methidathion (I)						
Groundwater - Private Residence Wells	138				100 ^	11,000
Groundwater - School/Daycare Wells	139				100 ^	11,000
Methomyl (I)						
Groundwater - Private Residence Wells	232				7.3 - 7.5	
Groundwater - School/Daycare Wells	372				7.3 - 7.5	
Metolachlor (H)						
Groundwater - Private Residence Wells	231	12	5.2	2.5 - 35	1.5 - 15	
Groundwater - School/Daycare Wells	372	120	32.3	2.5 - 141	1.5 - 15	
Metolachlor ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	232	138	59.5	0.60 - 1230	0.36 - 3.0	
Groundwater - School/Daycare Wells	372	203	54.6	0.60 - 1500	0.36 - 3.0	
Metolachlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	232	83	35.8	3.2 - 3260	3.0 - 3.2	
Groundwater - School/Daycare Wells	372	162	43.5	3.4 - 630	3.0 - 3.2	
Metribuzin (H)						
Groundwater - Private Residence Wells	138				30 ^	
Groundwater - School/Daycare Wells	139				30 ^	
Metribuzin DA (HM)						
Groundwater - Private Residence Wells	139	3	2.2	7.6 - 12.6	6.0 ^	
Groundwater - School/Daycare Wells	139				6.0 ^	
Metsulfuron methyl (H)						
Groundwater - Private Residence Wells	232				1.5 - 7.0	
Groundwater - School/Daycare Wells	372	5	1.3	2.5 - 58	1.5 - 7.0	
Myclobutanil (F)						
Groundwater - Private Residence Wells	231	1	0.4	4.8 ^	1.6 - 50	175,000
Groundwater - School/Daycare Wells	372				1.6 - 50	175,000
Neburon (H)						
Groundwater - Private Residence Wells	232				3.0 - 9.4	
Groundwater - School/Daycare Wells	372				3.0 - 9.4	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Nicosulfuron (H)						
Groundwater - Private Residence Wells	232				1.7 - 8.0	8,750,000
Groundwater - School/Daycare Wells	372				1.7 - 8.0	8,750,000
Norflurazon (H)						
Groundwater - Private Residence Wells	232	1	0.4	8.0 ^	4.8 - 6.0	105,000
Groundwater - School/Daycare Wells	372				4.8 - 6.0	105,000
Omethoate (IM)						
Groundwater - Private Residence Wells	232				0.30 - 7.5	
Groundwater - School/Daycare Wells	372				0.30 - 7.5	
Oxamyl (I)						
Groundwater - Private Residence Wells	232				3.0 - 7.5	
Groundwater - School/Daycare Wells	372				3.0 - 7.5	
Parathion (I)						
Groundwater - Private Residence Wells	93				15 ^	200
Groundwater - School/Daycare Wells	233				15 ^	200
Parathion methyl (I)						
Groundwater - Private Residence Wells	231				30 - 53	
Groundwater - School/Daycare Wells	372				30 - 53	
Parathion methyl oxygen analog (IM)						
Groundwater - Private Residence Wells	232				3.6 - 11	
Groundwater - School/Daycare Wells	372				3.6 - 11	
Pendimethalin (H)						
Groundwater - Private Residence Wells	138				30 ^	210,000
Groundwater - School/Daycare Wells	139				30 ^	210,000
Permethrin cis (IM)						
Groundwater - Private Residence Wells	231				9.0 - 50	1,750,000
Groundwater - School/Daycare Wells	372				9.0 - 50	1,750,000
Permethrin trans (IM)						
Groundwater - Private Residence Wells	231				7.5 - 50	1,750,000
Groundwater - School/Daycare Wells	372				7.5 - 50	1,750,000
Phenothrin (I)						
Groundwater - Private Residence Wells	93				27 ^	
Groundwater - School/Daycare Wells	233				27 ^	
Phorate (I)						
Groundwater - Private Residence Wells	231				12 - 30	4,000
Groundwater - School/Daycare Wells	372				12 - 30	4,000
Phorate oxygen analog (IM)						
Groundwater - Private Residence Wells	138				50 ^	
Groundwater - School/Daycare Wells	139				50 ^	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Phorate sulfone (IM)						
Groundwater - Private Residence Wells	138				100 ^	
Groundwater - School/Daycare Wells	139				100 ^	
Phorate sulfoxide (IM)						
Groundwater - Private Residence Wells	138				100 ^	
Groundwater - School/Daycare Wells	139				100 ^	
Picloram (H)						
Groundwater - Private Residence Wells	232				12.5 - 22	
Groundwater - School/Daycare Wells	372	5	1.3	36.6 - 340	12.5 - 22	
Prallethrin (I)						
Groundwater - Private Residence Wells	93				25 ^	350,000
Groundwater - School/Daycare Wells	233				25 ^	350,000
Prometon (H)						
Groundwater - Private Residence Wells	231	21	9.1	0.28 - 14	0.17 - 30	
Groundwater - School/Daycare Wells	372	82	22	0.28 - 54	0.17 - 30	
Prometryn (H)						
Groundwater - Private Residence Wells	232				0.17 - 1.0	280,000
Groundwater - School/Daycare Wells	372				0.17 - 1.0	280,000
Propachlor (H)						
Groundwater - Private Residence Wells	231				0.64 - 30	
Groundwater - School/Daycare Wells	372				0.64 - 30	
Propachlor ESA (HM)						
Groundwater - Private Residence Wells	139				9.0 ^	
Groundwater - School/Daycare Wells	139				9.0 ^	
Propachlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	232				1.4 - 3.0	
Groundwater - School/Daycare Wells	372				1.4 - 3.0	
Propanil (H)						
Groundwater - Private Residence Wells	231				2.2 - 30	63,000
Groundwater - School/Daycare Wells	372				2.2 - 30	63,000
Propazine (H)						
Groundwater - Private Residence Wells	231				0.42 - 30	
Groundwater - School/Daycare Wells	372	2	0.5	5.5 - 23	0.42 - 30	
Propiconazole (F)						
Groundwater - Private Residence Wells	231	1	0.4	47 ^	3.4 - 50	700,000
Groundwater - School/Daycare Wells	372	2	0.5	5.7 ^	3.4 - 50	700,000
Propoxur (I)						
Groundwater - Private Residence Wells	139				3.0 ^	
Groundwater - School/Daycare Wells	139				3.0 ^	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Prosulfuron (H)						
Groundwater - Private Residence Wells	93				1.5 ^	371,000
Groundwater - School/Daycare Wells	233				1.5 ^	371,000
Pyrasulfotole (H)						
Groundwater - Private Residence Wells	93				2.8 - 6.9	70,000
Groundwater - School/Daycare Wells	233				2.8 - 6.9	70,000
Pyroxsulam (H)						
Groundwater - Private Residence Wells	93				3.9 - 8.2	7,000,000
Groundwater - School/Daycare Wells	233				3.9 - 8.2	7,000,000
Resmethrin (I)						
Groundwater - Private Residence Wells	93				7.8 ^	245,000
Groundwater - School/Daycare Wells	233				7.8 ^	245,000
Saflufenacil (H)						
Groundwater - Private Residence Wells	139	2	1.4	5.0 - 5.4	4.5 ^	322,000
Groundwater - School/Daycare Wells	139				4.5 ^	322,000
Siduron (H)						
Groundwater - Private Residence Wells	232	1	0.4	10 ^	1.0 - 2.1	1,050,000
Groundwater - School/Daycare Wells	372				1.0 - 2.1	1,050,000
Simazine (H)						
Groundwater - Private Residence Wells	231	12	5.2	1.2 - 120	0.71 - 30	
Groundwater - School/Daycare Wells	372	26	7	1.2 - 330	0.71 - 30	
Sulfometuron methyl (H)						
Groundwater - Private Residence Wells	232				0.76 - 2.5	1,925,000
Groundwater - School/Daycare Wells	372				0.76 - 2.5	1,925,000
Tebuconazole (F)						
Groundwater - Private Residence Wells	231	3	1.3	5.8 - 39	2.1 - 50	203,000
Groundwater - School/Daycare Wells	372				2.1 - 50	203,000
Tebupirimfos (I)						
Groundwater - Private Residence Wells	138				30 ^	100
Groundwater - School/Daycare Wells	139				30 ^	100
Tebuthiuron (H)						
Groundwater - Private Residence Wells	231	9	3.9	0.83 - 430	0.21 - 30	
Groundwater - School/Daycare Wells	372	37	9.9	0.35 - 9.7	0.21 - 30	
Tefluthrin (I)						
Groundwater - Private Residence Wells	93				2.1 ^	
Groundwater - School/Daycare Wells	233				2.1 ^	
Tembotrione (H)						
Groundwater - Private Residence Wells	232				5.5 - 70	3,000
Groundwater - School/Daycare Wells	372				5.5 - 70	3,000

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Terbacil (H)						
Groundwater - Private Residence Wells	93	1	1.1	2.7 ^	1.6 ^	
Groundwater - School/Daycare Wells	233				1.6 ^	
Terbufos (I)						
Groundwater - Private Residence Wells	231				6.3 - 30	
Groundwater - School/Daycare Wells	372				6.3 - 30	
Tetrachlorvinphos (I)						
Groundwater - Private Residence Wells	93				7.5 ^	296,000
Groundwater - School/Daycare Wells	233				7.5 ^	296,000
Tetraconazole (F)						
Groundwater - Private Residence Wells	231				1.2 - 30	51,000
Groundwater - School/Daycare Wells	372	1	0.3	3.2 ^	1.2 - 30	51,000
Tetradifon (I)						
Groundwater - Private Residence Wells	93				7.2 ^	
Groundwater - School/Daycare Wells	233				7.2 ^	
Tetramethrin (I)						
Groundwater - Private Residence Wells	93				28 ^	
Groundwater - School/Daycare Wells	233				28 ^	
Thiamethoxam (I)						
Groundwater - Private Residence Wells	232				6.1 - 7.5	84,000
Groundwater - School/Daycare Wells	372				6.1 - 7.5	84,000
Thifensulfuron (H)						
Groundwater - Private Residence Wells	93				3.4 - 8.9	
Groundwater - School/Daycare Wells	233				3.4 - 8.9	
Thifensulfuron methyl (H)						
Groundwater - Private Residence Wells	139				5.0 ^	301,000
Groundwater - School/Daycare Wells	139				5.0 ^	301,000
Thiobencarb (H)						
Groundwater - Private Residence Wells	232				2.5 - 7.7	
Groundwater - School/Daycare Wells	372				2.5 - 7.7	
Tri Allate (H)						
Groundwater - Private Residence Wells	231				12 - 30	175,000
Groundwater - School/Daycare Wells	372				12 - 30	175,000
Triadimefon (F)						
Groundwater - Private Residence Wells	93	2	2.2	2.2 ^	1.3 ^	238,000
Groundwater - School/Daycare Wells	233				1.3 ^	238,000
Triadimenol (F)						
Groundwater - Private Residence Wells	232	2	0.9	33.3 ^	6.0 - 20	24,000
Groundwater - School/Daycare Wells	372				6.0 - 20	24,000

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt ¹
Triasulfuron (H)						
Groundwater - Private Residence Wells	232				1.7 - 7.0	70,000
Groundwater - School/Daycare Wells	372				1.7 - 7.0	70,000
Triclopyr (H)						
Groundwater - Private Residence Wells	232	6	2.6	2.7 - 3600	1.6 - 15	350,000
Groundwater - School/Daycare Wells	372	15	4	2.7 - 17	1.6 - 15	350,000
Trifluralin (H)						
Groundwater - Private Residence Wells	138				30 ^	
Groundwater - School/Daycare Wells	139				30 ^	
Triticonazole (F)						
Groundwater - Private Residence Wells	231	1	0.4	50 ^	4.7 - 500	1,190,000
Groundwater - School/Daycare Wells	372				4.7 - 500	1,190,000

NOTES

¹ = EPA HHBP 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.

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

* = Metalaxyl and mefenoxam have separate registrations. Mefenoxam is also known as Metalaxyl-M, which is one of the spatial isomers comprising metalaxyl. The spatial isomers of metalaxyl are analytically indistinguishable via multiresidue methods.

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

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, Freshwater Aquatic Organism (FAOs) Criteria for ambient water, and Human Health Benchmarks for Pesticides (HHBPs) are also shown. Units for LODs, MCLs, HAs, FAOs, and HHBPs are shown in parts per trillion (ppt).

In 2011, the Pesticide Data Program (PDP) analyzed 239 drinking water samples, including 119 finished drinking water samples and 120 untreated (raw intake) drinking water samples. PDP detected 34 different residues (including metabolites), representing 26 pesticides, in finished drinking water and 36 different residues (including metabolites), representing 28 pesticides, in the untreated intake water; most of the detections were herbicides. None of the finished drinking water samples exceeded EPA MCLs, HAs, FAO criteria, or HHBP levels 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://water.epa.gov/drink/contaminants/index.cfm>. 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 MCL and HA values can be referenced at <http://water.epa.gov/drink/standardsriskmanagement.cfm>. 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://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm>. Health Advisories and FAO criteria are not legally enforceable Federal standards, but serve as technical guidance to assist Federal, State, and local officials. The HHBP values were developed for compounds with no established MCLs or HAs, enabling citizens to better determine whether the detection of a pesticide in drinking water or source waters for drinking water may indicate a potential health risk. The HHBP values can be referenced at <http://www.epa.gov/pesticides/hhbp/>.

