Pesticide Data Program

Annual Summary, Calendar Year 2012

United States Department of Agriculture

Agricultural Marketing Service

Science and Technology Program

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

February 2014

February 2014

Dear Reader:

We are pleased to present the Pesticide Data Program's (PDP) 22nd Annual Summary for calendar year 2012. The U.S. Department of Agriculture (USDA), Agricultural Marketing Service (AMS) conducts this program each year to collect data on pesticide residues in food. This report shows that overall pesticide residues found in foods are at levels below the tolerances set by the U.S. Environmental Protection Agency (EPA).

The PDP provides reliable data that helps assure consumers that the produce they feed their families is safe. Over 99 percent of the products sampled through PDP had residues below the EPA tolerances. Ultimately, if EPA determines a pesticide is not safe for our families, it is removed from the market. This system of checks and balances provides Americans with the safest food supply in the world.

The PDP tests a wide variety of domestic and imported foods using a sound statistical program and the most current laboratory methods. The EPA uses the PDP data when looking at dietary pesticide exposure, a critical step to verify that all sources of exposure to pesticides meet U.S. safety standards.

The PDP is not designed for enforcement of EPA pesticide residue tolerances. However, we inform the U.S. Food and Drug Administration (FDA), who is responsible for enforcing EPA tolerances, if residues detected exceed the EPA tolerance or have no EPA tolerance established. The PDP pesticide residue results are reported to FDA and EPA through monthly reports. In instances where a PDP finding is extraordinary and may pose a safety risk, FDA and EPA are immediately notified.

In 2012, excluding water, residues exceeding the tolerance was detected in 0.53 percent (63 samples) of the total samples tested (11,893 samples). Residues with no established tolerance were found in 4.3 percent (508 samples) of the total samples tested. However, these levels did not exceed tolerances levels established for other commodities for the pesticides detected.

The PDP works with State agencies representing all regions of the country and more than half of the U.S. population. In 2012, samples were collected and analyzed in California, Colorado, Florida, Maryland, Michigan, Minnesota, Montana, New York, North Carolina, Ohio, Texas, Washington, and Wisconsin. The data reported by PDP corroborate that residues found in agricultural products sampled are at levels that do not pose risk to consumers' health (i.e., are safe according to EPA).

For more information about PDP, please visit our website at www.ams.usda.gov. For more information about pesticides and food, please visit EPA's website at http://www.epa.gov/pesticides/food.

Agricultural Marketing Service
1400 Independence Avenue, SW, Washington, DC 20250-0201
Voice (202) 720-8998 Fax (202) 720-7135

Contents

Figures **Page No.**

Tables

Appendices A-L

Acknowledgements

The States participating in the Pesticide Data Program (PDP) deserve special recognition for their contributions to the program. The dedication and flexibility of sample collectors allow the Agricultural Marketing Service (AMS) to adjust sampling protocols when responding to changing trends in commodity distribution and availability. PDP acknowledges the contributions of the State laboratories, the U.S. Department of Agriculture's (USDA) AMS National Science Laboratory, 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 and the Food and Drug Administration, Center of Food Safety and Nutrition, Office of Food Safety, in helping to set the direction for PDP.

Data presented in this report are the latest available and were collected and processed through the efforts of the following organizations:

Program Administration

Agricultural Marketing Service
Science and Technology Program
1400 Independence Ave., SW
South Building, Mail Stop 0270
Washington, DC 20250

Deputy Administrator
Science and Technology Program
Ruihong Guo
(202) 720-5231, Facsimile (202) 720-6496

Monitoring Programs Division
8609 Sudley Rd., Suite 206
Manassas, VA 20110

Director: Martha Lamont
(703) 330-2300 x117, Facsimile (703) 369-0678

Deputy Director: Diana Haynes
(703) 330-2300 x134, Facsimile (703) 369-0678

Electronic-mail Address:

amsmpo.data@ams.usda.gov

Website:

http://www.ams.usda.gov/pdp

Participating State Agencies

California Department of Food and Agriculture
California Department of Pesticide Regulation
Colorado Department of Agriculture
Florida Department of Agriculture and Consumer Services
Maryland Department of Agriculture
Michigan Department of Agriculture and Rural Development
Minnesota Department of Agriculture
Montana Department of Agriculture
New York Department of Agriculture and Markets
North Carolina Department of Agriculture & Consumer Services
Ohio Department of Agriculture
Texas Department of Agriculture
Washington State Department of Agriculture
Wisconsin Department of Agriculture, Trade, and Consumer Protection

Participating Laboratories

California Department of Food and Agriculture
Division of Inspection Services
Center for Analytical Chemistry
3292 Meadowview Rd.
Sacramento, CA 95832

Florida Department of Agriculture and Consumer Services
Chemical Residue Laboratory
3125 Conner Blvd., Bldg. 3
Tallahassee, FL 32399-1650

Michigan Department of Agriculture and
Rural Development
Laboratory Division
1615 South Harrison Rd.
East Lansing, MI 48823-5224

Minnesota Department of Agriculture
Laboratory Services Division
601 N. Robert St.
St. Paul, MN 55155-2531

Montana Department of Agriculture
Laboratory Bureau
McCall Hall, Montana State University
Bozeman, MT 59717

New York Department of Agriculture
And Markets
Food Laboratory
6 Harriman Campus Road
Albany, NY 12235

Ohio Department of Agriculture
Consumer Analytical Laboratory
8995 East Main St.
Reynoldsburg, OH 43068

Texas Department of Agriculture
Pesticide Laboratory
1500 Research Parkway, Ste. B100
College Station, TX 77845

United States Department of Agriculture
Grain Inspection, Packers & Stockyards Administration
Technical Services Division
10383 North Ambassador Dr.
Kansas City, MO 64153-1394

United States Department of Agriculture
Agricultural Marketing Service
National Science Laboratory
801 Summit Crossing Pl.
Gastonia, NC 28054

Washington State Department of Agriculture
Chemical and Hop Laboratory
21 N. 1st Ave., Ste. 106
Yakima, WA 98902

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 22nd Pesticide Data Program Summary presents results for samples collected in 2012.

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, processing, and storage, 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 were 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 had 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 2012, 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 and selected processed commodities – apple juice, baby food (applesauce, carrots, peaches, and peas), butter, and orange juice. North Carolina collected four samples per month of each of these commodities for a total of 66 monthly samples. For seasonal commodities, sampling rates are adjusted to reflect market availability.

Fresh and processed fruit and vegetables accounted for 86.1 percent of the total 12,546 samples collected in 2012. Other samples collected included butter, 6.3 percent; water, 5.2 percent; and wheat, 2.4 percent. Fresh and processed fruit and vegetables tested during 2012 were: apple juice, avocados, baby food (applesauce, carrots, peaches, and peas), bananas, cantaloupe, cauliflower, cherry tomatoes, mushrooms, onions, orange juice, papayas, plums, snap peas, summer squash, sweet bell peppers, tangerines, and winter squash. Domestic samples accounted for 60.7 percent of the samples while 36.6 percent were imports, 2.2 percent were of mixed origin, and 0.5 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 2012 and are too numerous to be included in their entirety in this summary. The PDP database file for 2012 and annual summaries/database files for previous years are available on the PDP website 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 2012, excluding water, residues exceeding the tolerance were detected in 0.53 percent (63 samples) of the total samples tested (11,893 samples). Of these 63 samples, 54 were imported from farms outside of the U.S. (86 percent) and 9 were domestic (14 percent). Residues with no established tolerance were found in 4.3 percent (508 samples) of the total samples tested. Of these 508 samples, 392 were imported (77 percent) and 116 were domestic (23 percent). Appendices B through F 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 G. More information on results is provided in the Sample Results and Discussion section of this summary.

In 2012, 485 (treated and untreated) drinking water samples were collected at water treatment facilities in 10 States and a total of 168 groundwater samples were collected from private domestic wells, school/childcare facilities, and municipal water facilities drawing from groundwater. 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 2012, no detections in treated water or groundwater 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.

Disclaimer: Mention of a trade name or brand name does not constitute endorsement or recommendation by USDA over similar products or vendors.

Acronyms and Abbreviations

% C.V.	Percent Coefficient of Variation
A2LA	American Association for Laboratory Accreditation
AL	Action Level
AMS	Agricultural Marketing Service
BQL	Below Quantifiable Level
EFED	Environmental Fate and Effects Division
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
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 2012

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 also are 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.

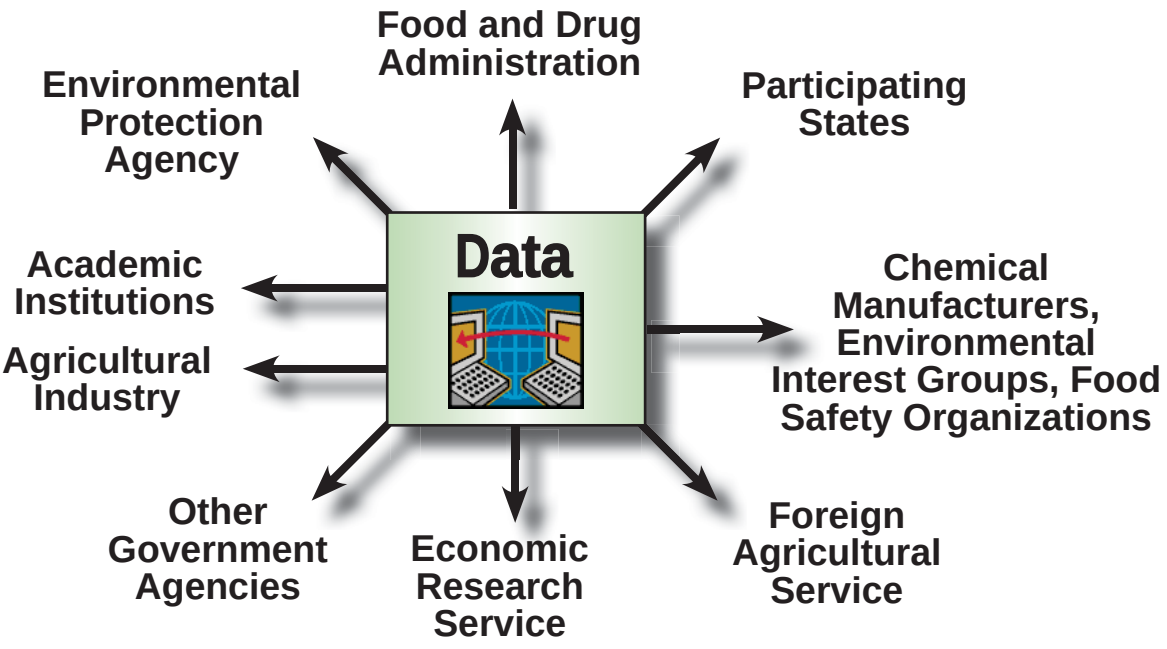
Figure 1(a) illustrates contributors to PDP program policy development and planning operations. Primary contributors to these activities include the participating States, EPA, U.S. Department of Agriculture's (USDA's) National Agricultural Statistics Service (NASS), and additional stakeholders including 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 2012, 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 13 individual sites in 10 States. A voluntary groundwater survey was continued in 2012 with homeowners, school/childcare facilities, and municipal water facilities at 166 sites in 15 States, plus Washington, D.C.

Laboratory services were provided by the States of California, 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 and FDA to select commodities and pesticides for testing and with EPA in the selection of drinking water and groundwater sites. The selected commodities represent the highest U.S. consumption, with an emphasis on foods consumed

(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.*

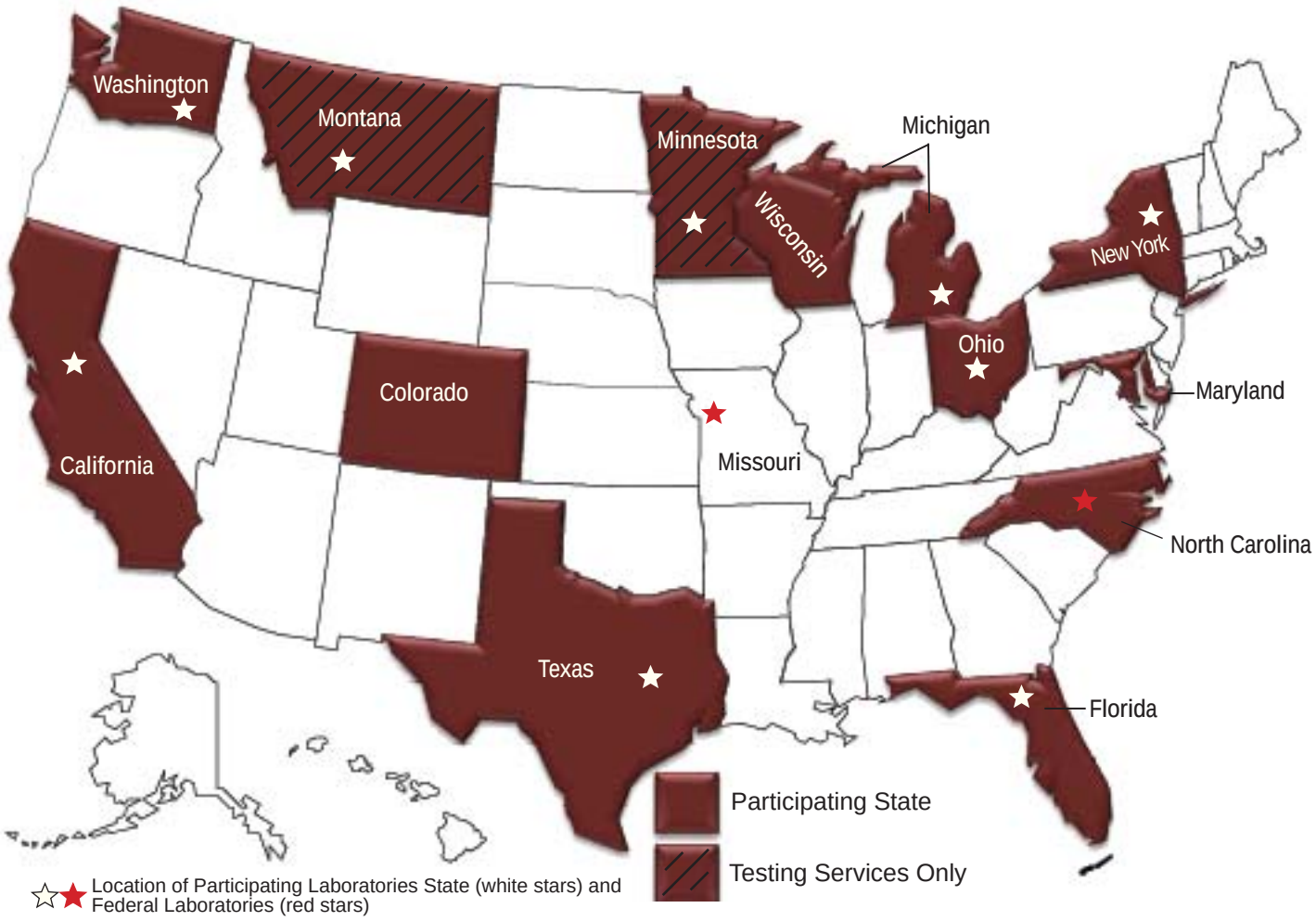


Figure 2. Program Participants. *During 2012, AMS established cooperative agreements with 13 States to sample and/or test PDP commodities. Together, these States represent about 50 percent of the Nation's population and all 4 census regions of the U.S. They also represent major U.S. producers of fruit and vegetables. State laboratories are responsible for analyzing fresh and processed fruit and vegetable samples and drinking water samples. The Federal AMS laboratory in Gastonia, North Carolina, analyzes meat, poultry, honey, and dairy products and the Federal GIPSA laboratory in Kansas City, Missouri, analyzes whole and processed grain products.*

by infants and children. Commodities are cycled through the program approximately every five years. High consumption fresh fruit and vegetable commodities remain in the program for two years to capture two full growing seasons, thereby capturing any changes due to seasonality or year-to-year variations. Processed products, dairy, meat, fish, and grains are tested for one full year. Appendix A provides a list of commodities tested by PDP from the beginning of the program in 1991 through 2013.

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 2012, over 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.

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 tests 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), wheat (Appendix C), butter (Appendix D), potable groundwater (Appendix E), and municipal drinking water (Appendix F). Environmental contaminants are consolidated into Appendix G, 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 2012, fruit, vegetables, and butter 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 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 2012, 31.2 percent of fruit, vegetable, and butter samples were collected at proxy sites. The commodities most often collected at these facilities were apple juice, baby foods (applesauce, carrots, peaches, and peas), butter, and orange juice.

Wheat samples were collected from trains, trucks, ships, 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, and butter 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 2012 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.

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

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Apple Juice			■	■	Jun-13
Avocado			■	■	Dec-12
Baby Food-Apple Sauce			■	■	Jun-13
Baby Food-Carrots	■	■	■	■	Dec-12
Baby Food-Peaches	■	■	■	■	Dec-12
Baby Food-Peas			■	■	Jun-13
Bananas		■	■	■	Mar-14
Butter	■	■	■	■	Dec-13
Cantaloupe	■	■			Jun-12
Cauliflower	■	■	■	■	Sep-13
Cherry Tomatoes	■	■	■	■	Dec-12
Mushrooms	■	■	■	■	Sep-13
Onion	■	■	■		Sep-12
Orange Juice		■	■		Jul-12
Papaya	■	■			Jun-12
Plums	■	■	■	■	Sep-13
Snap Peas	■	■	■	■	Dec-12
Summer Squash				■	Sep-14
Sweet Bell Peppers	■				Mar-12
Tangerines	■	■	■	■	Dec-12
Water, Finished		■	■	■	May-13
Water, Groundwater	■	■	■	■	May-13
Water, Untreated		■	■	■	May-13
Wheat Grain			■		Sep-12
Winter Squash	■	■	■	■	Mar-13

Table 1. PDP Commodity Collection Schedule for 2012. *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 2013).*

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 such as apple juice and baby foods (applesauce, carrots, peaches, and peas) 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 2012, over 600 sites granted access to sample collectors. The States provide AMS and NASS with annual volume information for commodities distributed at the sites. 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 -- apple juice, baby foods (applesauce, carrots, peaches, and peas), butter, and orange juice.