EPA MCL, HA, FAO, and HHBP values are expressed in parts per million (ppm). Because drinking water residues are expressed in parts per trillion (ppt), EPA MCL, HA, FAO, and HHBP 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 (Type) / Commodity	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	EPA HHBP, ppt ¹
2,4,5-T (H)									
Water, Finished	118				1.8 ^				
Water, Untreated	120				1.8 ^				
2,4-D (H)									
Water, Finished	118	70	59.3	6.0 - 348	3.6 ^	70,000			
Water, Untreated	120	95	79.2	6.0 - 720	3.6 ^				
2,4-DB (H)									
Water, Finished	118				30 ^				
Water, Untreated	120				30 ^				
3-Hydroxycarbofuran (IM)									
Water, Finished	118				24 ^				
Water, Untreated	120				24 ^				
Acetochlor (H)									
Water, Finished	119	4	3.4	50 - 299	30 ^				140,000
Water, Untreated	120	5	4.2	50 - 167	30 ^				
Acetochlor ethanesulfonic acid (HM)									
Water, Finished	118	42	35.6	8.0 - 252	4.8 ^				
Water, Untreated	120	43	35.8	8.0 - 213	4.8 ^				
Acetochlor oxanilic acid (HM)									
Water, Finished	118	41	34.7	8.0 - 223	4.8 ^				
Water, Untreated	120	42	35	8.0 - 213	4.8 ^				
Alachlor (H)									
Water, Finished	119	1	0.8	16.3 ^	9.8 ^	2,000			
Water, Untreated	120	1	0.8	16.3 ^	9.8 ^				
Alachlor ethanesulfonic acid (HM)									
Water, Finished	118	42	35.6	8.0 - 34	4.8 ^				
Water, Untreated	120	43	35.8	8.0 - 33	4.8 ^				
Alachlor oxanilic acid (HM)									
Water, Finished	118	16	13.6	8.0 ^	4.8 ^				
Water, Untreated	120	15	12.5	8.0 ^	4.8 ^				
Aldicarb (I)									
Water, Finished	119				5.3 ^	3,000	7,000		
Water, Untreated	120				5.3 ^				
Atrazine (H)									
Water, Finished	119	118	99.2	3.8 - 1483	2.3 ^	3,000			
Water, Untreated	120	118	98.3	3.7 - 1351	2.2 ^				
Azinphos methyl (I)									
Water, Finished	119				18.8 ^				11,000
Water, Untreated	120				18.8 ^				
Benfluralin (H)									
Water, Finished	119				11.3 ^				35,000
Water, Untreated	120				11.3 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Bensulfuron methyl (H)									
Water, Finished	118				1.2 ^				1,400,000
Water, Untreated	120				1.2 ^				
Bentazon (H)									
Water, Finished	118	40	33.9	2.0 - 22	1.2 ^		200,000		
Water, Untreated	120	43	35.8	2.0 - 24	1.2 ^				
Bromacil (H)									
Water, Finished	118	1	0.8	60 ^	9.6 ^		70,000		
Water, Untreated	120	20	16.7	16 - 211	9.6 ^				
Bromoxynil (H)									
Water, Finished	118				6.0 ^				105,000
Water, Untreated	120				6.0 ^				
Butachlor (H)									
Water, Finished	119				5.3 ^				
Water, Untreated	120				5.3 ^				
Carbaryl (I)									
Water, Finished	118				12 ^				
Water, Untreated	120				12 ^				
Carbendazim - MBC (F)									
Water, Finished	118				1.8 ^				175,000
Water, Untreated	120				1.8 ^				
Carbofuran (I)									
Water, Finished	118				0.60 ^	40,000			
Water, Untreated	120				0.60 ^				
Carbophenothion (I)									
Water, Finished	119				6.0 ^				
Water, Untreated	120				6.0 ^				
Chloramben (H)									
Water, Finished	118				60 ^		100,000		
Water, Untreated	120				60 ^				
Chlorfenvinphos (I)									
Water, Finished	119				7.5 ^				
Water, Untreated	120				7.5 ^				
Chlorimuron ethyl (H)									
Water, Finished	118				8.4 ^				630,000
Water, Untreated	120				8.4 ^				
Chlorpyrifos (I)									
Water, Finished	119				6.0 ^		2,000		
Water, Untreated	120				6.0 ^			83	
Chlorpyrifos methyl (I)									
Water, Finished	119				11.3 ^				7,000
Water, Untreated	120				11.3 ^				
Coumaphos (I)									
Water, Finished	119				12 ^				2,000
Water, Untreated	120				12 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Coumaphos oxygen analog (IM)									
Water, Finished	119				30 ^				
Water, Untreated	120				30 ^				
Cyanazine (H)									
Water, Finished	119				24.8 ^		1000		
Water, Untreated	120				24.8 ^				
Cycloate (H)									
Water, Finished	118				6.0 ^				35,000
Water, Untreated	120				6.0 ^				
DCPA (H)									
Water, Finished	119				0.80 ^		70,000		
Water, Untreated	120				0.75 ^				
DCPA monoacid (H)									
Water, Finished	118				222 ^				
Water, Untreated	120				222 ^				
Desethyl atrazine (HM)									
Water, Finished	119	77	64.7	41.3 - 365	24.8 ^				
Water, Untreated	120	77	64.2	41.3 - 421	24.8 ^				
Desisopropyl atrazine (HM)									
Water, Finished	119	50	42	16.3 - 222	9.8 - 32.5				
Water, Untreated	120	48	40	16.3 - 168	9.8 - 32.5				
Diazinon (I)									
Water, Finished	119				4.5 ^		1,000		
Water, Untreated	120				4.5 ^				
Diazinon oxygen analog (IM)									
Water, Finished	119				4.5 ^				
Water, Untreated	120				4.5 ^				
Dichlobenil (H)									
Water, Finished	119				45 ^				70,000
Water, Untreated	120				45 ^				
Dichlorprop (H)									
Water, Finished	118				1.8 ^				
Water, Untreated	120				1.8 ^				
Dichlorvos - DDVP (I)									
Water, Finished	119				22.5 - 37.5				4,000
Water, Untreated	120				22.5 - 37.5				
Dicloran (F)									
Water, Finished	119				7.5 ^				175,000
Water, Untreated	120				7.5 ^				
Dicofol p,p' (I)									
Water, Finished	119				11.3 ^				
Water, Untreated	120				11.3 ^				
Dicrotophos (I)									
Water, Finished	119				6.0 ^				500
Water, Untreated	120				6.0 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Dimethenamid (H)									
Water, Finished	118	16	13.6	1.0 - 12	0.60 ^				350,000
Water, Untreated	120	35	29.2	1.0 - 20	0.60 ^				
Dimethoate (I)									
Water, Finished	119				7.5 - 25				15,000
Water, Untreated	120				7.5 - 25				
Dinoseb (H)									
Water, Finished	118	1	0.8	1.0 ^	0.60 ^	7,000	7,000		
Water, Untreated	120	5	4.2	1.0 ^	0.60 ^				
Diphenamid (H)									
Water, Finished	119				24 ^		200,000		
Water, Untreated	120				24 ^				
Disulfoton (I)									
Water, Finished	119				7.5 ^		700		
Water, Untreated	120				7.5 ^				
Disulfoton sulfone (IM)									
Water, Finished	119				12 ^				
Water, Untreated	120				12 ^				
Diuron (H)									
Water, Finished	118	18	15.3	16 - 1221	9.6 ^				
Water, Untreated	120	21	17.5	16 - 515	9.6 ^				
Endosulfan I (I)									
Water, Finished	119				22.5 ^				42,000
Water, Untreated	120				22.5 ^			220	
Endosulfan II (IM)									
Water, Finished	119				18.8 ^				42,000
Water, Untreated	120				18.8 ^			220	
Endosulfan sulfate (IM)									
Water, Finished	119				30 ^				42,000
Water, Untreated	120				30 ^				
EPTC (H)									
Water, Finished	119				61.9 ^				350,000
Water, Untreated	120				61.9 ^				
Ethalfuralin (H)									
Water, Finished	119				60 ^				280,000
Water, Untreated	120				60 ^				
Ethion (I)									
Water, Finished	119				2.3 ^				
Water, Untreated	120				2.3 ^				
Ethion mono oxon (IM)									
Water, Finished	119				3.8 ^				
Water, Untreated	120				3.8 ^				
Ethoprop (I)									
Water, Finished	119				6.0 ^				10,000
Water, Untreated	120				6.0 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Fenamiphos (I)									
Water, Finished	119				6.0 ^		700		
Water, Untreated	120				6.0 ^				
Fenamiphos sulfone (IM)									
Water, Finished	119				11.3 ^				
Water, Untreated	120				11.3 ^				
Fenamiphos sulfoxide (IM)									
Water, Finished	119				11.3 ^				
Water, Untreated	120				11.3 ^				
Fenarimol (F)									
Water, Finished	119				37.5 ^				42,000
Water, Untreated	120				37.5 ^				
Fenbuconazole (F)									
Water, Finished	118				3.0 ^				210,000
Water, Untreated	120				3.0 ^				
Fenitrothion (I)									
Water, Finished	119				20 - 40				9,000
Water, Untreated	120				20 - 40				
Fenitrothion oxygen analog (IM)									
Water, Finished	119				6.0 ^				
Water, Untreated	120				6.0 ^				
Fenpropathrin (I)									
Water, Finished	119				60 - 200				175,000
Water, Untreated	120				60 - 200				
Fenthion (I)									
Water, Finished	119				6.0 ^				490
Water, Untreated	120				6.0 ^				
Fenthion-O analog (IM)									
Water, Finished	119				11.3 ^				
Water, Untreated	120				11.3 ^				
Fenuron (H)									
Water, Finished	118				15 ^				
Water, Untreated	120				15 ^				
Fipronil (I)									
Water, Finished	118				12 ^				1,000
Water, Untreated	120				12 ^				
Fludioxonil (F)									
Water, Finished	119				37.5 ^				210,000
Water, Untreated	120				37.5 ^				
Flumetsulam (H)									
Water, Finished	118	2	1.7	23 - 25	6.0 ^				7,000,000
Water, Untreated	120	2	1.7	10 ^	6.0 ^				
Fluometuron (H)									
Water, Finished	118	5	4.2	2.0 - 18	1.2 ^		90,000		
Water, Untreated	120	6	5	2.0 - 19	1.2 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Fonofos (I)									
Water, Finished	119				7.5 ^		10,000		
Water, Untreated	120				7.5 ^				
Imazamethabenz methyl (H)									
Water, Finished	118				0.90 ^				
Water, Untreated	120				0.90 ^				
Imazamox (H)									
Water, Finished	118	1	0.8	4.0 ^	2.4 ^				
Water, Untreated	120	1	0.8	4.0 ^	2.4 ^				
Imazapic (H)									
Water, Finished	118				2.4 ^				3,500,000
Water, Untreated	120				2.4 ^				
Imazapyr (H)									
Water, Finished	118	50	42.4	1.5 - 19	0.90 ^				17,500,000
Water, Untreated	120	35	29.2	1.5 - 15	0.90 ^				
Imazaquin (H)									
Water, Finished	118				2.4 ^				1,750,000
Water, Untreated	120	1	0.8	4.0 ^	2.4 ^				