The total number of samples collected in each State for each commodity is listed in Table 2. Figure 2 illustrates the participating collection States and the laboratories to which samples were shipped. The total number of samples per commodity and the percentage of each that were either domestic, imported, or of unknown origin are shown in Figure 3. The origin of some fresh commodities can vary greatly throughout the year. Graphic examples of this variation can be found in Figure 4 where differences in origin (domestic vs. import) are depicted by month for snap peas, tangerines, and winter squash. Fresh and processed fruit and vegetable, and butter samples originated from 39 States and 25 foreign countries (refer to Appendix H). Wheat, groundwater, and drinking water samples are excluded from Appendix H because they rely on differential sampling frames.

♦ Fresh and Processed Commodities

Of all samples collected and analyzed in 2012, 86.1 percent (10,801 of 12,546) were fruit and vegetables, including fresh and processed products. The fresh commodities collected for PDP were avocado, bananas, cantaloupe, cauliflower, cherry/grape tomatoes, mushrooms, onions, papayas, plums, snap peas, summer squash, sweet bell

State	AV	BN	CN	CF	CT	MU	ON	PP	PU	SN	SS	TA	WS	YA	Total Fresh
California	78	117	150	78	156	156	117	39	159	156	39	148	156	78	1,627
Colorado	12	18	24	12	24	24	18	6	21	24	6	20	24	12	245
Florida	42	63	84	42	84	84	63	21	87	84	21	84	84	42	885
Maryland	24	36	48	24	48	48	36	12	37	48	12	46	48	24	491
Michigan	36	55	72	36	72	72	54	18	79	72	18	74	72	37	767
New York	54	81	108	54	108	108	81	27	96	108	27	107	108	54	1,121
N. Carolina	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Ohio	36	54	72	36	72	72	54	18	65	72	18	67	72	35	743
Texas	54	81	107	54	108	108	81	27	93	108	27	101	107	50	1,106
Washington	24	36	48	24	48	48	36	12	39	47	12	43	48	24	489
Wisconsin	12	18	24	12	24	24	18	6	21	24	6	19	23	10	241
TOTAL	372	559	737	372	744	744	558	186	697	743	186	709	742	366	7,715

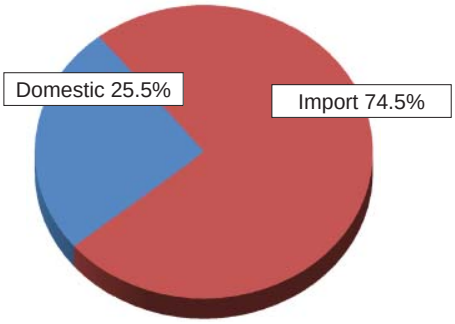
State	AJ	IA	IC	IE	IH	OJ	Total Processed	Total Fresh & Proccessed F&V	Dairy BU
California	78	78	156	78	156	65	611	2,238	156
Colorado	12	12	24	12	24	10	94	339	24
Florida	42	42	84	42	84	35	329	1,214	84
Maryland	24	24	48	24	48	20	188	679	48
Michigan	36	36	72	36	72	30	282	1,049	72
New York	54	54	108	54	108	45	423	1,544	108
N. Carolina	24	24	48	24	48	20	188	188	48
Ohio	36	36	72	36	72	30	282	1,025	72
Texas	54	54	108	53	93	45	407	1,513	108
Washington	24	24	48	24	48	20	188	677	48
Wisconsin	12	12	24	12	24	10	94	335	24
TOTAL	396	396	792	395	777	330	3,086	10,801	792

Commodity Legend		
AJ = Apple Juice	IA = Baby Food - Apple Sauce	PP = Sweet Bell Peppers
AV = Avocado	IC = Baby Food - Carrots	PU = Plums
BN = Bananas	IH = Baby Food - Peaches	SN = Snap Peas
BU = Butter	IE = Baby Food - Peas	SS = Summer Squash
CN = Cantaloupe	MU = Mushrooms	TA = Tangerines
CF = Cauliflower	OJ = Orange Juice	WS = Winter Squash
CT = Cherry Tomatoes	ON = Onions	YA = Papayas

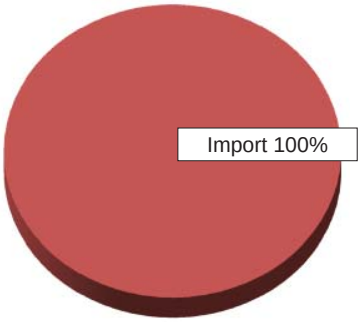
Table 2. Distribution of Samples Collected and Analyzed by Each Participating State. *This table includes those commodities collected at terminal markets and distribution centers. This table does not show the 300 wheat samples that were collected from grain lots, the168 groundwater samples that were collected at residential or school/daycare wells, or the 485 finished/untreated drinking water samples that were collected at water treatment facilities. Those distributions can be found in Figures 5, 6, and 7, respectively.*

A. Fresh Fruit and Vegetable Samples

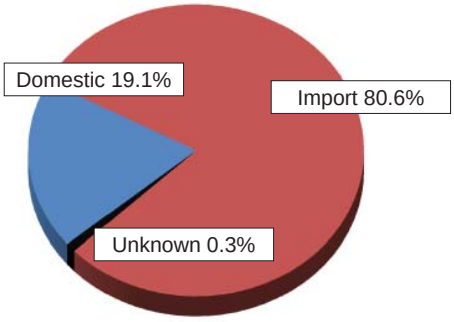
Avocados (372 Samples)



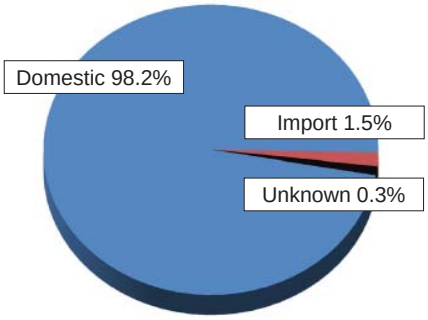
Bananas (559 Samples)



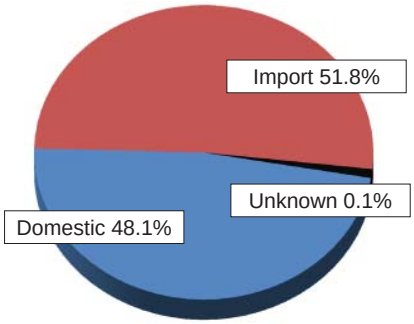
Cantaloupe (372 Samples)



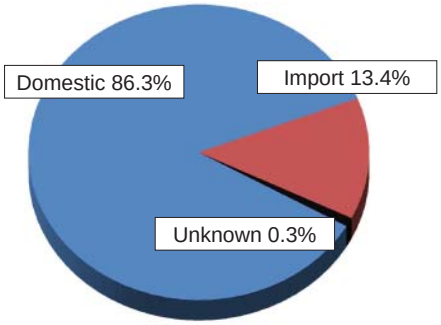
Cauliflower (737 Samples)



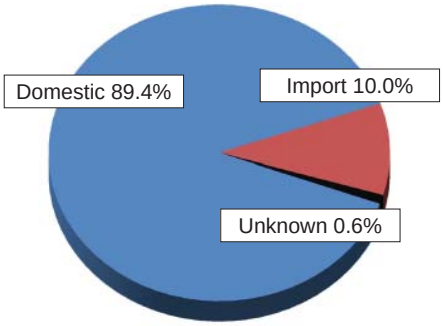
Cherry Tomatoes (744 Samples)



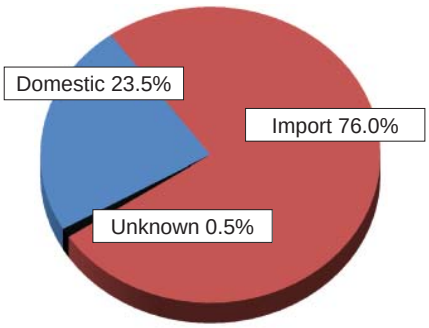
Mushrooms (744 Samples)



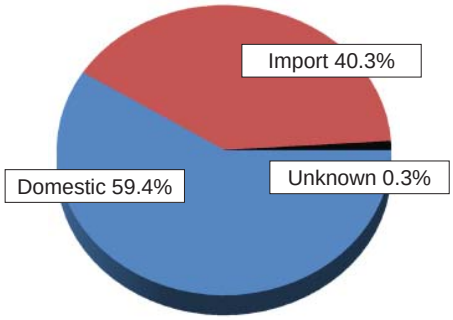
Onions (558 Samples)



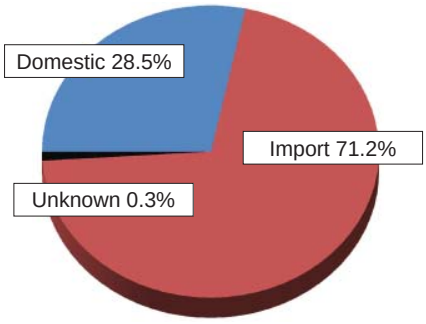
Papaya (366 Samples)



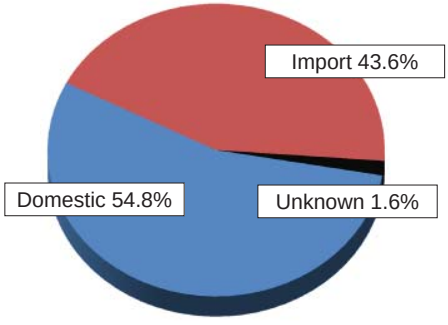
Plums (697 Samples)