Imazethapyr (H)									
Water, Finished	118	12	10.2	4.0 - 11	2.4 ^				17,500,000
Water, Untreated	120	13	10.8	4.0 - 12	2.4 ^				
Imidacloprid (I)									
Water, Finished	118	35	29.7	2.5 - 99	1.5 ^				399,000
Water, Untreated	120	44	36.7	2.5 - 77	1.5 ^				
Isofenphos (I)									
Water, Finished	119				4.5 ^				
Water, Untreated	120				4.5 ^				
Lindane - BHC gamma (I)									
Water, Finished	119				11.3 ^	200			
Water, Untreated	120				11.3 ^			950	
Linuron (H)									
Water, Finished	118				3.0 ^				54,000
Water, Untreated	120				3.0 ^				
Malathion (I)									
Water, Finished	119				6.0 ^		100,000		
Water, Untreated	120	1	0.8	10 ^	6.0 ^				
Malathion oxygen analog (IM)									
Water, Finished	119				12 - 20				
Water, Untreated	120				12 - 20				
MCPA (H)									
Water, Finished	118	1	0.8	12 ^	7.2 ^		30,000		
Water, Untreated	120	2	1.7	12 ^	7.2 ^				
MCPB (H)									
Water, Finished	118				21 ^				
Water, Untreated	120				21 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Metalaxyl/Mefenoxam * (F)									
Water, Finished	119				22.5 ^				
Water, Untreated	120				22.5 ^				
Methidathion (I)									
Water, Finished	119				5.3 ^				11,000
Water, Untreated	120				5.3 ^				
Methidathion oxygen analog (IM)									
Water, Finished	119				22.5 ^				
Water, Untreated	120				22.5 ^				
Methiocarb (I)									
Water, Finished	118				15 ^				
Water, Untreated	120				15 ^				
Methomyl (I)									
Water, Finished	118				3.6 ^		200,000		
Water, Untreated	120				3.6 ^				
Methoxychlor olefin (IM)									
Water, Finished	119				3.8 ^	40,000	40,000		
Water, Untreated	120				3.8 ^				
Methoxychlor Total (I)									
Water, Finished	119				7.5 - 25	40,000	40,000		
Water, Untreated	120				7.5 - 25				
Metolachlor (H)									
Water, Finished	119	66	55.5	5.0 - 588	3.0 ^		700,000		
Water, Untreated	120	73	60.8	5.0 - 464	3.0 ^				
Metolachlor ethanesulfonic acid (HM)									
Water, Finished	118	69	58.5	8.0 - 322	4.8 ^				
Water, Untreated	120	82	68.3	8.0 - 265	4.8 ^				
Metolachlor oxanilic acid (HM)									
Water, Finished	118	49	41.5	8.0 - 181	4.8 ^				
Water, Untreated	120	68	56.7	8.0 - 181	4.8 ^				
Metribuzin (H)									
Water, Finished	119	15	12.6	37.5 - 3760	22.5 ^		70,000		
Water, Untreated	120	20	16.7	37.5 - 29742	22.5 ^				
Metsulfuron methyl (H)									
Water, Finished	118				8.4 ^				
Water, Untreated	120				8.4 ^				
Mevinphos (I)									
Water, Finished	119				45 - 75				2,000
Water, Untreated	120				45 - 75				
Molinate (H)									
Water, Finished	119				9.8 ^				
Water, Untreated	120				9.8 ^				
Monuron (H)									
Water, Finished	118				6.0 ^				
Water, Untreated	120				6.0 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Myclobutanil (F)									
Water, Finished	118				9.6 ^				175,000
Water, Untreated	120				9.6 ^				
Napropamide (H)									
Water, Finished	119				24 - 80				840,000
Water, Untreated	120				24 - 80				
Neburon (H)									
Water, Finished	118				1.2 ^				
Water, Untreated	120				1.2 ^				
Nicosulfuron (H)									
Water, Finished	118				4.8 ^				8,750,000
Water, Untreated	120				4.8 ^				
Norflurazon (H)									
Water, Finished	119				18.8 ^				105,000
Water, Untreated	120				18.8 ^				
Norflurazon desmethyl (HM)									
Water, Finished	119				37.5 - 125				
Water, Untreated	120				37.5 - 125				
Oxadiazon (H)									
Water, Finished	119				15 ^				
Water, Untreated	120				15 ^				
Oxadixyl (F)									
Water, Finished	119				48.8 ^				
Water, Untreated	120				48.8 ^				
Oxamyl (I)									
Water, Finished	118				18 ^	200,000			
Water, Untreated	120				18 ^				
Oxydemeton methyl sulfone (IM)									
Water, Finished	119				22.5 ^				
Water, Untreated	120				22.5 ^				
Oxyfluorfen (H)									
Water, Finished	119				11.3 - 37.5				210,000
Water, Untreated	120				11.3 - 37.5				
Parathion (I)									
Water, Finished	119				15 - 50				200
Water, Untreated	120				15 - 50			65	
Parathion oxygen analog (IM)									
Water, Finished	119				7.5 ^				
Water, Untreated	120				7.5 ^				
Parathion methyl (I)									
Water, Finished	119				62.5 - 150				
Water, Untreated	120				62.5 - 150			65	
Parathion methyl oxygen analog (IM)									
Water, Finished	119				9.8 ^				
Water, Untreated	120				9.8 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Pebulate (H)									
Water, Finished	119				3.8 ^				49,000
Water, Untreated	120				3.8 ^				
Pendimethalin (H)									
Water, Finished	119	7	5.9	7.5 - 76	4.5 ^				210,000
Water, Untreated	120				4.5 ^				
Phenthoate (I)									
Water, Finished	119				15 ^				
Water, Untreated	120				15 ^				
Phorate (I)									
Water, Finished	119				15 ^				4,000
Water, Untreated	120				15 ^				
Phorate oxygen analog (IM)									
Water, Finished	119				5.3 ^				
Water, Untreated	120				5.3 ^				
Phorate sulfone (IM)									
Water, Finished	119				6.0 ^				
Water, Untreated	120				6.0 ^				
Phorate sulfoxide (IM)									
Water, Finished	119				22.5 ^				
Water, Untreated	120				22.5 ^				
Phosalone (I)									
Water, Finished	119				4.5 ^				
Water, Untreated	120				4.5 ^				
Phosphamidon (I)									
Water, Finished	119				22.5 - 40				
Water, Untreated	120				22.5 - 40				
Picloram (H)									
Water, Finished	118				30 ^	500,000			
Water, Untreated	120				30 ^				
Piperonyl butoxide (I)									
Water, Finished	114	1	0.9	95 ^	11.3 ^				1,085,000
Water, Untreated	115	1	0.9	62 ^	11.3 ^				
Pirimicarb (I)									
Water, Finished	119				37.5 ^				
Water, Untreated	120				37.5 ^				
Pirimiphos methyl (I)									
Water, Finished	119				2.3 ^				1,000
Water, Untreated	120				2.3 ^				
Profenofos (I)									
Water, Finished	119				12 ^				40
Water, Untreated	120				12 ^				
Prometon (H)									
Water, Finished	109	37	33.9	2.5 - 23	1.5 ^		100,000		
Water, Untreated	110	51	46.4	2.5 - 14	1.5 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Prometryn (H)									
Water, Finished	119				24 ^				280,000
Water, Untreated	120				24 ^				
Pronamide (H)									
Water, Finished	119				22.5 ^				
Water, Untreated	120				22.5 ^				
Propachlor (H)									
Water, Finished	119				5.3 ^				
Water, Untreated	120				5.3 ^				
Propanil (H)									
Water, Finished	119				24.8 ^				63,000
Water, Untreated	120				24.8 ^				
Propargite (I)									
Water, Finished	114				90 - 600				280,000
Water, Untreated	115				90 - 600				
Propazine (H)									
Water, Finished	119	3	2.5	7.5 ^	4.5 ^		100,000		
Water, Untreated	120	7	5.8	7.5 ^	4.5 ^				
Propetamphos (I)									
Water, Finished	119				9.8 ^				4,000
Water, Untreated	120				9.8 ^				
Propham (H)									
Water, Finished	118				18 ^		100,000		
Water, Untreated	120				18 ^				
Propiconazole (F)									
Water, Finished	118				6.0 ^				700,000
Water, Untreated	120	2	1.7	10 ^	6.0 ^				
Propoxur (I)									
Water, Finished	119				24.8 ^				
Water, Untreated	120				24.8 ^				
Quintozene - PCNB (F)									
Water, Finished	119				11.3 ^				700,000
Water, Untreated	120				11.3 ^				
Siduron (H)									
Water, Finished	118				2.4 ^				1,050,000
Water, Untreated	120				2.4 ^				
Simazine (H)									
Water, Finished	119	70	58.8	6.3 - 230	3.8 ^	4,000			
Water, Untreated	120	82	68.3	6.2 - 264	3.8 ^				
Sulfometuron methyl (H)									
Water, Finished	118				12 ^				1,925,000
Water, Untreated	120				12 ^				
Sulfotep (I)									
Water, Finished	119				4.5 - 4.7				
Water, Untreated	120				4.5 - 4.7				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Sulprofos (I)									
Water, Finished	119				6.0 ^				
Water, Untreated	120				6.0 ^				
Tebuconazole (F)									
Water, Finished	118	4	3.4	8.0 - 35	4.8 ^				203,000
Water, Untreated	120	4	3.3	8.0 - 56	4.8 ^				
Tebupirimfos (I)									
Water, Finished	119				5.3 ^				100
Water, Untreated	120				5.3 ^				
Tebupirimfos oxygen analog (IM)									
Water, Finished	119				4.5 ^				
Water, Untreated	120				4.5 ^				
Tebuthiuron (H)									
Water, Finished	118	86	72.9	1.0 - 10	0.60 ^		500,000		
Water, Untreated	120	94	78.3	1.0 - 5.6	0.60 ^				
Tecnazene (P)									
Water, Finished	119				18.8 ^				
Water, Untreated	120				18.8 ^				
Terbacil (H)									
Water, Finished	119				22.5 ^		90,000		
Water, Untreated	120				22.5 ^				
Terbufos (I)									
Water, Finished	119				11.3 ^		400		
Water, Untreated	120				11.3 ^				
Terbufos sulfone (IM)									
Water, Finished	119				4.5 ^				
Water, Untreated	120				4.5 ^				
Terbufos-O analog (IM)									
Water, Finished	119				6.0 ^				
Water, Untreated	120				6.0 ^				
Tetrachlorvinphos (I)									
Water, Finished	119				6.0 ^				296,000
Water, Untreated	120				6.0 ^				
Tetraconazole (F)									
Water, Finished	118				1.8 ^				51,000
Water, Untreated	120				1.8 ^				
Tetradifon (I)									
Water, Finished	119				37.5 ^				
Water, Untreated	120				37.5 ^				
Thiobencarb (H)									
Water, Finished	118				18 ^				
Water, Untreated	120				18 ^				
Tri Allate (H)									
Water, Finished	119				24.8 ^				175,000
Water, Untreated	120				24.8 ^				