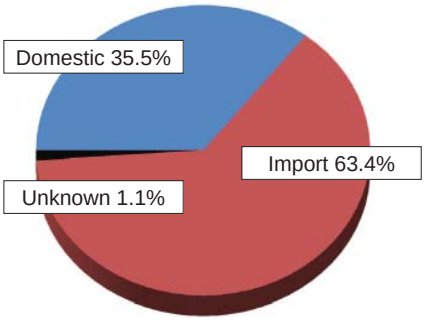
Snap Peas (743 Samples)



Summer Squash (186 Samples)



Sweet Bell Peppers (186 Samples)



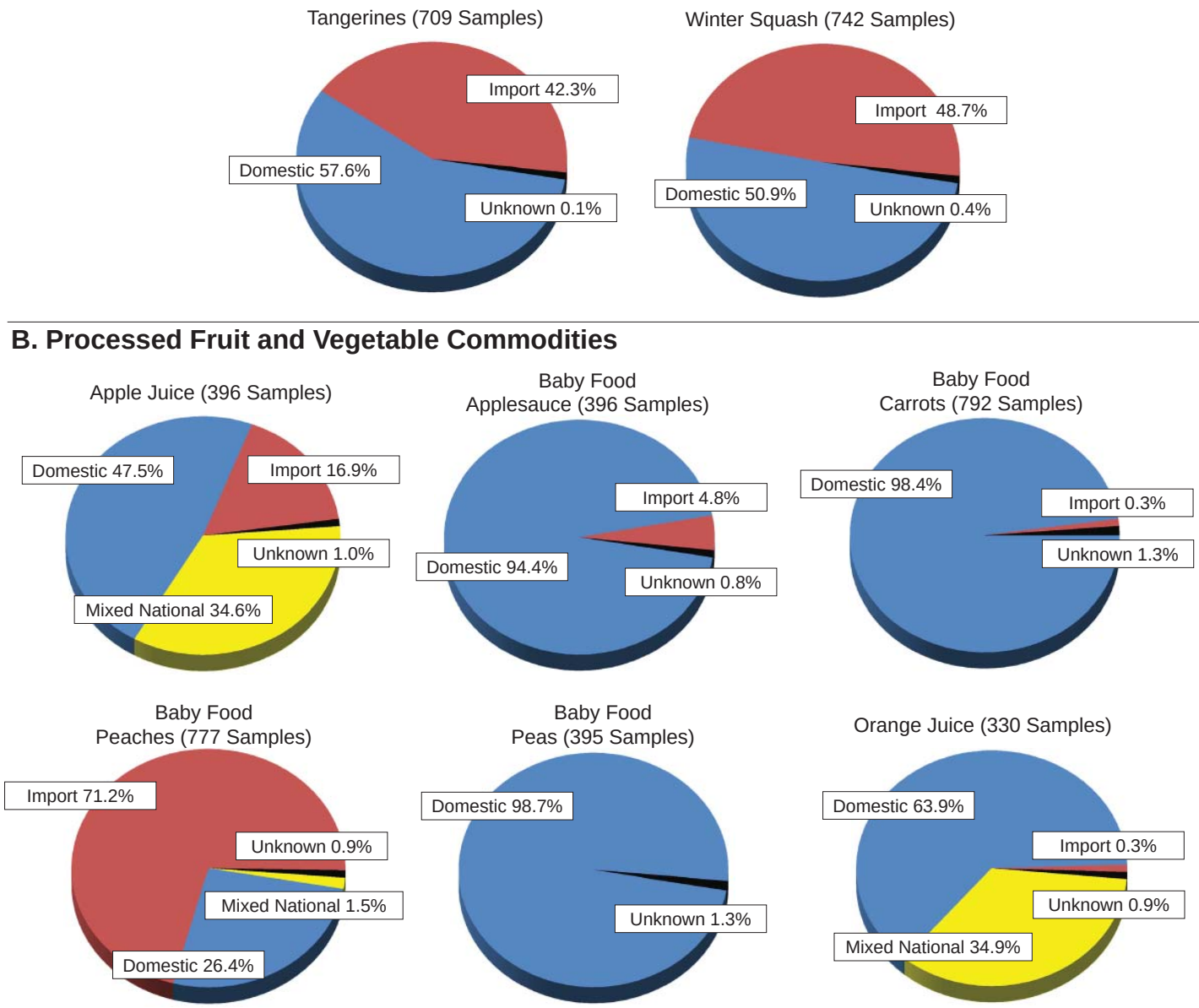


Figure 3. Commodity Origin. *This figure depicts the proportion of commodity origin (domestic, import, unknown, and mixed national origin) for each fresh and processed fruit and vegetable product tested in 2012.*

peppers, tangerines, and winter squash. The processed commodities included apple juice, baby food (applesauce, carrots, peaches, peas), and orange juice (ready-to-serve and concentrate). All fresh fruit and vegetable samples weighed either 3 or 5 pounds with the exception of 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 bananas and winter squash. For processed samples, apple juice and orange juice samples were 1 quart or 32 ounces.

♦ Baby Food

In 2012, PDP tested four types of baby food – applesauce, carrots, peaches, and peas. 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. The following number of samples were collected for each type of baby food: applesauce – 396 samples; carrots – 792 samples; peaches – 777 samples; and peas – 395 samples.

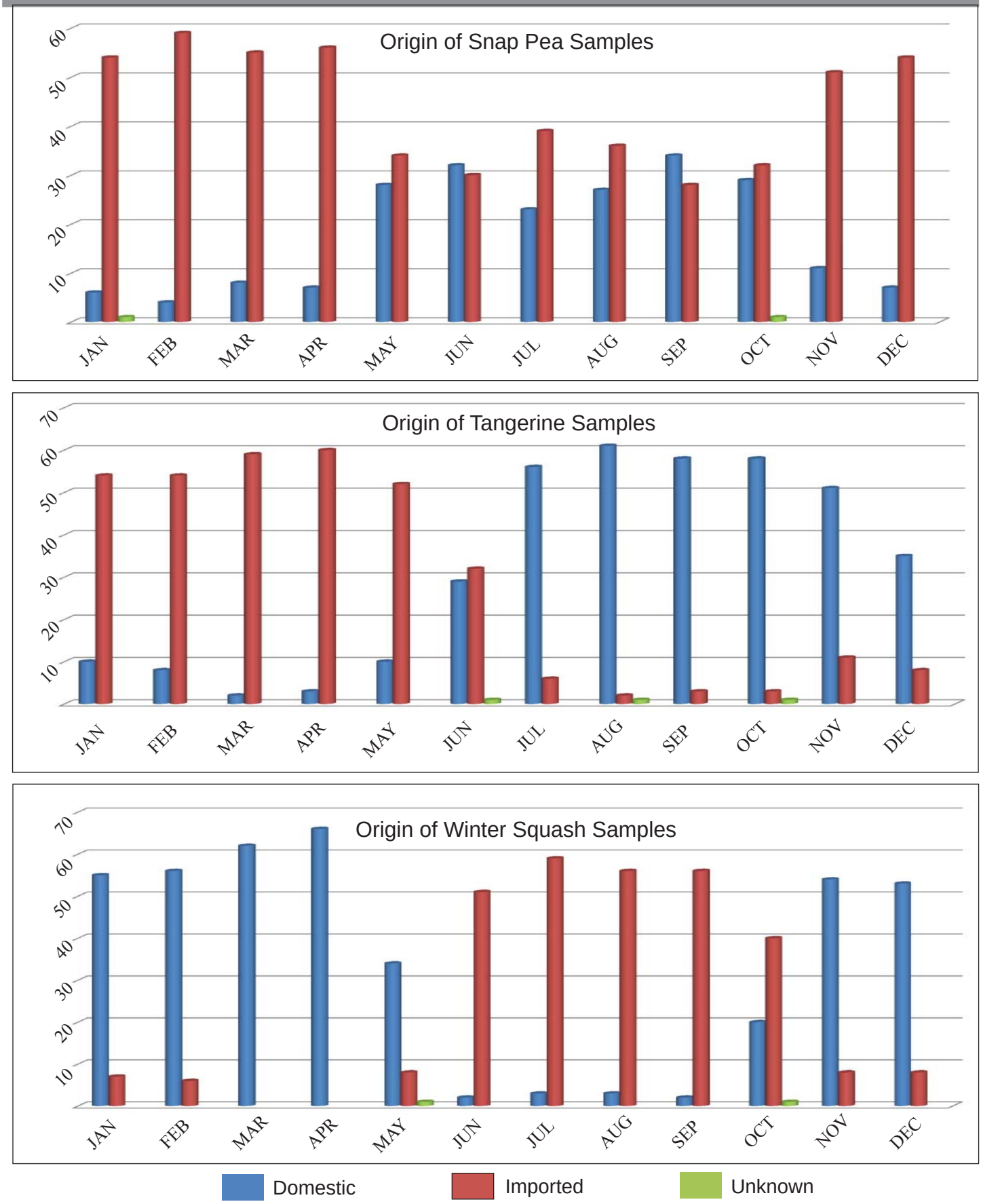


Figure 4. Origin of Selected Fresh Commodities: Snap Pea, Tangerine, and Winter Squash Samples. *Differences in origin (domestic vs. import) are illustrated by month. The targeted number of samples is 62 per month for each commodity.*

♦ Wheat

USDA Federal Grain Inspection Service (FGIS) inspectors collected 300 wheat samples in July, August, and September 2012. 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 barges/ships (48 percent of samples), railcars/hopper cars (43 percent of samples), and trucks (4 percent of samples). Wheat slated for export was excluded from the sampling scheme. PDP chain-of-custody procedures are similar to those used for fruit and vegetable samples. Sample information for wheat included: inspection location, inspection point code, field office location, official agency collecting the sample, carrier identification (barge/ship, railcar/hopper car, truck), 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. Wheat samples originated from 24 States and were collected through 5 regional GIPSA offices. There were no imported wheat samples; all were of domestic origin. The origin and number of samples collected from each State is displayed in Figure 5; sample results may be found in Appendix C.