Pesticide (Type) / Commodity	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	EPA HHBP, ppt ¹
Triadimefon (F)									
Water, Finished	118				8.4 ^				238,000
Water, Untreated	120				8.4 ^				
Triclopyr (H)									
Water, Finished	118	20	16.9	10 - 211	6.0 ^				350,000
Water, Untreated	120	26	21.7	10 - 203	6.0 ^				
Trifluralin (H)									
Water, Finished	119				1.5 ^		10,000		
Water, Untreated	120				1.5 ^				

NOTES

¹ = EPA MCL, HA, FAO, and HHBP 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.

* = Metalaxyl and mefenoxam have separate registrations. Mefenoxam is also known as Metalaxyl-M, which is one of the spatial isomers comprising metalaxyl. The spatial isomers of metalaxyl are analytically indistinguishable via multiresidue methods.

Pesticide Types:

F = Fungicide

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 19 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 2011 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)						
Baby Food - Green Beans	584	0			0.002 ^	0.05 AL
Baby Food - Pears	585	0			0.007 ^	0.03 AL
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.1 AL
Beets, Canned	756	0			0.002 - 0.008	0.1 AL
Cantaloupe	739	0			0.010 ^	0.1 AL
Cauliflower	186	0			0.003 ^	0.03 AL
Cherry Tomatoes	738	0			0.004 - 0.022	0.05 AL
Eggs	371	0			0.015 ^	0.03 AL
Hot Peppers	538	0			0.002 - 0.10	0.05 AL
Lettuce	744	0			0.003 ^	0.03 AL
Milk	743	0			0.0072 ^	0.3 AL
Mushrooms	186	0			0.003 ^	NT
Onion	186	0			0.003 - 0.050	0.1 AL
Orange Juice	585	0			0.003 ^	0.02 AL
Papaya	384	0			0.050 ^	NT
Plums	143	0			0.003 ^	0.03 AL
Snap Peas	744	0			0.001 - 0.007	0.05 AL
Soybean Grain	300	0			0.0125 ^	0.05 AL
Spinach, Canned	198	0			0.050 ^	0.05 AL
Spinach, Frozen	198	0			0.050 ^	0.05 AL
Sweet Bell Peppers	741	0			0.006 ^	0.05 AL
Tangerines	717	0			0.010 ^	0.02 AL
Water, Groundwater	326	0			9.6 ^ (ppt)	
Winter Squash	<u>186</u>	<u>0</u>			0.003 ^	0.1 AL
TOTAL	11,463	0				
BHC alpha (isomer of BHC alpha)						
Baby Food - Green Beans	584	0			0.002 ^	0.05 AL
Baby Food - Pears	585	0			0.007 ^	0.05 AL
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.05 AL
Beets, Canned	756	0			0.002 - 0.025	0.05 AL
Cantaloupe	739	0			0.010 ^	0.05 AL
Cauliflower	186	0			0.001 ^	0.05 AL
Cherry Tomatoes	738	0			0.004 - 0.032	0.05 AL
Eggs	371	0			0.003 ^	0.05 AL
Hot Peppers	553	0			0.002 - 0.10	0.05 AL
Lettuce	744	0			0.012 ^	0.05 AL
Milk	743	0			0.0067 ^	NT
Mushrooms	186	0			0.012 ^	NT
Onion	186	0			0.002 - 0.040	0.05 AL
Orange Juice	585	0			0.012 ^	0.05 AL
Papaya	384	0			0.040 ^	NT
Plums	143	0			0.002 ^	0.05 AL
Snap Peas	744	0			0.001 - 0.007	0.05 AL
Spinach, Canned	198	0			0.10 ^	0.05 AL
Spinach, Frozen	198	0			0.10 ^	0.05 AL
Sweet Bell Peppers	741	0			0.005 ^	0.05 AL
Tangerines	717	0			0.010 ^	0.05 AL
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	0.05 AL
TOTAL	10,852	0				
BHC beta (isomer of BHC alpha)						
Cantaloupe	573	0			0.010 ^	0.05 AL
Cherry Tomatoes	738	0			0.004 - 0.035	0.05 AL
Eggs	371	0			0.015 ^	0.05 AL
Hot Peppers	274	0			0.20 ^	0.05 AL
Mushrooms	186	0			0.014 ^	NT
Onion	93	0			0.10 ^	0.05 AL
Orange Juice	585	0			0.014 ^	0.05 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
Papaya	384	0			0.060 ^	NT
Spinach, Canned	198	0			0.030 ^	0.05 AL
Spinach, Frozen	198	0			0.030 ^	0.05 AL
Tangerines	554	0			0.010 ^	0.05 AL
TOTAL	4,154	0				
Chlordane cis (insecticide) (isomer of Chlordane)						
Baby Food - Green Beans	584	0			0.002 ^	0.1 AL
Baby Food - Pears	585	0			0.001 ^	0.1 AL
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.1 AL
Beets, Canned	756	0			0.002 - 0.005	0.1 AL
Cantaloupe	739	0			0.010 ^	0.1 AL
Cauliflower	186	0			0.003 ^	0.1 AL
Cherry Tomatoes	738	0			0.003 - 0.015	0.1 AL
Eggs	371	0			0.005 ^	NT
Hot Peppers	553	0			0.002 - 0.10	0.1 AL
Lettuce	744	0			0.004 ^	0.1 AL
Milk	743	0			0.001 ^	NT
Mushrooms	186	0			0.004 ^	NT
Onion	186	0			0.002 - 0.010	0.1 AL
Orange Juice	585	0			0.004 ^	0.1 AL
Papaya	384	0			0.030 ^	0.1 AL
Plums	143	0			0.002 ^	0.1 AL
Snap Peas	744	0			0.001 - 0.002	0.1 AL
Spinach, Canned	198	0			0.070 ^	0.1 AL
Spinach, Frozen	198	0			0.070 ^	0.1 AL
Sweet Bell Peppers	741	0			0.005 ^	0.1 AL
Tangerines	717	0			0.010 ^	0.1 AL
Water, Finished	119	0			2.3 ^ (ppt)	
Water, Untreated	120	0			2.3 ^ (ppt)	
Winter Squash	186	6	3.2	0.003 - 0.014	0.002 ^	0.1 AL
TOTAL	11,091	6				
Chlordane trans (isomer of Chlordane)						
Baby Food - Green Beans	584	0			0.002 ^	0.1 AL
Baby Food - Pears	585	0			0.001 ^	0.1 AL
Baby Food - Sweet Potatoes	585	0			0.002 ^	0.1 AL
Beets, Canned	756	0			0.002 - 0.005	0.1 AL
Cantaloupe	739	0			0.010 ^	0.1 AL
Cauliflower	186	0			0.003 ^	0.1 AL
Cherry Tomatoes	738	0			0.004 - 0.022	0.1 AL
Eggs	371	0			0.005 ^	NT
Hot Peppers	553	0			0.002 - 0.10	0.1 AL
Lettuce	744	0			0.004 ^	0.1 AL
Milk	743	0			0.001 ^	NT
Mushrooms	186	0			0.004 ^	NT
Onion	186	0			0.002 - 0.010	0.1 AL
Orange Juice	585	0			0.004 ^	0.1 AL
Papaya	384	0			0.030 ^	0.1 AL
Plums	143	0			0.002 ^	0.1 AL
Snap Peas	744	0			0.001 - 0.002	0.1 AL
Spinach, Canned	198	0			0.030 ^	0.1 AL
Spinach, Frozen	198	0			0.030 ^	0.1 AL
Sweet Bell Peppers	741	0			0.005 ^	0.1 AL
Tangerines	717	0			0.010 ^	0.1 AL
Water, Finished	119	0			2.3 ^ (ppt)	
Water, Untreated	120	0			2.3 ^ (ppt)	
Winter Squash	186	6	3.2	0.003 - 0.007	0.002 ^	0.1 AL
TOTAL	11,091	6				
DDD o,p' (metabolite of DDT)						
Baby Food - Pears	552	0			0.001 ^	0.1 AL
Cauliflower	186	0			0.001 ^	0.5 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
Milk	711	0			0.001 ^	1.25 AL
Snap Peas	341	0			0.001 ^	0.2 AL
Water, Finished	119	0			3.8 ^ (ppt)	
Water, Untreated	120	0			3.8 ^ (ppt)	
TOTAL	2,029	0				
DDD p,p' (metabolite of DDT)						
Baby Food - Green Beans	584	0			0.003 ^	0.2 AL
Baby Food - Pears	585	0			0.001 ^	0.1 AL
Baby Food - Sweet Potatoes	585	0			0.004 ^	1 AL
Beets, Canned	756	0			0.003 - 0.004	0.2 AL
Cantaloupe	739	0			0.010 ^	0.1 AL
Cauliflower	186	0			0.001 ^	0.5 AL
Cherry Tomatoes	738	0			0.003 - 0.015	0.05 AL
Eggs	371	0			0.005 ^	0.5 AL
Hot Peppers	553	0			0.003 - 0.10	0.1 AL
Lettuce	744	0			0.005 ^	0.5 AL
Milk	743	0			0.001 ^	1.25 AL
Mushrooms	186	0			0.005 ^	0.5 AL
Onion	186	0			0.002 - 0.015	0.2 AL
Orange Juice	585	0			0.005 ^	0.1 AL
Papaya	384	0			0.020 ^	0.2 AL
Plums	143	0			0.002 ^	0.2 AL
Snap Peas	744	0			0.001 - 0.003	0.2 AL
Soybean Grain	300	0			0.0015 ^	0.2 AL
Spinach, Canned	198	0			0.030 ^	0.5 AL
Spinach, Frozen	198	0			0.030 ^	0.5 AL
Sweet Bell Peppers	741	0			0.001 ^	0.1 AL
Tangerines	717	0			0.010 ^	0.1 AL
Water, Finished	119	0			3.8 ^ (ppt)	
Water, Untreated	120	0			3.8 ^ (ppt)	
Winter Squash	186	2	1.1	0.003 ^	0.002 ^	0.1 AL
TOTAL	11,391	2				
DDE p,p' (metabolite of DDT)						
Baby Food - Green Beans	584	0			0.003 ^	0.2 AL
Baby Food - Pears	585	0			0.002 ^	0.1 AL
Baby Food - Sweet Potatoes	585	0			0.004 ^	1 AL
Beets, Canned	756	0			0.002 - 0.004	0.2 AL
Cantaloupe	739	0			0.010 ^	0.1 AL
Cauliflower	186	0			0.003 ^	0.5 AL
Cherry Tomatoes	738	0			0.004 - 0.031	0.05 AL
Eggs	371	0			0.005 ^	0.5 AL
Hot Peppers	553	0			0.003 - 0.050	0.1 AL
Lettuce	744	0			0.010 ^	0.5 AL
Milk	738	4	0.5	0.0032 ^	0.0019 ^	1.25 AL
Mushrooms	186	0			0.010 ^	0.5 AL
Onion	186	0			0.002 - 0.005	0.2 AL
Orange Juice	585	0			0.010 ^	0.1 AL
Papaya	384	0			0.020 ^	0.2 AL
Plums	143	0			0.002 ^	0.2 AL
Snap Peas	744	2	0.3	0.002 - 0.003	0.001 - 0.003	0.2 AL
Soybean Grain	300	1	0.3	0.0031 ^	0.0019 ^	0.2 AL
Spinach, Canned	198	0			0.010 ^	0.5 AL
Spinach, Frozen	198	10	5.1	0.010 - 0.027	0.010 ^	0.5 AL
Sweet Bell Peppers	741	17	2.3	0.001 - 0.004	0.001 - 0.005	0.1 AL
Tangerines	717	0			0.010 ^	0.1 AL
Water, Finished	119	0			7.5 ^ (ppt)	
Water, Untreated	120	0			7.5 ^ (ppt)	
Winter Squash	186	16	8.6	0.003 - 0.006	0.002 ^	0.1 AL
TOTAL	11,386	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
DDT o,p' (insecticide)						
Baby Food - Pears	585	0			0.001 ^	0.1 AL
Cauliflower	186	0			0.001 ^	0.5 AL
Milk	743	0			0.001 ^	1.25 AL
Snap Peas	372	0			0.001 ^	0.2 AL
Water, Finished	119	0			3.8 ^ (ppt)	
Water, Untreated	120	0			3.8 ^ (ppt)	
TOTAL	2,125	0				
DDT p,p' (insecticide)						
Baby Food - Green Beans	462	0			0.003 - 0.020	0.2 AL
Baby Food - Pears	585	0			0.002 ^	0.1 AL
Baby Food - Sweet Potatoes	585	0			0.004 ^	1 AL
Beets, Canned	725	0			0.003 - 0.075	0.2 AL
Cauliflower	186	0			0.003 ^	0.5 AL
Cherry Tomatoes	738	0			0.009 - 0.012	0.05 AL
Eggs	371	0			0.005 ^	0.5 AL
Hot Peppers	279	0			0.003 ^	0.1 AL
Milk	743	0			0.0019 ^	1.25 AL
Onion	93	0			0.003 ^	0.2 AL
Plums	143	0			0.005 ^	0.2 AL
Snap Peas	636	0			0.001 - 0.020	0.2 AL
Tangerines	637	0			0.010 ^	0.1 AL
Water, Finished	119	0			3.8 ^ (ppt)	
Water, Untreated	120	0			3.8 ^ (ppt)	
Winter Squash	186	2	1.1	0.005 ^	0.003 ^	0.1 AL
TOTAL	6,608	2				
Dieldrin (insecticide) (also a metabolite of Aldrin)						
Baby Food - Green Beans	584	0			0.002 ^	0.05 AL
Baby Food - Pears	585	0			0.005 ^	0.03 AL
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.1 AL
Beets, Canned	756	0			0.002 - 0.020	0.1 AL
Cantaloupe	739	9	1.2	0.011 - 0.040	0.010 ^	0.1 AL
Cauliflower	186	0			0.002 ^	0.03 AL
Cherry Tomatoes	738	0			0.004 - 0.047	0.05 AL
Eggs	371	0			0.005 ^	0.03 AL
Hot Peppers	553	0			0.002 - 0.40	0.05 AL
Lettuce	589	1	0.2	0.004 ^	0.002 ^	0.03 AL
Milk	743	0			0.0048 ^	0.3 AL
Mushrooms	186	0			0.002 ^	NT
Onion	186	0			0.006 - 0.020	0.1 AL
Orange Juice	486	0			0.002 ^	0.02 AL
Papaya	384	0			0.050 ^	NT
Plums	143	0			0.006 ^	0.03 AL
Snap Peas	744	0			0.002 - 0.006	0.05 AL
Soybean Grain	300	0			0.0024 ^	0.05 AL
Sweet Bell Peppers	741	0			0.004 ^	0.05 AL
Tangerines	717	0			0.010 ^	0.02 AL
Water, Finished	119	0			15 ^ (ppt)	
Water, Untreated	120	0			15 ^ (ppt)	
Winter Squash	186	19	10.2	0.010 - 0.059	0.006 ^	0.1 AL
TOTAL	10,741	29				
Endrin (insecticide)						
Baby Food - Green Beans	584	0			0.003 ^	0.05 AL
Baby Food - Pears	585	0			0.007 ^	NT
Baby Food - Sweet Potatoes	585	0			0.004 ^	0.05 AL
Beets, Canned	756	0			0.003 - 0.030	0.05 AL
Cantaloupe	718	0			0.010 ^	0.05 AL
Cauliflower	186	0			0.025 ^	0.05 AL
Cherry Tomatoes	738	0			0.004 - 0.085	0.05 AL
Eggs	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
Hot Peppers	553	0			0.003 - 0.40	0.05 AL
Lettuce	744	1	0.1	0.027 ^	0.004 ^	0.05 AL
Milk	743	0			0.0067 ^	NT
Mushrooms	186	0			0.004 ^	0.05 AL
Onion	186	0			0.003 - 0.050	0.05 AL
Orange Juice	585	0			0.004 ^	NT
Papaya	384	0			0.040 ^	NT
Plums	143	0			0.003 ^	0.05 AL
Snap Peas	744	1	0.1	0.005 ^	0.003 - 0.008	0.05 AL
Soybean Grain	300	0			0.0054 ^	0.05 AL
Spinach, Canned	198	0			0.040 ^	0.05 AL
Spinach, Frozen	198	0			0.040 ^	0.05 AL
Sweet Bell Peppers	741	0			0.006 ^	0.05 AL
Tangerines	698	0			0.010 ^	NT
Water, Finished	119	0			30 ^ (ppt)	
Water, Untreated	120	0			30 ^ (ppt)	
Winter Squash	186	2	1.1	0.005 ^	0.003 ^	0.05 AL
TOTAL	11,351	4				
Heptachlor (insecticide)						
Baby Food - Green Beans	584	0			0.002 ^	0.01 AL
Baby Food - Pears	585	0			0.002 ^	0.01 AL
Baby Food - Sweet Potatoes	585	0			0.003 ^	0.01 AL
Beets, Canned	756	0			0.002 - 0.010	NT
Cantaloupe	697	0			0.010 - 0.050	0.02 AL
Cauliflower	186	0			0.003 ^	0.01 AL
Cherry Tomatoes	738	0			0.004 - 0.034	0.01 AL
Eggs	371	0			0.005 ^	0.01 AL
Hot Peppers	279	0			0.002 ^	0.01 AL
Lettuce	713	0			0.002 ^	0.01 AL
Milk	743	0			0.0019 ^	0.1 AL
Mushrooms	186	0			0.002 ^	NT
Onion	186	0			0.003 - 0.025	0.01 AL
Orange Juice	585	0			0.002 ^	0.01 AL
Papaya	384	0			0.040 ^	NT
Plums	143	0			0.003 - 0.010	0.01 AL
Snap Peas	744	0			0.001 - 0.003	0.01 AL
Spinach, Canned	198	0			0.040 ^	0.01 AL
Spinach, Frozen	198	0			0.040 ^	0.01 AL
Sweet Bell Peppers	741	0			0.010 ^	0.01 AL
Tangerines	717	0			0.010 ^	0.01 AL
Winter Squash	186	0			0.003 ^	0.02 AL
TOTAL	10,505	0				
Heptachlor epoxide (metabolite of Heptachlor)						
Baby Food - Green Beans	584	0			0.003 ^	0.01 AL
Baby Food - Pears	585	0			0.004 ^	0.01 AL
Baby Food - Sweet Potatoes	585	0			0.004 ^	0.01 AL
Beets, Canned	756	0			0.003 - 0.040	NT
Cantaloupe	739	0			0.010 ^	0.02 AL
Cauliflower	186	0			0.012 ^	0.01 AL
Eggs	371	0			0.005 ^	0.01 AL
Hot Peppers	279	0			0.003 ^	0.01 AL
Lettuce	744	0			0.001 ^	0.01 AL
Milk	743	0			0.0038 ^	0.1 AL
Mushrooms	186	0			0.001 ^	NT
Onion	186	0			0.003 - 0.025	0.01 AL
Orange Juice	585	0			0.001 ^	0.01 AL
Papaya	384	0			0.040 ^	NT
Plums	143	0			0.003 ^	0.01 AL
Snap Peas	744	0			0.003 - 0.004	0.01 AL
Spinach, Canned	198	0			0.040 ^	0.01 AL
Spinach, Frozen	198	0			0.040 ^	0.01 AL