♦ Butter

In 2012, PDP collected and analyzed 792 butter samples. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets. The sample size for butter was one pound. Analysis was performed by the New York laboratory. Results for butter are shown in Appendix D.

♦ 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 168 samples from 166 sites were collected and tested for the 2012 groundwater program. These included 30 private residence wells in 9 States (Idaho, Maryland, Michigan, Minnesota, Nebraska, New York, North Carolina, Virginia, and Wisconsin) and 2 in Washington, D.C. Additionally, one site in Virginia, a stream near a golf course, was sampled at three locations to study the concentrations of chemicals used on golf courses. Also included were 111 public utilities drawing from groundwater in 7 States (Florida, Maryland, New Jersey, New Mexico, New York, Ohio, and Virginia) and 23 school/childcare facilities in 2 States (Oregon and Pennsylvania).

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 2012 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

Figure 5. Location of Wheat Samples by Grower State. *A total of 300 wheat samples were collected in 2012. The samples orginated from 24 States. Residue testing for all samples was performed by the GIPSA laboratory located in Kansas City, Missouri.*

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

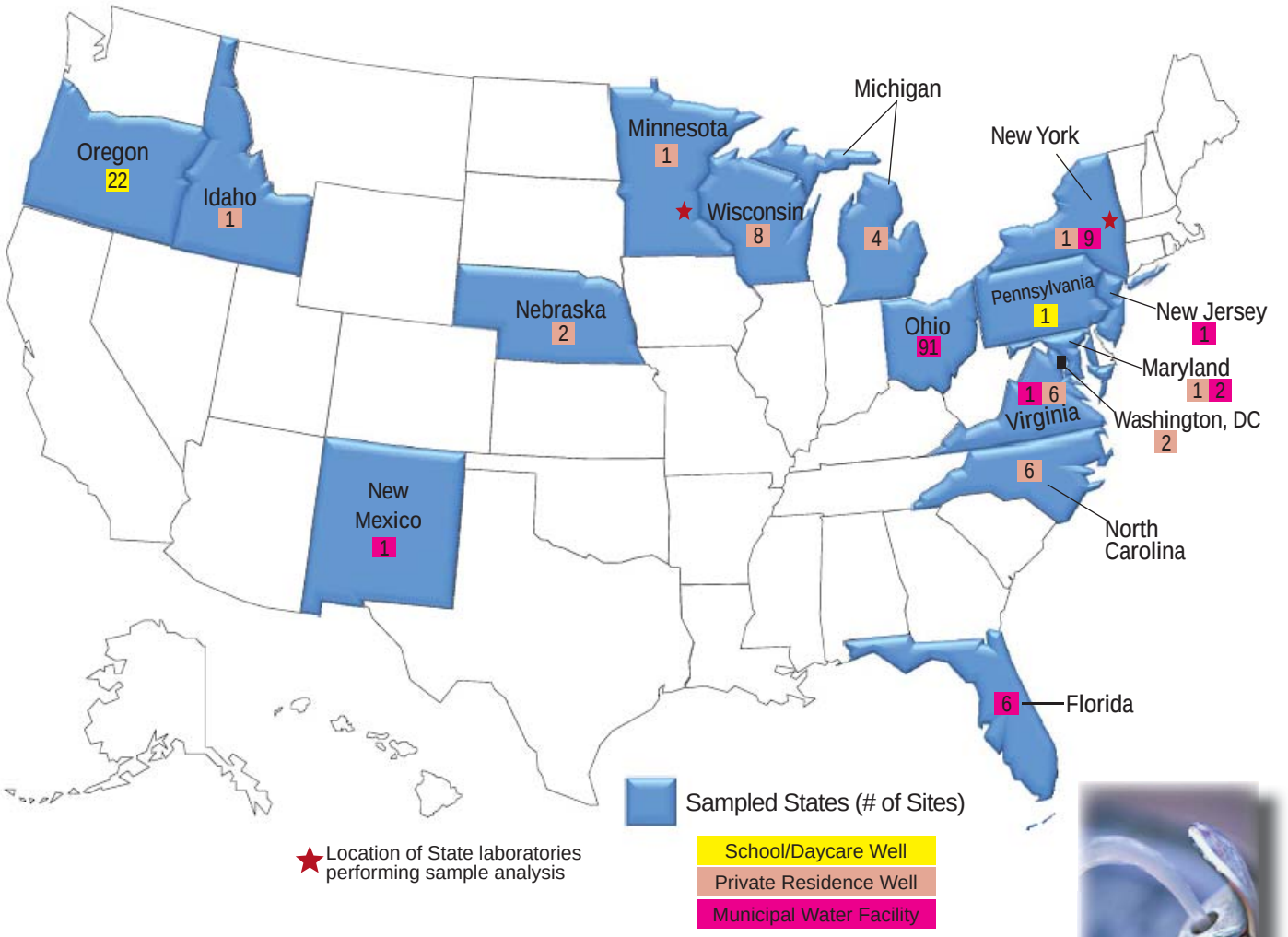


Figure 6. Location of Groundwater Collection Sites in 2012. *A total of 168 groundwater samples were collected from 23 school/daycare wells, 32 private residence wells, and 111 municipal water facilities in 15 States plus Washington, D.C.*

(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.

For 2012, EPA's Environmental Fate and Effects Division (EFED) requested that PDP target public utilities drawing from surface water sources in watersheds where N-methyl carbamate and organophosphate insecticides were being used. PDP partnered with EFED and the U.S. Geological Survey (USGS) and identified these watersheds using Geological Information System layers of watershed boundaries and pesticide use for the pesticides of interest. 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 2012 PDP testing program. Two hundred fifty-three (253) untreated and 232 finished drinking water samples were collected from 13 community water systems in 10 States – California (2 sites), Florida (1 site), Kentucky (1 site), Louisiana (1 site), Missouri (1 site), New Jersey (1 site), North Carolina (2 sites), North Dakota (2 sites), Pennsylvania (1 site), and Virginia (1 site). The sites in Florida, Louisiana, and Virginia were sampled only once for surveillance purposes, checking for carbamate and organophosphate detections.

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

Eleven laboratories (9 State and 2 Federal) performed analyses for PDP. These laboratories are equipped with instrumentation capable of detecting residues at very low levels. Laboratory staff members receive intensive training and must demonstrate analytical proficiency on an ongoing basis. Program scientists continually test

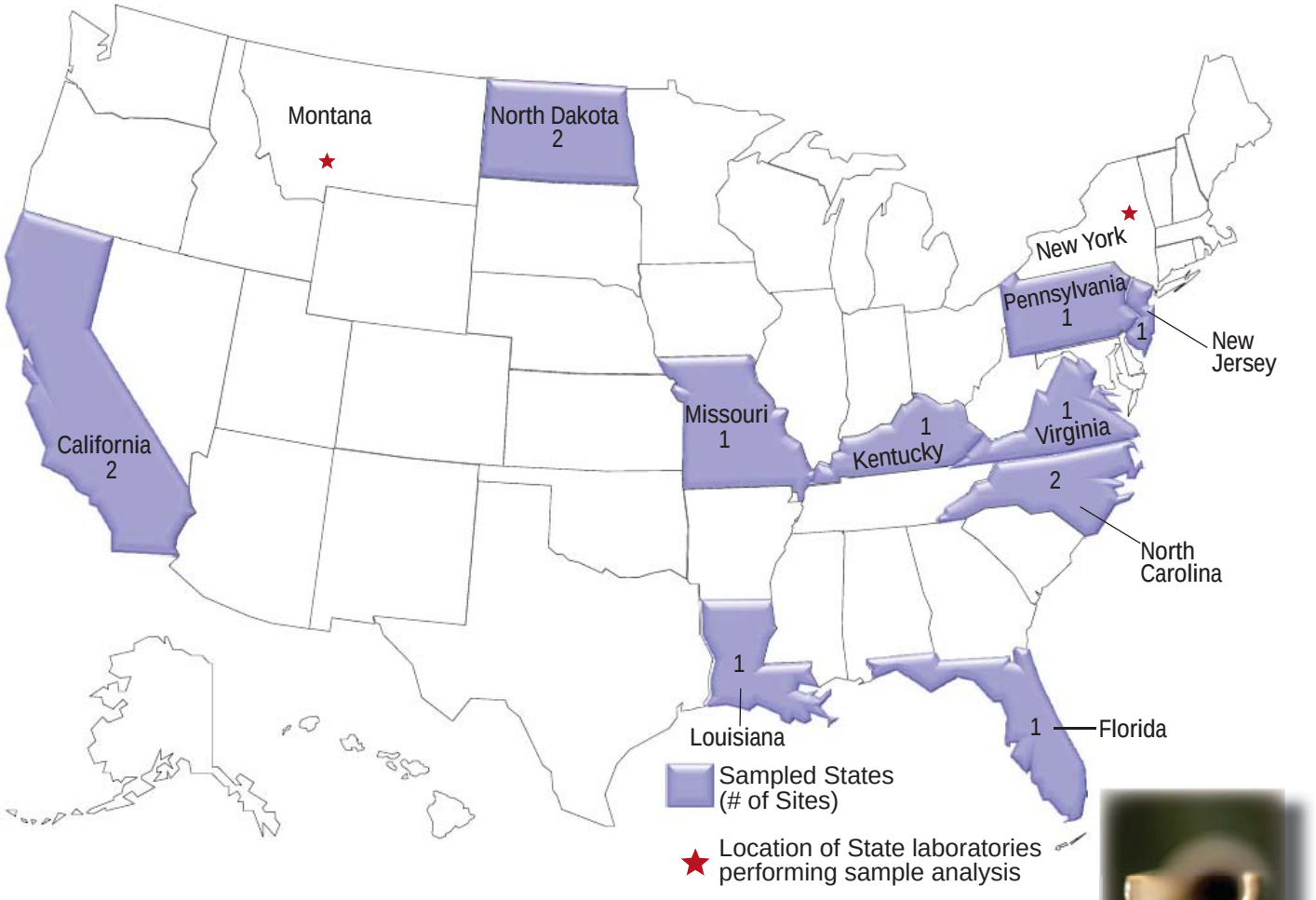


Figure 7. Location of Drinking Water Collection Sites at Community Water Systems in 2012. *A total of 13 water treatment facilities in the U.S. were sampled in paired units (485 coordinated treated and untreated samples). Sites represent areas of varied geographical settings but are located in watersheds where pesticides were known to have been heavily applied.*

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 334 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 bananas, 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; bananas and tangerines were peeled; avocados were peeled and pitted, etc. Processed commodities were not washed or cooked prior to homogenization and were homogenized with all liquid that was present in the sample package. Apple and orange juice concentrates were reconstituted according to package directions while ready-to-serve apple juice and orange juice were 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 website 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, Texas, Washington, and AMS NSL laboratories used various Quick, Easy, Cheap, Rugged and Safe (QuEChERS[1])-based approaches. 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 2012, PDP laboratories analyzed baby food applesauce (396 samples), baby food carrots (792 samples), baby food peaches (777 samples), and baby food peas (395 samples) for a total of 310 parent pesticides, metabolites, degradates, and/or isomers, plus 16 environmental contaminants. The baby food applesauce samples were analyzed by the Florida laboratory and baby food carrots were analyzed by the Ohio laboratory. Baby food peaches were analyzed by the California and Michigan laboratories, while baby food peas were analyzed by the Texas laboratory. Multiple containers of a given

[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.

sample (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, GC-mass selective detector (MSD), GC-MS/MS, and LC-MS/MS.

♦ Wheat

The USDA GIPSA laboratory in Kansas City, MO, analyzed 300 wheat samples for 51 parent pesticides, metabolites, degradates, and/or isomers. Wheat samples were stored at room temperature until time of grinding. Wheat samples were extracted an acetonitrile-water solvent using followed by SPE cleanup and analyzed by GC-MS/MS and LC-MS/MS.

♦ Butter

The PDP New York laboratory tested 792 butter samples for 157 parent pesticides, metabolites, degradates, and/or isomers, plus 14 environmental contaminants. Upon arrival at the testing facility, samples were visually examined for acceptability and discarded if warm to the touch, rancid, or leaking. Samples were extracted using a modification of the QuEChERS method and analyzed using GC-MS/MS and LC-MS/MS.

♦ Potable Groundwater from Domestic, School/Childcare Facility, and Municipal Wells

In 2012, PDP conducted three groundwater testing studies: one for private domestic wells, one for school/childcare facilities, and one for municipal water facilities drawing from groundwater. 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, are detected more often than parent compounds. 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 are scarce.

The Minnesota and Montana laboratories analyzed groundwater samples for 201 parent pesticides, metabolites, degradates, and/or isomers, plus 8 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. Upon arrival at the testing laboratory, samples were visually examined for acceptability (no leakage). Samples were refrigerated until time of analysis, which began within five working days of collection. One liter of the sample was extracted for compounds amenable to GC-MS analysis and one liter was extracted for compounds amenable to LC-MS/MS. A third bottle was held in reserve in case of breakage or laboratory accident.

♦ Municipal Drinking Water

The Montana and Minnesota laboratories analyzed drinking water for 201 parent pesticides, metabolites, degradates, and/or isomers, plus 8 environmental contaminants. These compounds were determined to be of interest to EPA based on data needs for risk assessment as required under FQPA. Samples were collected at water treatment facilities. Each sample consisted of two 1-liter amber glass bottles of treated water and two 1-liter amber glass bottles of raw untreated water. 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 the other for compounds amenable to LC-MS/MS analysis. The extraction methods used were initially based on SPE methods developed by 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[2] (ISO 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 assigned to each laboratory that is 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, baby food, wheat, and butter, an amount of distilled water, equivalent to the natural moisture content of the commodity, is run through the entire analytical process to confirm glassware cleanliness and system integrity.

• Matrix Blank - A previously analyzed sample of the same commodity, which contains either very low concentrations of known residues or no detectable residues, is divided into two portions. The first portion is used to determine background information on naturally occurring chemicals and the second to prepare a matrix spike.

• Matrix Spike(s) - Prior to extraction, a portion of matrix blank is spiked with marker pesticides to determine the precision and accuracy of the analyst and instrument performance. Marker pesticides are compounds selected from different pesticide classes (e.g., organochlorines, organophosphates, carbamates, conazoles, imidazolinones, macrocyclic lactones, neonicotinyls, phenoxy acid herbicides,

[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.

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 2012, PDP laboratories quantitated a total of 82,467 matrix spikes, with an overall mean recovery of 96 percent and an overall 25 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 2012, PDP laboratories quantitated a total of 32,568 process controls on 12,546 samples, with an overall mean recovery of 97 percent and an overall 20 % C.V. Of these process controls, 110 (0.3 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 an international PT program, the Food Analysis Performance Assessment Scheme (FAPAS) PT program, administered by the Food and Environment Research Agency, Sand Hutton, York, United Kingdom. In 2012, PDP laboratories that routinely analyze fruit and vegetables via MRMs participated in two FAPAS rounds – one for potatoes that contained seven fortified analytes and one for tomatoes that contained eight fortified analytes. 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. For this internal program, the California Department of Food and Agriculture 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 2012, PDP laboratories received:

Three multiresidue fruit and vegetable PT rounds (cherry/grape tomatoes, snap peas, and tangerines), each consisting of three test samples. The cherry/grape tomatoes were fortified with 12 compounds, the snap peas with 13 compounds, and the tangerines with 14 compounds.

For water, 2 proficiency sample sets were analyzed during 2012, with 10 compounds fortified in each round. Custom-designed test solutions, based on testing profiles and detection limits, were used for spiking, rather than distribution of spiked samples, due to stability concerns. For each 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 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 website. The data files on the website 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 2012, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, wheat, butter, groundwater, and treated and untreated drinking water. Of the 12,546

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

- 9 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

INTERNET

INTERNET

DATA REVIEW AT HQ

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

YEAR-END REVIEW

- Data reconciliation

DATA REPORTING

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

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

samples collected and analyzed, 10,801 were fresh and processed fruit and vegetable commodities, 300 were wheat samples (collected from July through September 2012), 792 were butter samples, 168 were groundwater samples, and 485 were drinking water samples. Appendix B tabulates the distribution of residues in fruit and vegetables for the complete 2012 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, and F, provide the distribution of residues for wheat, butter, groundwater, and treated and untreated drinking water, respectively. Appendix G 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 and butter, 60.7 percent of all samples were produced in the United States, 36.6 percent were imports, 2.2 percent were of mixed origin, and 0.5 percent were of unknown origin. Appendix H shows the distribution of sample origin by State or country. Of all fresh and processed fruit and vegetables and butter samples collected and analyzed, approximately 19.8 percent (2,300 of 11,593) were grown, packed, and/or distributed in or from California. Wheat and groundwater and drinking water are excluded from Appendix H 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). Wheat is collected from barges/ships, railcars/hopper cars, and trucks. Treated and untreated drinking water samples are collected from community water treatment facilities. Groundwater samples are collected from private domestic wells, school/childcare facilities, and municipal water facilities drawing from groundwater. Appendix I 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, G, J, K, and L.