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Sweet Bell Peppers	741	0			0.024 ^	0.01 AL
Tangerines	717	0			0.010 ^	0.01 AL
Water, Finished	119	0			15 ^ (ppt)	
Water, Untreated	120	0			15 ^ (ppt)	
Winter Squash	<u>186</u>	<u>2</u>	1.1	0.005 ^	0.003 ^	0.02 AL
TOTAL	10,079	2				
Heptachlor epoxide cis (metabolite of Heptachlor)						
Cherry Tomatoes	<u>738</u>	<u>0</u>			0.004 - 0.085	0.01 AL
TOTAL	738	0				
Hexachlorobenzene - HCB (metabolite and impurity of Quintozene)						
Baby Food - Green Beans	584	0			0.002 ^	0.1
Baby Food - Pears	585	0			0.001 ^	NT
Baby Food - Sweet Potatoes	585	0			0.002 ^	NT
Beets, Canned	373	0			0.002 ^	NT
Cabbage	742	0			0.035 ^	NT
Cantaloupe	739	0			0.010 ^	NT
Cauliflower	186	0			0.003 ^	0.1
Cherry Tomatoes	738	0			0.004 - 0.060	0.1
Eggs	331	0			0.003 ^	NT
Hot Peppers	538	0			0.002 - 0.070	0.1
Lettuce	744	0			0.003 ^	NT
Milk	743	0			0.0014 ^	NT
Mushrooms	186	0			0.003 ^	NT
Onion	93	0			0.002 ^	NT
Orange Juice	585	0			0.003 ^	NT
Plums	143	0			0.002 ^	NT
Snap Peas	744	0			0.001 - 0.002	NT
Tangerines	717	0			0.010 ^	NT
Winter Squash	<u>186</u>	<u>0</u>			0.002 ^	NT
TOTAL	9,542	0				
Nonachlor cis (insecticide metabolite)						
Eggs	<u>371</u>	<u>0</u>			0.001 ^	NT
TOTAL	371	0				
Nonachlor trans (insecticide metabolite)						
Eggs	<u>371</u>	<u>0</u>			0.005 ^	NT
TOTAL	371	0				
Oxychlordan (metabolite of Chlordane)						
Baby Food - Pears	585	0			0.002 ^	0.1 AL
Cauliflower	186	0			0.008 ^	0.1 AL
Cherry Tomatoes	738	0			0.009 - 0.070	0.1 AL
Eggs	371	0			0.010 ^	NT
Milk	727	0			0.0024 ^	NT
Mushrooms	186	0			0.004 ^	NT
Orange Juice	585	0			0.004 ^	0.1 AL
Snap Peas	372	0			0.002 ^	0.1 AL
Water, Finished	119	0			7.5 - 25 (ppt)	
Water, Untreated	<u>120</u>	<u>0</u>			7.5 - 25 (ppt)	
TOTAL	3,989	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.

(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, egg, and milk 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, egg, and milk samples originated from 39 States and 18 foreign countries. There were 434 samples from mixed national origins (multiple countries). There were 359 domestic samples from unknown States. There were an additional 83 samples from unknown origins. Overall, for all samples except soybeans, groundwater and drinking water, 72.7 percent were from U.S. sources, 22.8 percent were imports, 3.8 percent were of mixed national origin, and 0.7 percent were of unknown origin.

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

Part 1. Domestic Samples

	Fresh F&V														Processed F&V						Other		# of Samples	% of Total	
	CF	CG	CN	CT	HP	LT	MU	ON	PP	PU	SN	TA	WS	YA	BT	IG	IP	IS	OJ	SC	SF	EG			MK
Alabama				5																		1		6	0.1
Arizona		8	60	2	2	3	1		1			3	6									2		88	0.8
Arkansas										17					44		1		1	32	8	9	14	126	1.1
California	169	185	242	51	51	624	56	25	175	130	178	196	40	13	236		9	8	14	78	33	78	133	2,724	23.5
Colorado		29	1	2	1	3	2	12									3	6				4	31	100	0.9
Connecticut				1					1													1		3	<0.1
Delaware		4																						4	<0.1
Florida	2	67	46	165	46	18	2	1	113	1	4	231	5		20				97	8	9	23	43	901	7.8
Georgia		19	2	4	20				47						2			5				2		103	0.9
Hawaii														61										61	0.5
Idaho						2		24		1					16						3	1	6	53	0.5
Illinois		2		2	1		1	1	1						74		7	4	1	12	10	11	32	159	1.4
Indiana				2	1				1			1										11		16	0.1
Iowa																						2		2	<0.1
Kansas																							3	3	<0.1
Kentucky		1		9					1				1										4	16	0.1
Maine															8				2	4	2	3	2	21	0.2
Maryland		8		14	6	10	8	2	6	3	1				14				3	5	11	24	115	1.0	
Massachusetts				4	1								1						1		1		4	12	0.1
Michigan		31		11	16	1		4	10						36	481	241	450	2	10	6	22	49	1,387	12.0
Minnesota				1		1									26		1		5	3	17	13	27	94	0.8
Mississippi			1																			15		16	0.1
Missouri				1											8					2	3	3	8	25	0.2
Nevada								15														1		16	0.1
New Hampshire															2						1		4	7	0.1
New Jersey		12		6	6	3			10			4	1		27				1	6	3	7	24	110	0.9
New Mexico		2				2		2																6	0.1
New York	1	33		9	10	2		6	4	1	1	3	9		62	94	104	106	1	5	30	17	51	549	4.7
North Carolina		17		12	27				16						19				1	6	6	7	15	127	1.1
Ohio		22	3	8	8	2	4	5	16	3	10	1	7		60				5	14	18	29	71	286	2.5
Oregon		4		1					11	1					18					3	5	7	3	54	0.5
Pennsylvania		4		9			40	2							17			1	2		2	38	10	125	1.1
South Carolina				27					5											1				33	0.3
Tennessee					3	1			1												3	12		20	0.2
Texas	1	115	36	21	12	28	17	12	17		4	3	4	2	40	1	1	1	4	3	7	27	116	472	4.1
Utah				1				4														3		8	0.1
Virginia				6					1								1						3	11	0.1
Washington	1	15	1	4	7	9	1	30	3	1	4		8		5					1	3	2	32	127	1.1
Wisconsin	1	12		4	2	1	1	2	2			1	2		10	3	2	2	3	2		5	29	84	0.7
Unknown State	2	108	15	18	50	14	33	9	39	1	3	13	16	2	6	3	5	6	5	2	1	8		359	3.1
No. of Domestic	177	698	407	400	270	724	166	168	470	141	222	456	127	78	750	582	375	584	150	198	185	360	741	8,429	
% of Total	95	94	55	54	49	97	89	90	63	99	30	64	68	20	99	99	64	99	26	100	93	97	99		72.7

Part 2. Imported Samples

	Fresh F&V														Processed F&V						Other		# of Samples	% of Total				
	CF	CG	CN	CT	HP	LT	MU	ON	PP	PU	SN	TA	WS	YA	BT	IG	IP	IS	OJ	SC	SF	EG			MK			
Australia											16																16	0.1
Belize													107														107	0.9
Brazil													106						5								111	1.0
Canada	2	25	1	10	1	5	17		30			2			1		22										116	1.0
Chile										1		133					176										310	2.7
China																					4						4	<0.1
Costa Rica				23																							23	0.2
Dominican					5	3			3																		11	0.1
Guatemala				169	1	1						343		15													529	4.6
Honduras				115					1																		116	1.0
Israel									2																		2	<0.1
Jamaica													4														4	<0.1
Mexico	5	12	22	317	257	10	3	1	215		90	3	57	70	3				6		7						1,078	9.3
Morocco												9															9	0.1
Netherlands									11																		11	0.1
Peru									16		86	62					1										165	1.4
South Africa												16															16	0.1
Spain									3			17															20	0.2
No. of Imports	7	37	330	333	262	15	20	17	265	1	519	256	59	302	4	0	199	0	11	0	11	0	0	0	2,648			
% of Total	4	5	45	45	47	2	11	9	36	1	70	36	32	79	1	0	34	0	2	0	6	0	0	0		22.8		

Part 3. Mixed National Origin Samples

	Fresh F&V														Processed F&V						Other		# of Samples	% of Total				
	CF	CG	CN	CT	HP	LT	MU	ON	PP	PU	SN	TA	WS	YA	BT	IG	IP	IS	OJ	SC	SF	EG			MK			
Belize / Brazil / Costa Rica / Mexico / USA																			9								9	0.1
Belize / Brazil / Mexico / USA																			1								1	<0.1
Belize / Brazile / USA																			1								1	<0.1
Belize / Mexico / USA																			1								1	<0.1
Brazil / Costa Rica																			2								2	<0.1
Brazil / Costa Rica / Mexico																			3								3	<0.1
Brazil / Costa Rica / Mexico / USA																			20								20	0.2
Brazil / Costa Rica / USA																			94								94	0.8
Brazil / Mexico / USA																			103								103	0.9
Brazil / USA																			177								177	1.5
Chile / USA																	8		1								9	0.1
China / USA																					2						2	<0.1
Mexico / Netherlands									1																		1	<0.1
Mexico / USA																			11								11	0.1
No. of Mixed National Origin Samples									1								8		423		2				434			
% of Total									<1								1		72		1					3.8		

Part 4. Unknown Origin Samples

	Fresh F&V														Processed F&V						Other		# of Samples	% of Total	
	CF	CG	CN	CT	HP	LT	MU	ON	PP	PU	SN	TA	WS	YA	BT	IG	IP	IS	OJ	SC	SF	EG			MK
Unknown Origin	2	7	2	5	21	5		1	5	1	3	5	4	2	2	3	1	1				11	2	83	
% of Total	1	1	<1	1	4	1		<1	<1	<1	<1	<1	1	<1	<1	1	<1	<1				3	<1		0.7

Sample Totals: 186 742 739 738 553 744 186 186 741 143 744 717 186 384 756 584 585 585 585 198 198 371 743 11,594

NOTE

¹ Excludes soybean, groundwater, and untreated/finished drinking water samples.

Commodity Legend		
BT = Beets, Canned	IG = Baby Food - Green Beans	PP = Sweet Bell Peppers
CF = Cauliflower	IP = Baby Food - Pears	PU = Plums
CG = Cabbage	IS = Baby Food - Sweet Potatoes	SC = Spinach, Canned
CN = Cantaloupe	LT = Lettuce	SF = Spinach, Frozen
CT = Cherry Tomatoes	MK = Milk	SN = Snap Peas
EG = Eggs	MU = Mushrooms	TA = Tangerines
HP = Hot Peppers	OJ = Orange Juice	WS = Winter Squash
	ON = Onions	YA = Papayas

Appendix J

Import vs. Domestic Pesticide Residue Comparisons

The Pesticide Data Program 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 snap peas from the United States are compared with data for samples originating in Guatemala for 2011. Residue data for domestic cherry tomatoes, hot peppers, and sweet bell peppers are compared with data for samples originating in Mexico for 2011. 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

2011 Distribution of Residues for Snap Pea Samples Originating in Guatemala 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
Carbendazim (MBC)	United States	108	7	6.5
	Guatemala	236	85	36.0
Difenoconazole	United States	222	4	1.8
	Guatemala	343	73	21.3
Dimethoate	United States	222	54	24.3
	Guatemala	343	171	49.9
Omethoate	United States	222	48	21.6
	Guatemala	343	148	43.1

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

**2011 Distribution of Residues for Cherry Tomato Samples
Originating in Mexico vs. United States
(Only Pesticides with Residue Detections in at least 10 Percent of all Samples)**

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Azoxystrobin	United States	400	66	16.5
	Mexico	317	66	20.8
Bifenthrin	United States	400	85	21.2
	Mexico	317	54	17.0
Boscalid	United States	400	78	19.5
	Mexico	317	58	18.3
Chlorantraniliprole	United States	384	114	29.7
	Mexico	301	8	2.7
Clothianidin	United States	400	74	18.5
	Mexico	317	42	13.2
Imidacloprid	United States	400	80	20.0
	Mexico	317	68	21.5
Myclobutanil	United States	400	6	1.5
	Mexico	317	69	21.8
Pyraclostrobin	United States	400	78	19.5
	Mexico	317	68	21.5

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

**2011 Distribution of Residues for Hot 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
Azoxystrobin	United States	270	57	21.1
	Mexico	257	13	5.1
Clothianidin	United States	270	31	11.5
	Mexico	257	45	17.5
Endosulfan sulfate	United States	262	15	5.7
	Mexico	250	40	16.0
Imidacloprid	United States	270	26	9.6
	Mexico	257	30	11.7
Methamidophos	United States	270	34	12.6
	Mexico	257	34	13.2
Omethoate	United States	270	12	4.4
	Mexico	257	62	24.1
Oxamyl oxime	United States	270	43	15.9
	Mexico	257	63	24.5
Thiamethoxam	United States	270	32	11.9
	Mexico	257	57	22.2

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

**2011 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	470	69	14.7
	Mexico	215	12	5.6
Azoxystrobin	United States	470	72	15.3
	Mexico	215	17	7.9
Bifenthrin	United States	470	86	18.3
	Mexico	215	46	21.4
Endosulfan sulfate	United States	470	11	2.3
	Mexico	215	68	31.6
Imidacloprid	United States	470	139	29.6
	Mexico	215	51	23.7
Methamidophos	United States	470	91	19.4
	Mexico	215	15	7.0
Myclobutanil	United States	470	84	17.9
	Mexico	215	88	40.9
Oxamyl oxime	United States	470	96	20.4
	Mexico	215	98	45.6
Pyraclostrobin	United States	470	72	15.3
	Mexico	215	57	26.5
Thiamethoxam	United States	470	40	8.5
	Mexico	215	82	38.1

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 169 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 2011 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 Baby Food - Green Beans (3 pesticides)							
Acephate							
Acephate (parent) *	I	12.2	584	71	0.005 - 0.076	0.017	3.0
Methamidophos ¹ *	IM	14.4	584	84	0.003 - 0.092	0.028	1
Bifenthrin *	I	38.4	584	224	0.005 - 0.045	0.016	0.6
Boscalid	F	20.9	584	122	0.005 - 0.025	0.006	1.6
2 Baby Food - Pears (11 pesticides)							
Acetamiprid *	I	26.3	585	154	0.002 - 0.046	0.013	1.0
Carbendazim (MBC) ²	F	6.0	585	35	0.002 - 0.023	0.005	3.0
Chlorantraniliprole	I	27.0	585	158	0.003 - 0.007	0.003	1.2
Diphenylamine (DPA)	F	46.8	585	274	0.005 - 0.081	0.008	5.0
Imidacloprid	I	13.3	585	78	0.002 - 0.025	0.007	0.6
Methoxyfenozide	I	45.0	585	263	0.002 - 0.029	0.003	1.5
Pyrimethanil	F	60.7	585	355	0.002 - 0.31	0.019	14
Spinetoram	I	25.5	585	149	0.002 - 0.014	0.002	0.20
Spinosad *	I	11.3	585	66	0.002 - 0.012	0.005	0.20
Thiabendazole	F	17.1	585	100	0.002 - 0.90	0.03	5.0
Thiacloprid	I	13.2	585	77	0.002 - 0.029	0.009	0.30
3 Cabbage (1 pesticide)							
Imidacloprid	I	9.0	742	67	0.010 - 0.13	0.018	3.5
4 Cantaloupe (4 pesticides)							
Dinotefuran	I	11.9	739	88	0.010 - 0.13	0.039	0.5
Endosulfan sulfate ³	IM	10.8	739	80	0.010 - 0.068	0.025	1.0
Imidacloprid	I	9.9	739	73	0.010 - 0.066	0.027	0.5
Oxamyl oxime ⁴	IM	8.0	739	59	0.011 - 0.24	0.052	2.0
5 Cauliflower (2 pesticides)							
Deltamethrin ⁵ *	I	26.3	186	49	0.020 ^	0.02	0.05
Imidacloprid	I	36.0	186	67	0.002 - 0.050	0.006	3.5
6 Cherry Tomatoes (15 pesticides)							
Acetamiprid *	I	6.1	738	45	0.003 - 0.079	0.015	0.20
Azoxystrobin	F	18.3	738	135	0.003 - 0.11	0.017	0.2
Bifenthrin *	I	19.1	738	141	0.007 - 0.16	0.031	0.15
Boscalid	F	18.6	738	137	0.015 - 0.19	0.033	1.2
Chlorantraniliprole	I	17.8	706	126	0.003 - 0.024	0.005	1.4
Clothianidin *	I	16.0	738	118	0.003 - 0.069	0.01	0.20
Difenoconazole	F	7.9	736	58	0.003 - 0.15	0.031	0.60
Endosulfan sulfate ³	IM	7.5	738	55	0.007 - 0.073	0.013	1.0
Fenpyroximate	A	5.0	738	37	0.003 - 0.027	0.012	0.20
Flonicamid	I	7.3	738	54	0.002 - 0.39	0.064	0.40
Imidacloprid	I	20.6	738	152	0.008 - 0.26	0.02	1.0

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
Myclobutanil	F	10.4	738	77	0.003 - 0.094	0.013	0.30
Pyraclostrobin	F	20.5	738	151	0.002 - 0.13	0.025	1.4
Thiamethoxam *	I	8.1	738	60	0.003 - 0.067	0.012	0.25
Trifloxystrobin	F	5.3	738	39	0.002 - 0.15	0.022	0.5
7 Hot Peppers (15 pesticides)							
Acephate							
Acephate (parent) *	I	8.3	553	46	0.005 - 2.3	0.284	4.0
Methamidophos ¹ *	IM	13	553	72	0.003 - 0.58	0.085	1
Azoxystrobin	F	13.6	553	75	0.002 - 0.31	0.021	2.0
Bifenthrin *	I	5.2	553	29	0.005 - 0.088	0.015	0.5
Boscalid	F	8.0	553	44	0.004 - 0.16	0.036	1.2
Carbaryl							
Carbaryl (parent)	I	9.9	553	55	0.005 - 1.6	0.313	5.0
1-Naphthol ⁸	IM	8.7	539	47	0.015 - 0.93	0.193	NR
Chlorpyrifos *	I	8.0	553	44	0.005 - 0.20	0.036	1.0
Clothianidin *	I	14.1	553	78	0.005 - 0.079	0.013	0.25
Dimethoate							
Dimethoate (parent)	I	9.0	553	50	0.003 - 0.36	0.067	2.0
Omethoate ⁹	I	14.3	553	79	0.003 - 0.21	0.028	2.0
Endosulfans							
Endosulfan II (isomer) ⁶	IM	6.1	553	34	0.010 - 0.065	0.018	2.0
Endosulfan sulfate ³	IM	10.6	538	57	0.005 - 0.075	0.012	2.0
Imidacloprid	I	10.5	553	58	0.010 - 0.73	0.052	1.0
Metalaxyl/Mefenoxam ⁷	F	6.3	553	35	0.003 - 0.17	0.035	1.0
Methoxyfenozide	I	5.8	553	32	0.005 - 0.61	0.044	2.0
Oxamyl							
Oxamyl (parent)	I	8.7	553	48	0.008 - 0.76	0.071	5.0
Oxamyl oxime ⁴	IM	20.3	553	112	0.020 - 0.90	0.137	5.0
Pyraclostrobin	F	6.7	553	37	0.002 - 0.22	0.025	1.4
Thiamethoxam *	I	16.6	553	92	0.003 - 0.086	0.013	0.25
8 Lettuce (13 pesticides)							
Boscalid	F	8.7	744	65	0.003 - 2.4	0.088	11.0
Cyhalothrin, Total ¹⁰ *	I	14.4	744	107	0.001 - 0.56	0.081	2.0
Cypermethrin *	I	8.2	744	61	0.002 - 0.45	0.092	10.00
DCPA	H	14.2	744	106	0.001 - 0.033	0.004	2.0
Dimethomorph	F	14.9	744	111	0.003 - 2.4	0.209	10
Fenamidone	F	10.6	744	79	0.005 - 4.0	0.374	60
Flonicamid	I	7.4	744	55	0.006 - 0.63	0.104	4.0
Imidacloprid	I	36.4	744	271	0.003 - 0.12	0.013	3.5
Mandipropamid	F	26.7	744	199	0.002 - 4.6	0.242	20
Metalaxyl/Mefenoxam ⁷	F	8.2	744	61	0.001 - 0.080	0.006	5.0
Permethrin							
Permethrin cis ¹¹	IM	13.2	743	98	0.011 - 1.1	0.225	20
Permethrin trans ¹¹	IM	12.9	744	96	0.010 - 1.2	0.211	20
Propamocarb hydrochloride ¹²	F	22.0	744	164	0.003 - 18	1.235	90
Spirotetramat	I	6.7	744	50	0.002 - 0.28	0.029	9.0

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
9 Mushrooms (3 pesticides)							
Carbendazim (MBC) ²	F	5.4	186	10	0.002 - 0.16	0.066	NT
Piperonyl butoxide *	I	5.9	186	11	0.014 - 0.55	0.171	10
Thiabendazole	F	58.1	186	108	0.003 - 2.0	0.359	40.0
10 Onions (2 pesticides)							
Boscalid	F	5.9	186	11	0.005 - 0.034	0.012	3.0
Imidacloprid	I	5.9	186	11	0.010 ^	0.01	0.15
11 Orange Juice (4 pesticides)							
Carbaryl	I	22.2	585	130	0.003 - 0.018	0.007	10
Imazalil	F	6.3	585	37	0.013 - 0.061	0.028	10.0
Imidacloprid	I	5.8	585	34	0.003 - 0.005	0.004	0.70
Thiabendazole	F	9.6	585	56	0.003 - 0.044	0.016	10.0
12 Papaya (2 pesticides)							
Boscalid	F	10.2	384	39	0.020 - 0.086	0.038	1.5
Difenoconazole	F	7.3	384	28	0.002 - 0.016	0.005	0.30
13 Plums (14 pesticides)							
Bifenazate	A	6.3	143	9	0.005 - 0.030	0.014	0.20
Boscalid	F	17.5	143	25	0.005 - 0.082	0.032	3.5
Carbendazim (MBC) ²	F	5.6	143	8	0.010 - 0.070	0.024	0.5
Chlorantraniliprole	I	14.0	143	20	0.010 ^	0.01	4.0
Fenhexamid	F	9.8	143	14	0.040 - 0.36	0.179	1.5
Fenpropathrin	I	7.0	143	10	0.020 - 0.042	0.022	1.4
Fludioxonil	F	81.1	143	116	0.010 - 1.5	0.36	5.0
Methoxyfenozide	I	21.0	143	30	0.005 - 0.072	0.025	0.30
Phosmet	I	15.4	143	22	0.005 - 0.037	0.014	5
Propiconazole	F	10.5	143	15	0.010 - 0.12	0.056	1.0
Pyraclostrobin	F	17.5	143	25	0.003 - 0.027	0.014	2.5
Pyrimethanil	F	13.3	143	19	0.005 - 0.14	0.051	10
Spirodiclofen	A	7.7	143	11	0.005 - 0.039	0.011	1.0
Spirotetramat	I	9.8	143	14	0.003 - 0.010	0.004	4.5
14 Snap Peas (13 pesticides)							
Azoxystrobin	F	9.4	744	70	0.002 - 0.40	0.025	3.0
Carbendazim (MBC) ²	F	25.6	465	119	0.002 - 1.6	0.076	NT
Clethodim							
Clethodim sulfone ¹³	HM	5.4	93	5	0.005 - 0.23	0.061	3.5
Clethodim sulfoxide ¹³	HM	5.4	93	5	0.005 - 0.30	0.07	3.5
Cyhalothrin *							
Cyhalothrin, Lambda ¹⁴	I	6.0	248	15	0.010 - 0.048	0.022	0.20
Cyhalothrin, Total ¹⁰	I	7.3	465	34	0.005 - 0.068	0.023	0.20
Cyromazine	R	5.4	186	10	0.024 - 0.67	0.237	NT
Difenoconazole	F	11.2	744	83	0.002 - 0.21	0.021	NT
Dimethoate							
Dimethoate (parent)	I	30.8	744	229	0.003 - 0.60	0.066	2.0
Omethoate ⁹	I	26.9	744	200	0.003 - 0.28	0.032	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
Endosulfan sulfate ³	IM	5.0	744	37	0.005 - 0.33	0.035	2.0
Malathion	I	7.4	744	55	0.002 - 0.082	0.012	8
Profenofos	I	5.9	372	22	0.003 - 0.15	0.022	NT
Tebuconazole	F	5.9	744	44	0.003 - 0.099	0.021	NT
Tetrahydrophthalimide (THPI) ¹⁵	FM	9.4	744	70	0.006 - 0.37	0.049	0.05
Triadimenol	F	5.1	372	19	0.030 - 0.47	0.104	NT
15 Soybeans (2 pesticides)							
Glyphosate							
Glyphosate (parent)	H	90.3	300	271	0.26 - 18.5	1.937	20.0
AMPA ¹⁶	HM	95.7	300	287	0.26 - 20	2.279	20.0
Pyraclostrobin	F	6.7	300	20	0.001 - 0.022	0.003	0.04
16 Spinach, Canned (7 pesticides)							
Azoxystrobin	F	20.2	198	40	0.071 - 1.6	0.516	30.0
Chlorantraniliprole	I	5.1	198	10	0.035 - 0.10	0.062	13
Cypermethrin *	I	70.7	198	140	0.13 - 4.8	0.687	10.00
Fenamidone	F	6.6	198	13	0.005 - 0.13	0.05	60
Methoxyfenozide	I	17.7	198	35	0.033 - 0.82	0.31	30
1-Naphthol ⁸	IM	33.3	198	66	0.061 - 2.9	0.835	NR
Permethrin Total	I	63.1	198	125	0.10 - 4.8	1.683	20
17 Spinach, Frozen (14 pesticides)							
Azoxystrobin	F	14.1	198	28	0.078 - 3.9	0.501	30.0
Chlorantraniliprole	I	16.2	198	32	0.048 - 3.6	0.576	13
Cyfluthrin *	I	17.2	198	34	0.070 - 2.3	0.558	6.0
Cypermethrin *	I	24.2	198	48	0.14 - 3.0	0.951	10.00
Fenamidone	F	12.6	198	25	0.004 - 1.7	0.22	60
Flonicamid	I	5.1	198	10	0.021 - 0.12	0.082	9.0
Flubendiamide	I	5.1	198	10	0.004 - 1.4	0.241	11
Fluopicolide	F	7.6	198	15	0.010 - 0.55	0.178	25
Imidacloprid	I	5.1	198	10	0.033 - 0.75	0.139	3.5
Mandipropamid	F	36.4	198	72	0.004 - 8.9	0.358	20
Methoxyfenozide	I	14.6	198	29	0.016 - 1.3	0.482	30
Permethrin Total	I	17.2	198	34	0.10 - 9.1	1.831	20
Pyraclostrobin	F	13.6	198	27	0.007 - 3.7	1.069	29.0
Spinosad *	I	6.8	88	6	0.016 - 0.16	0.06	8.0
18 Sweet Bell Peppers (19 pesticides)							
Acephate *	I	11.2	741	83	0.078 - 2.1	0.346	4.0
Methamidophos ¹⁷ *	I	14.6	741	108	0.009 - 0.26	0.067	4.0
Acetamiprid *	I	5.7	741	42	0.002 - 0.22	0.023	0.20
Azoxystrobin	F	12.6	741	93	0.005 - 0.18	0.025	2.0
Bifenthrin *	I	17.8	741	132	0.002 - 0.14	0.019	0.5
Boscalid	F	8.8	741	65	0.020 - 0.28	0.071	1.2
Carbaryl	I	5.3	741	39	0.006 - 1.1	0.239	5.0
Chlorpyrifos *	I	6.6	741	49	0.011 - 1.0	0.099	1.0
Difenoconazole	F	6.3	741	47	0.005 - 0.46	0.049	0.60
Dinotefuran	I	5.7	741	42	0.010 - 0.81	0.089	0.7