♦ 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 2012. The data generated by PDP reflect pesticide residues in foods, both domestic and imported products, available to the U.S. consumer. Many fresh and processed commodities are almost entirely of domestic origin, such as baby food applesauce (94.4 percent), baby food carrots (98.4 percent), baby food peas (98.7 percent), cauliflower (98.2 percent), onions (89.4 percent), and mushrooms (86.3 percent) with only minor import (4.8 percent, 0.3 percent, 0 percent, 1.5 percent, 10.0 percent, and 13.4 percent, respectively) and unknown origins (0.8 percent, 1.3 percent, 1.3 percent, 0.3 percent, 0.6 percent, and 0.3 percent, respectively). Other fresh

commodities, such as snap peas, tangerines, and winter squash, 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 cherry tomatoes, winter squash, plums, tangerines, and snap peas can be found in Appendix I. 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 cherry tomato data in Appendix I illustrate that in 2012 flonicamid and myclobutanil were detected more frequently in imported samples than in domestic samples. Flonicamid was detected in 25.3 percent of the samples from Mexico and 2.8 percent of the U.S. samples and myclobutanil was detected in 23.6 percent of the Mexican samples and in 1.7 percent of the domestic samples. Bifenthrin and chlorantraniliprole were detected more frequently in domestic samples than in imports. Bifenthrin was detected in 35.9 percent of U.S. samples and 14.4 percent of Mexican samples and chlorantraniliprole was detected in 29.9 percent of U.S. samples and 7.3 percent of samples from Mexico. Boscalid, clothianidin, and mandipropamid were detected with relatively equal frequency in both the U.S. and Mexican cherry tomatoes.

For winter squash, endosulfan sulfate was detected more frequently in imported samples than in domestic samples. Endosulfan sulfate was detected in 27.9 percent of the samples from Mexico and 15.8 percent of the U.S. samples. Propamocarb hydrochloride was detected more frequently in U.S. samples than in Mexican samples – propamocarb hydrochloride was detected in 16.1 percent of U.S. samples and 4.9 percent of Mexican samples. Bifenthrin and imidacloprid were detected with relatively equal frequency in both the U.S. and Mexican winter squash.

The plum data in Appendix I illustrate that in 2012 iprodione was detected more often in imported samples – iprodione was detected in 93.2 percent of plums imported from Chile and 1.9 percent of U.S. product. Fludioxonil was detected more frequently in domestic plums – 81.6 percent of U.S. plums contained detectable residues of fludioxonil, compared to 13.6 percent of Chilean plums.

For tangerines, pyrimethanil was detected more often in imported samples – pyrimethanil was detected in 11.5 percent of Chilean tangerines and 0.5 percent of domestic tangerines. Thiabendazole was detected more frequently in domestic tangerines – 78.0 percent of U.S. tangerines contained detectable residues of thiabendazole, compared to 50.0 percent of tangerines imported from Chile.

The snap pea data in Appendix I illustrate that in 2012 azoxystrobin, carbendazim, cyhalothrin, difenoconazole, dimethoate, omethoate, tebuconazole, and tetrahydrophthalimide were detected more frequently in imported samples than in domestic samples. For example, carbendazim was detected in 40.0 percent of the samples from Guatemala and 2.8 percent of the U.S. samples. Dimethoate was detected in 38.8 percent of the samples from Guatemala and 17.3 percent of the U.S. samples.

All pesticides detected, except carbendazim, difenoconazole, and tebuconazole 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 growth regulators/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 growth of pest populations, 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 five percent of samples tested are shown in Appendix J. 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 2012 is presented in Appendix K. These data indicate that 47.4 percent of all samples tested, excluding groundwater and treated and untreated drinking water, contained no detectable pesticides, 23.6 percent contained 1 pesticide, and 29.0 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 G, have been excluded from this count of pesticides.

One sample each of cherry tomatoes and snap peas contained residues of thirteen pesticides at very low levels. The cherry tomatoes were from Mexico and the snap peas were from Guatemala. All 13 residues found in the cherry tomatoes sample were within tolerances. Four of the 13 residues detected in snap peas – carbendazim, difenoconazole, profenofos, and tebuconazole – had no tolerance established and one, tetrahydrophthalimide (THPI, a breakdown product of the pesticide captan) exceeded the established tolerance for captan. Multiple residue detections can result from the application of more than one pesticide on a crop during a growing season; in addition, a number of other factors can contribute to multiple detections. For example, unintentional spray drift in the field, planting of crops in fields previously treated with the pesticide, and/or transfer of residues of postharvest fungicides or growth regulators 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

Wheat: The USDA GIPSA laboratory conducted testing on 300 wheat samples using a multiresidue method. Appendix C shows that four different residues, representing four pesticides, were detected in the wheat samples. The most frequently detected residue was deltamethrin which was detected in 38 samples (12.7 percent). Azoxystrobin was detected in 20 samples (6.7 percent), boscalid in 5 samples (1.7 percent), and metconazole in 1 sample (0.3 percent). All residue detections determined by the multiresidue method were lower than the established tolerances.

Butter: The New York laboratory conducted testing for pesticide residues on 792 butter samples. Overall, 16 different residues (including metabolites and isomers), representing 15 pesticides, were detected in the butter samples. Trans permethrin was detected in 216 samples (27.3 percent), bifenthrin was detected in 203 samples (25.6

percent), and cis permethrin in 201 samples (25.4 percent). Cyhalothrin was detected in 156 samples (19.7 percent), spinosad was detected in 31 samples (3.9 percent), and piperonyl butoxide in 19 samples (2.4 percent). Chlorpyrifos and propargite were detected in less than one percent of the samples, and chlorpropham, cyfluthrin, cypermethrin, dichlorvos, dicofol p,p', endosulfan II, imidacloprid, and thiabendazole were each detected in one sample (0.1 percent). All residue detections were lower than the established tolerances, where tolerances were established.

♦ Potable Groundwater

In 2012, 32 groundwater samples were collected from private domestic wells, 23 from school/ childcare facilities, and 111 from municipal water facilities drawing from groundwater. Overall, PDP detected 51 different residues (including metabolites), representing 40 pesticides, in the groundwater samples. Most of the detections were for herbicides or their metabolites. The samples with detectable residues came from 98 different sites. Residue profiles are shown in Appendix E.

In April 2012, EPA's Office of Water issued "Human Health Benchmarks for Pesticides (HHBPs)" at www.epa.gov/pesticides/hhbp. 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 2012, none of the groundwater data exceeded any of the EPA HHBPs.

♦ Municipal Drinking Water

PDP analyzed 485 water samples (253 untreated samples and 232 finished samples) from community water systems. Appendix F shows the concentration of detected residues in treated and untreated water. Fifty-nine different residues (including metabolites), representing 48 pesticides, were detected in the finished drinking water and 74 different residues (including metabolites), representing 61 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 F also lists the MCLs, HA values, Fresh Aquatic Organism (FAO) criteria and EPA's new HHBPs. During 2012, 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 2012, 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 G.

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 in butter (78.5 percent), summer squash (3.8 percent), and winter squash (2.3 percent). DDT p,p' was detected in two winter squash samples (0.3 percent) and DDT o,p' was detected in 1 butter sample (0.1 percent). No residues of DDD o,p' or DDD p,p' were detected. All residues detected were lower than established FDA Action Levels (ALs). Drinking water (treated or untreated) and 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 (total, cis, trans); and hexachlorobenzene (HCB). HCB was used as a seed protectant until 1965 and, 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 6.3 percent of winter squash samples, 0.8 percent of cantaloupe samples, 0.5 percent of summer squash samples, and 0.1 percent of butter samples. Chlordane (cis) and chlordane (trans) were detected in 3.4 percent and 1.6 percent of winter squash samples and in 1.1 percent and 0.5 percent of summer squash samples. Heptachlor epoxide was detected in 1.2 percent of winter squash samples. For these cases, the detected levels were lower than the FDA ALs.

Endrin was detected in 0.8 percent of winter squash samples and in 0.5 percent of summer squash samples. Endrin also was detected in six samples of snap peas (0.8 percent); one of these samples contained 0.06 ppm of endrin, which exceeded the established AL of 0.03 ppm for snap peas. Drinking water (treated or untreated) and groundwater samples were not tested for these other extraneous pesticides.

♦ 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 certain 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 identifying 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 and EPA are immediately notified.

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

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 2012 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 L 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 549 samples with 829 pesticides were reported to FDA as Presumptive Tolerance Violations. Pesticides exceeding the tolerance were detected in 0.53 percent (63 samples) of the total samples tested (11,893 samples). Of these 63 samples, 54 were imported (86 percent) and 9 were domestic (14 percent). The samples containing pesticides that exceeded established tolerances included: 24 cherry tomato samples, 32 snap pea samples, 2 summer squash samples, 1 sweet bell pepper sample, and 4 winter squash samples.

Residues with no established tolerance were found in 4.3 percent (508 samples) of the total samples tested (11,893 samples). Of these 508 samples, 392 were imported (77 percent) and 116 were domestic (23 percent). These samples included 472 fresh fruit and vegetable samples, 33 processed fruit/vegetable samples, and 3 butter samples. The 33 processed fruit/vegetable samples were baby food applesauce, baby food peaches, and orange juice. There were 336 samples that contained 1 pesticide for which no tolerance was established, 108 samples with 2 pesticides for which no tolerance was established, 43 samples with 3 pesticides for which no tolerance was established, 20 samples with 4 pesticides for which no tolerance was established, and 1 sample of snap peas that contained 5 pesticides for which no tolerance was established. Twenty-two of the 508 samples also contained 1 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 or growth regulators applied to other commodities stored in the same storage facilities. The pesticide levels and commodities are listed in Appendix L.