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
Endosulfans							
Endosulfan I (isomer) ¹⁸	I	5.9	741	44	0.012 - 0.18	0.053	2.0
Endosulfan II (isomer) ⁶	IM	6.3	741	47	0.020 - 0.20	0.071	2.0
Endosulfan sulfate ³	IM	11.1	741	82	0.006 - 0.18	0.029	2.0
Imidacloprid	I	26.6	741	197	0.009 - 0.37	0.028	1.0
Metalaxyl/Mefenoxam ⁷	F	5.5	741	41	0.030 - 0.30	0.089	1.0
Methomyl	I	8.5	741	63	0.015 - 1.3	0.169	2
Methoxyfenozide	I	8.9	741	66	0.006 - 0.057	0.017	2.0
Myclobutanil	F	24.7	741	183	0.001 - 0.23	0.021	4.0
Oxamyl							
Oxamyl (parent)	I	9.6	741	71	0.008 - 0.55	0.061	2.0
Oxamyl oxime ⁴	IM	27.0	741	200	0.020 - 0.55	0.09	2.0
Permethrin							
Permethrin cis ¹¹	IM	7.7	741	57	0.003 - 0.076	0.021	0.50
Permethrin trans ¹¹	IM	8.0	741	59	0.003 - 0.076	0.022	0.50
Pyraclostrobin	F	18.1	741	134	0.001 - 0.19	0.021	1.4
Thiamethoxam *	I	17.1	741	127	0.010 - 0.17	0.031	0.25
19 Tangerines (3 pesticides)							
Imazalil	F	85.0	715	608	0.011 - 3.6	0.191	10.0
Pyrimethanil	F	6.6	717	47	0.003 - 0.36	0.055	10
Thiabendazole	F	75.5	715	540	0.011 - 0.68	0.138	10.0
20 Winter Squash (6 pesticides)							
Bifenthrin *	I	11.3	186	21	0.005 - 0.041	0.01	0.4
Endosulfan sulfate ³	IM	19.9	186	37	0.005 - 0.069	0.016	1.0
Imidacloprid	I	18.3	186	34	0.010 - 0.046	0.012	0.5
Propamocarb hydrochloride ¹²	F	11.8	186	22	0.010 - 0.83	0.264	1.5
Pyraclostrobin	F	6.5	186	12	0.003 - 0.009	0.004	0.5
Thiamethoxam *	I	5.4	186	10	0.003 - 0.006	0.003	0.2

NOTES

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

B Excludes groundwater and finished/untreated drinking water samples.

* Residue may result from food handling establishment (FHE) application.

NT No tolerance established.

NR Metabolite of carbaryl. Not regulated (not included in tolerance expression).

1 Specific tolerance established for methamidophos in green beans as a possible result of an acephate application.

2 From parent, benomyl.

3 From parent, endosulfan.

4 From parent, oxamyl.

5 Includes parent, tralomethrin.

6 From endosulfan (endosulfan II is an isomer of endosulfan).

7 Metalaxyl/mefenoxam are spatial isomers which are analytically indistinguishable via multiresidue methods, but have separate registrations.

8 From parent, carbaryl.

9 Metabolite of parent, dimethoate.

10 Includes cyhalothrin lambda plus R157836 epimer.

11 Isomer of parent, permethrin.

12 Analytically determined as the salt (hydrochloride).

- 13 Metabolite of parent, clethodim.
- 14 Includes gamma isomer.
- 15 Metabolite of captafol and captan.
- 16 Aminomethylphosphonic acid (AMPA) metabolite of parent, glyphosate.
- 17 Metabolite of parent, acephate.
- 18 From endosulfan (endosulfan I is an isomer of endosulfan).

Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, H = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

R = Insect Growth Regulator

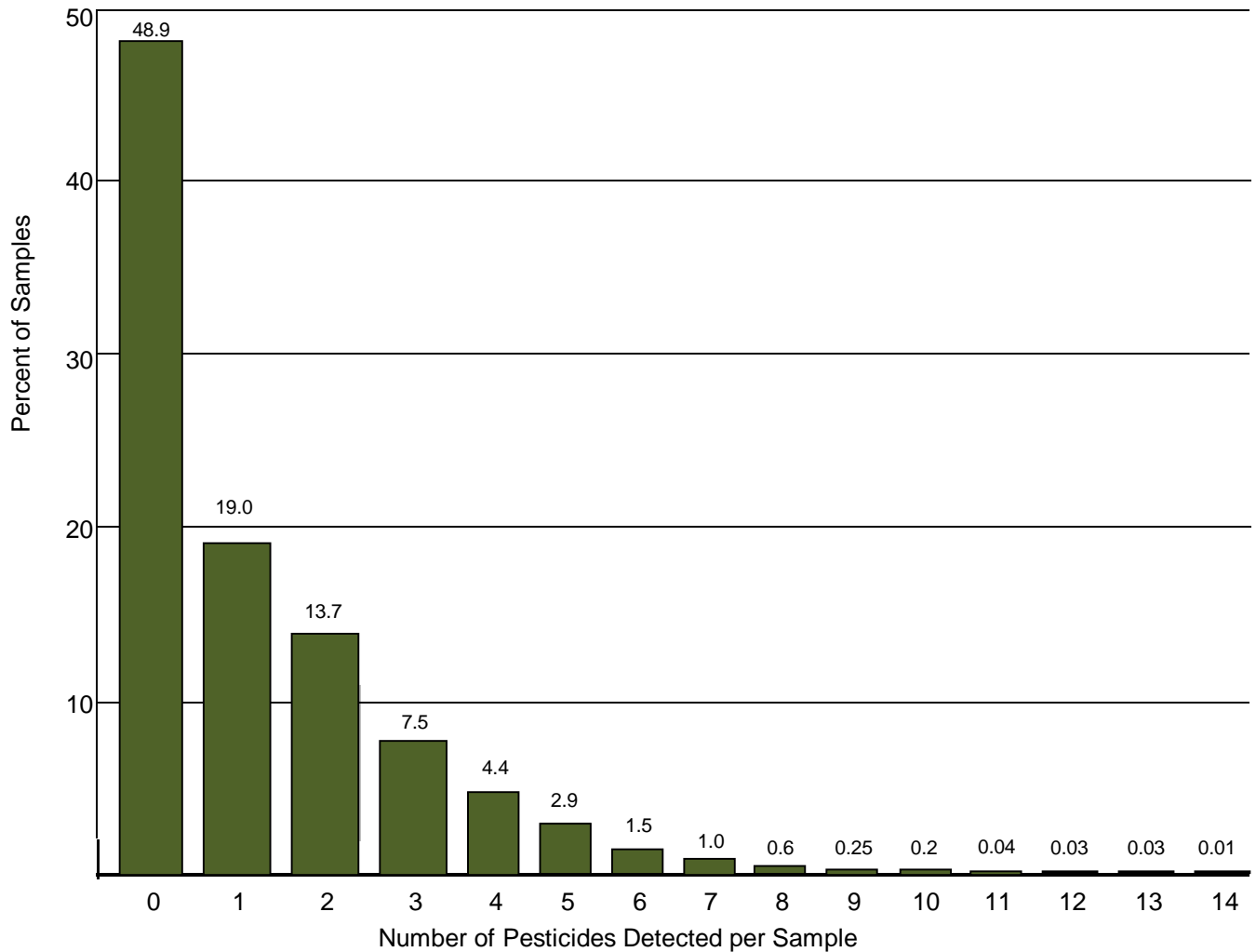
Appendix L

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 11,894 samples analyzed, 48.9 percent of the samples had no detectable pesticides, 19.0 percent had 1 pesticide, and 32.1 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 PESTICIDES¹ DETECTED PER SAMPLE²



	Number of Pesticides Detected per Sample														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Number of Samples	5,818	2,261	1,630	895	518	343	177	117	68	30	24	5	4	3	1
Percent of Total Samples	48.9	19.0	13.7	7.5	4.4	2.9	1.5	1.0	0.6	0.25	0.2	0.04	0.03	0.03	0.01

TOTAL NUMBER OF SAMPLES = 11,894

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
Fresh Fruit and Vegetables:															
	Percent														
Cabbage (742)	86.3	13.5	0.3	--	--	--	--	--	--	--	--	--	--	--	--
Cantaloupe (739)	62.2	27.2	6.8	2.8	0.9	--	--	--	--	--	--	--	--	--	--
Cauliflower (186)	39.2	45.7	12.9	1.1	0.5	0.5	--	--	--	--	--	--	--	--	--
Cherry Tomatoes (738)	21.3	16.7	21.1	16.4	10.7	5.7	3.7	2.2	1.1	0.4	0.1	0.3	0.3	0.1	--
Hot Peppers (553)	26.9	17.0	16.8	11.4	8.3	8.3	5.4	2.7	1.6	0.7	0.7	--	--	--	--
Lettuce (744)	22.7	25.4	15.1	11.2	8.2	6.9	4.0	3.2	2.4	0.7	0.1	--	0.1	--	--
Mushrooms (186)	37.1	50.5	9.7	2.2	0.5	--	--	--	--	--	--	--	--	--	--
Onions (186)	90.9	5.9	1.6	1.6	--	--	--	--	--	--	--	--	--	--	--
Papaya (384)	79.2	17.7	3.1	--	--	--	--	--	--	--	--	--	--	--	--
Plums (143)	7.0	39.2	17.5	13.3	7.0	4.2	2.8	4.2	1.4	1.4	2.1	--	--	--	--
Snap Peas (744)	28.2	17.2	19.4	14.4	9.7	6.0	2.6	1.3	0.5	0.4	0.3	--	--	--	--
Sweet Bell Peppers (741)	17.3	17.0	15.4	14.7	11.3	10.0	5.5	3.5	2.3	0.9	1.1	0.4	0.1	0.3	0.1
Tangerines (717)	2.9	29.8	58.4	7.8	1.0	--	--	--	--	--	--	--	--	--	--
Winter Squash (186)	40.9	29.6	20.4	6.5	2.2	--	--	--	0.5	--	--	--	--	--	--
Processed Fruit and Vegetables:															
Baby Food - Green Beans (584)	48.6	25.9	16.4	5.7	2.2	1.2	--	--	--	--	--	--	--	--	--
Baby Food - Pears (585)	6.0	9.7	20.2	32.0	13.8	9.1	3.2	2.9	1.4	1.0	0.7	--	--	--	--
Baby Food - Sweet Potatoes (585)	98.6	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--
Beets, Canned (756)	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Orange Juice (585)	64.4	27.0	8.0	0.5	--	--	--	--	--	--	--	--	--	--	--
Spinach, Canned (198)	2.0	24.2	32.3	19.7	15.7	4.0	1.5	0.5	--	--	--	--	--	--	--
Spinach, Frozen (198)	22.7	20.7	24.7	12.1	10.6	5.1	2.0	1.0	0.5	--	0.5	--	--	--	--
Percent of Total Samples	45.0	19.2	15.1	8.5	4.9	3.3	1.7	1.1	0.6	0.29	0.23	0.05	0.04	0.03	0.01
Actual Number of Samples	4,713	2,007	1,584	886	518	343	177	117	68	30	24	5	4	3	1
TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 10,480															
Grain Product:															
Soybeans (300)	4.0	78.3	15.0	2.7	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	12	235	45	8	--	--	--	--	--	--	--	--	--	--	--
Dairy Product:															
Milk (743)	99.2	0.7	0.1	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	737	5	1	--	--	--	--	--	--	--	--	--	--	--	--
Other Product:															
Eggs (371)	96.0	3.8	--	0.2	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	356	14	--	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 604 groundwater and 239 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 2011, a total of 413 samples with 612 pesticides were reported to the FDA as Presumptive Tolerance Violations.

Pesticides exceeding the tolerance were detected in 32 samples including 1 cabbage sample, 1 cantaloupe sample, 1 cherry tomato sample, 1 hot pepper sample, 3 frozen spinach samples, 3 samples of sweet bell peppers, and 22 snap pea samples. Of those 32 samples, 25 were reported as imported produce.

In addition, 399 samples were found to have pesticides for which no tolerance was established, including 360 fresh fruit and vegetable samples, 37 processed fruit/vegetable samples, and 2 egg samples.

- o 270 samples contained 1 pesticide for which no tolerance was established.
- o 85 samples contained 2 pesticides for which no tolerance was established.
- o 37 samples contained 3 pesticides for which no tolerance was established.
- o 6 samples contained 4 pesticides for which no tolerance was established.
- o 1 sample of snap peas contained 5 pesticides for which no tolerance was established.

Eighteen of the 399 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 Cabbage / Acephate	0.02	0.033	0.02	U.S.
2 Cantaloupe / Acephate	0.01	0.054	0.02	U.S.
3 Cherry Tomatoes / Bifenthrin	0.004	0.16	0.15	U.S.
4 Hot Peppers / Tetrahydrophthalimide (THPI) ¹	0.009	0.065	0.05	U.S.
5 Snap Peas / Chlorfenapyr	0.002	0.034	0.01	Peru
6 Snap Peas / Cypermethrin	0.043	0.27	0.1	Peru
7 Snap Peas / Cypermethrin	0.043	0.25	0.1	U.S.
8 Snap Peas / Deltamethrin (includes parent Tralomethrin)	0.015	0.19	0.05	Guatemala
9 Snap Peas / Deltamethrin (includes parent Tralomethrin)	0.08	0.15	0.05	Peru
10 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.004	0.37	0.05	Guatemala
11 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.004	0.3	0.05	Guatemala
12 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.02	0.3	0.05	Guatemala
13 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.004	0.21	0.05	Guatemala
14 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.004	0.15	0.05	Guatemala
15 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.02	0.15	0.05	Guatemala
16 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.009	0.1	0.05	Guatemala
17 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.02	0.095	0.05	Guatemala
18 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.02	0.094	0.05	Guatemala
19 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.02	0.092	0.05	Guatemala
20 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.004	0.085	0.05	Guatemala
21 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.02	0.084	0.05	Guatemala
22 Snap Peas / Tetrahydrophthalimide (THPI) ¹	0.009	0.064	0.05	Guatemala
23 Snap Peas / Thiamethoxam	0.005	0.12	0.02	Guatemala
24 Snap Peas / Thiamethoxam	0.005	0.04	0.02	Guatemala
25 Snap Peas / Thiamethoxam	0.002	0.038	0.02	Guatemala
26 Snap Peas / Thiamethoxam	0.002	0.03	0.02	Guatemala
27 Spinach, Frozen / Acephate	0.032	0.21	0.02	U.S.
28 Spinach, Frozen / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.02	0.092	0.01	China
29 Spinach, Frozen / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.02	0.026	0.01	U.S.
30 Sweet Bell Peppers / Acetamiprid	0.002	0.22	0.20	Mexico
31 Sweet Bell Peppers / Dinotefuran	0.01	0.81	0.7	Mexico
32 Sweet Bell Peppers / Fludioxonil	0.015	0.04	0.01	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 Baby Food - Green Beans (1 pesticide)								
Propamocarb hydrochloride ²	584	19	3.3	0.010 - 0.28	0.006 ^	19	0	0
2 Baby Food - Pears (3 pesticides)								
Fenbuconazole	585	2	0.3	0.002 ^	0.001 - 0.003	1	1	0
Iprodione	585	16	2.7	0.014 - 0.19	0.008 - 0.029	16	0	0
Profenofos	585	1	0.2	0.003 ^	0.002 ^	1	0	0
3 Cauliflower (1 pesticide)								
Chlorpropham	186	1	0.5	0.005 ^	0.003 ^	1	0	0
4 Eggs (1 pesticide)								
Fluvalinate	371	2	0.5	0.001 - 0.002	0.001 ^	2	0	0
5 Hot Peppers (10 pesticides)								
Azinphos methyl	538	2	0.4	0.005 - 0.017	0.003 - 0.20	0	1	1
Chlorpropham	279	4	1.4	0.008 ^	0.005 ^	0	3	1
Diphenylamine (DPA)	279	1	0.4	0.005 ^	0.003 ^	1	0	0
Fenamiphos								
Fenamiphos sulfone ³	553	1	0.2	0.017 ^	0.002 - 0.003	0	1	0
Fenamiphos sulfoxide ³	553	1	0.2	0.11 ^	0.002 - 0.003	0	1	0
Monocrotophos	279	5	1.8	0.029 - 0.32	0.003 ^	1	4	0
Parathion methyl	279	3	1.1	0.005 ^	0.003 ^	1	1	1
Permethrin								
Permethrin cis ⁴	279	3	1.1	0.015 ^	0.009 ^	0	3	0
Permethrin trans ⁴	279	4	1.4	0.015 - 0.037	0.009 ^	1	3	0
Propiconazole	279	1	0.4	0.010 ^	0.006 ^	1	0	0
Thiacloprid	279	8	2.9	0.003 - 0.11	0.002 ^	0	8	0
Triflumizole	279	2	0.7	0.005 - 0.013	0.003 ^	0	2	0
6 Lettuce (5 pesticides)								
Flutolanil	744	1	0.1	0.15 ^	0.003 ^	1	0	0
Linuron	713	2	0.3	0.005 ^	0.003 ^	2	0	0
Oxamyl oxime	744	2	0.3	0.004 ^	0.003 ^	2	0	0
Trifloxystrobin	744	1	0.1	0.012 ^	0.003 ^	1	0	0
Trifluralin	744	9	1.2	0.001 - 0.002	0.001 ^	8	0	1
7 Mushrooms (3 pesticides)								
Carbendazim (MBC)	186	10	5.4	0.002 - 0.16	0.001 ^	5	5	0
Dimethoate	186	1	0.5	0.009 ^	0.005 ^	0	1	0
o-Phenylphenol	186	6	3.2	0.015 - 0.086	0.010 ^	6	0	0
8 Plums (1 pesticide)								
Thiabendazole	143	1	0.7	0.005 ^	0.003 ^	0	1	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin		
						U.S.	Import	Unk.
9 Snap Peas (28 pesticides)								
Atrazine	744	1	0.1	0.027 ^	0.001 - 0.003	0	1	0
Carbendazim (MBC)	465	119	25.6	0.002 - 1.6	0.001 - 0.002	7	111	1
Chlorpropham	744	3	0.4	0.002 - 0.11	0.001 - 0.006	0	3	0
Cyromazine	186	10	5.4	0.024 - 0.67	0.002 - 0.003	0	10	0
DCPA	744	16	2.2	0.002 - 0.007	0.001 - 0.002	16	0	0
Dicloran	744	1	0.1	0.046 ^	0.002 - 0.006	0	1	0
Difenoconazole	744	83	11.2	0.002 - 0.21	0.001 - 0.003	4	78	1
Etoxazole	465	1	0.2	0.002 ^	0.001 - 0.002	0	1	0
Fenhexamid	465	2	0.4	0.15 - 0.23	0.009 - 0.024	0	2	0
Fipronil	372	2	0.5	0.014 - 0.053	0.003 - 0.020	0	2	0
Flonicamid	744	1	0.1	0.002 ^	0.001 - 0.018	1	0	0
Fluopicolide	372	4	1.1	0.003 - 0.087	0.002 ^	0	4	0
Iprodione	744	21	2.8	0.005 - 3.4	0.003 - 0.015	1	20	0
Linuron	744	1	0.1	0.005 ^	0.003 - 0.006	0	1	0
Mandipropamid	744	2	0.3	0.005 - 0.014	0.003 - 0.005	1	1	0
Oxamyl								
Oxamyl (parent) ⁵	744	2	0.3	0.010 - 0.026	0.002 - 0.006	0	2	0
Oxamyl oxime ⁵	372	1	0.3	0.020 ^	0.012 ^	1	0	0
Pentachloroaniline (PCA)	372	1	0.3	0.002 ^	0.001 ^	0	1	0
Permethrin								
Permethrin cis ⁴	713	35	4.9	0.002 - 0.23	0.001 - 0.015	4	31	0
Permethrin trans ⁴	682	29	4.3	0.002 - 0.23	0.001 - 0.060	3	26	0
Phorate								
Phorate sulfone ⁶	744	1	0.1	0.005 ^	0.003 ^	0	1	0
Phorate sulfoxide ⁶	744	2	0.3	0.005 - 0.015	0.002 - 0.009	0	2	0
Profenofos	372	22	5.9	0.003 - 0.15	0.002 ^	2	20	0
Propamocarb hydrochloride ²	372	18	4.8	0.010 - 1.3	0.006 ^	3	15	0
Pyrimethanil	744	9	1.2	0.002 - 0.069	0.001 - 0.003	1	8	0
Spiromesifen Total ⁷	372	1	0.3	0.010 ^	0.006 - 0.020	0	1	0
Tebuconazole	744	44	5.9	0.003 - 0.099	0.002 - 0.006	2	42	0
Thiabendazole	744	5	0.7	0.002 - 0.49	0.001 - 0.003	2	3	0
Thiacloprid	744	21	2.8	0.002 - 0.065	0.001 - 0.002	0	20	1
Triadimenol	372	19	5.1	0.030 - 0.47	0.018 ^	0	19	0
Trifloxystrobin	744	4	0.5	0.002 - 0.007	0.001 - 0.002	0	4	0
10 Sweet Bell Peppers (5 pesticides)								
Cyprodinil	741	1	0.1	0.012 ^	0.004 ^	0	1	0
Pyridaben	741	1	0.1	0.004 ^	0.001 ^	0	1	0
Pyrimethanil	741	2	0.3	0.48 - 0.71	0.002 ^	0	2	0
Triadimenol	741	1	0.1	0.023 ^	0.017 ^	0	1	0
Triflumizole	741	1	0.1	0.008 ^	0.002 ^	1	0	0
11 Tangerines (3 pesticides)								
Aldicarb sulfoxide	717	7	1	0.010 - 0.039	0.010 ^	7	0	0
Carbendazim (MBC)	717	4	0.6	0.010 - 0.030	0.010 ^	2	2	0
Prochloraz	696	1	0.1	0.082 ^	0.010 ^	1	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.
12 Winter Squash (4 pesticides)								
Bromacil	186	1	0.5	0.015 ^	0.009 ^	1	0	0
Imazalil	186	1	0.5	0.005 ^	0.003 ^	0	1	0
Omethoate	186	1	0.5	0.005 ^	0.003 ^	1	0	0
Oxadixyl	186	1	0.5	0.010 ^	0.006 ^	1	0	0

NOTES

- 1 Metabolite of captafol and captan.
- 2 Analytically determined as the salt (hydrochloride).
- 3 Fenamiphos, hot peppers: One sample contained both the sulfone and sulfoxide metabolites.
- 4 Permethrin, hot peppers: One sample contained only the trans permethrin isomer and three samples contained both the cis and trans isomers of the parent compound. Permethrin, snap peas: Eight samples contained only the cis permethrin isomer, two samples contained only the trans permethrin isomer, and 27 samples contained both the cis and trans isomers.
- 5 Oxamyl, snap peas: Two samples contained only the parent, oxamyl, and one sample contained only the oxime metabolite.
- 6 Phorate, snap peas: One sample contained only the sulfoxide metabolite and two samples contained both the sulfone and sulfoxide metabolites.
- 7 Includes parent, spiromesifan, plus the enol 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 2011

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