Appendix A

Commodity History

Appendix A identifies commodities sampled by the Pesticide Data Program (PDP) through December 2013. Updates to this list are posted on the PDP website at www.ams.usda.gov/pdp.

APPENDIX A. COMMODITY HISTORY
AS OF DECEMBER 2013

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 (T-1)	Jan-03	Dec-03
Apples	Jan-04	Dec-05
Apples	Jan-09	Dec-10
Apples (B-1)	Aug-12	Oct-12
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 (TSP)	Jul-03	Dec-03
Bananas	Jan-06	Dec-07
Bananas	Apr-12	Ongoing
Blueberries (cultivated) [2]	Jan-07	Dec-08
Broccoli	Oct-92	Dec-94
Broccoli	Jan-01	Dec-02
Broccoli	Oct-06	Sep-08
Broccoli	Jan-13	Ongoing
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
Carrots	Jan-13	Ongoing
Cauliflower	Oct-04	Sep-06
Cauliflower	Oct-11	Sep-13
Celery	Feb-92	Mar-94
Celery	Jan-01	Dec-02
Celery	Jan-07	Dec-08
Celery	Jan-13	Ongoing
Cherries [3]	May-00	Aug-01
Cherries	May-07	Sep-07
Cilantro	Oct-09	Sep-10
Cranberries	Oct-06	Dec-06
Cucumbers	Jan-99	Dec-00
Cucumbers	Oct-02	Sep-04
Cucumbers	Jan-09	Dec-10
Eggplant	Jan-05	Dec-06
Grapefruit	Aug-91	Dec-93
Grapefruit	Jan-05	Dec-06
Grapes [1]	May-91	Dec-96
Grapes	Jan-00	Dec-01

Commodity	Start Date	End Date
Grapes (TSP)	Jul-03	Dec-03
Grapes	Jan-04	Dec-05
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 Beans	Jul-13	Ongoing
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	Sep-13
Nectarines [4]	Jul-00	Sep-01
Nectarines	Jan-07	Dec-08
Nectarines	Jan-13	Ongoing
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
Peaches (B-1)	Aug-12	Oct-12
Peaches	Jul-13	Ongoing
Pears	Jan-97	Jun-99
Pears (S-1)	Jul-98	Jun-99
Pears	Oct-03	Sep-05
Pears	Jan-09	Dec-10
Pears (B-1)	Oct-12	Nov-12
Pineapples	Jul-00	Jun-02
Plums [6]	Jan-05	Dec-06
Plums	Oct-11	Sep-13
Potatoes	May-91	Dec-95
Potatoes (S-4)	Dec-96	Dec-97
Potatoes	Jul-00	Jun-02
Potatoes	Jan-08	Dec-09
Raspberries [2]	Jan-13	Dec-13
Snap Peas	Jan-11	Dec-12
Spinach [1]	Jan-95	Sep-97
Spinach	Jul-02	Dec-03

Commodity	Start Date	End Date
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	Mar-13

[1] Excludes sampling hiatus September - November 1996.

[2] Frozen collected when fresh unavailable.

[3] Sampling adjusted for market availability. Cherries were sampled for 2 years (May-00 - Aug-01) for a total of 6 months.

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

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

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

[7] Spinach ended earlier than planned due to the unavailibility of product.

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

(B-1) Special project testing for bifenthrin in multi-residue screen.
(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	Jun-13
Applesauce	Jul-02	Dec-02
Applesauce	Jan-06	Dec-06
Asparagus, Canned	Jul-03	Dec-03
Baby Food, Applesauce	Jul-12	Jun-13
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	Jun-13
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
Plums, Dried (Prunes) [5]	Jan-05	Dec-06
Potatoes, Frozen	Jan-06	Dec-07
Raisins	Jul-06	Jun-07
Raspberries, Frozen [2]	Jan-13	Dec-13
Spinach, Canned	Oct-97	Dec-98
Spinach, Frozen	Jan-99	Dec-99
Spinach, Canned	Jan-04	Jun-04

Commodity	Start Date	End Date
Spinach, Canned/Frozen	Jul-10	Jun-11
Strawberries, Frozen [2]	Jan-98	Sep-00
Sweet Corn, Canned/Frozen	Apr-94	Mar-96
Sweet Corn, Canned/Frozen [4]	Oct-01	Sep-03
Sweet Corn, Frozen [2]	Oct-08	Sep-10
Tomato Paste, Canned	Jan-01	Jun-01
Tomato Paste, Canned	Jan-09	Dec-09
Tomatoes, Canned	Jul-99	Jun-00
Winter Squash, Frozen [2]	Jan-97	Jun-99

[1] Excludes sampling hiatus September - November 1996.

[2] Frozen collected when fresh unavailable.

[3] Excludes sampling hiatus January 1999.

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

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

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

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

Grains

Commodity	Start Date	End Date
Barley	Oct-01	Sep-03
Corn	Oct-06	Sep-08
Oats	Jul-99	Apr-00
Oats	Jan-10	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	Jul-12	Sep-12
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 (TSP)	Jul-03	Dec-03
Peanut Butter	Jan-06	Dec-06

Dairy Products

Commodity	Start Date	End Date
Butter	Jan-03	Dec-03
Butter	Jan-12	Dec-13
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 / Pork 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 Products

Commodity		Start Date	End Date
Fish [4]	Catfish	Apr-08	Jun-10
Fish	Salmon	Jul-13	Ongoing

Other Products

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 (70 sites)	Jan-04	Apr-13
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, D.C.		
Bottled Water		
10 Participating States	Jan-05	Dec-06
Groundwater		
1,495 Private Wells in 45 States plus Washington, DC	Jan-07	Apr-13
16 Municipal Water Facilities in 13 States	Mar-10	Apr-13

[1] Includes sampling 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 2012 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 2012, 10,801 fruit and vegetable samples were analyzed, of which 7,715 were fresh product and 3,086 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 G).

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 - Peaches	406	0			0.012 ^	0.09
Onions	279	0			0.012 ^	0.01
Plums	697	0			0.012 ^	0.09
Snap Peas (X-3)	372	3	0.8	0.020 ^	0.012 ^	0.01
Summer Squash	94	0			0.012 ^	0.01
Winter Squash	742	0			0.012 ^	0.01
TOTAL	**2,590**	**3**				
Acephate (insecticide)						
Apple Juice	396	0			0.030 ^	0.02
Avocado	372	0			0.030 ^	0.02
Baby Food - Applesauce	396	0			0.010 ^	0.02
Baby Food - Peaches	777	0			0.006 - 0.074	0.02
Baby Food - Peas	395	0			0.030 ^	0.02
Bananas	559	0			0.074 ^	0.02
Cantaloupe	372	0			0.010 ^	0.02
Cauliflower	705	6	0.9	0.006 - 0.026	0.005 ^	2.0
Mushrooms	744	0			0.030 ^	0.02
Onions	558	0			0.006 - 0.030	0.02
Orange Juice	330	0			0.030 ^	0.02
Papaya	366	0			0.12 ^	0.02
Plums	697	1	0.1	0.010 ^	0.006 ^	0.02
Snap Peas (X-2)	743	4	0.5	0.005 - 0.064	0.005 - 0.006	0.02
Summer Squash (X-2)	186	2	1.1	0.043 - 0.051	0.006 - 0.030	0.02
Sweet Bell Peppers	186	8	4.3	0.10 - 1.2	0.075 ^	4.0
Tangerines	709	0			0.010 ^	0.02
Winter Squash	742	1	0.1	0.010 ^	0.006 ^	0.02
TOTAL	**9,233**	**22**				
Acetamiprid (insecticide)						
Apple Juice	396	77	19.4	0.003 - 0.040	0.003 ^	1.0
Avocado	372	0			0.045 ^	0.01
Baby Food - Applesauce	396	70	17.7	0.010 - 0.050	0.010 ^	1.0
Baby Food - Peaches	777	279	35.9	0.002 - 0.009	0.002 - 0.003	1.20
Baby Food - Peas	395	0			0.020 ^	0.40
Bananas	559	0			0.002 ^	0.01
Cantaloupe	372	2	0.5	0.012 - 0.016	0.010 ^	0.50
Cauliflower	737	3	0.4	0.002 ^	0.001 ^	1.20
Cherry Tomatoes	744	37	5	0.003 - 0.050	0.002 ^	0.20
Mushrooms	744	0			0.003 ^	0.01
Onions	558	0			0.002 - 0.040	0.02
Orange Juice	330	0			0.003 ^	0.50
Plums	697	5	0.7	0.008 - 0.014	0.002 ^	0.20
Snap Peas	743	9	1.2	0.003 - 0.25	0.001 - 0.002	0.60
Summer Squash	186	3	1.6	0.003 - 0.036	0.002 - 0.020	0.50
Sweet Bell Peppers	186	33	17.7	0.003 - 0.20	0.002 ^	0.20
Tangerines	709	12	1.7	0.010 - 0.070	0.010 ^	0.50
Winter Squash	742	17	2.3	0.003 - 0.023	0.002 ^	0.50
TOTAL	**9,643**	**547**				
Acetochlor (herbicide)						
Baby Food - Peas	395	0			0.020 ^	NT
TOTAL	**395**	**0**				
Acibenzolar S methyl (plant activator)						
Apple Juice	396	0			0.020 ^	0.05
Cauliflower	737	0			0.004 - 0.012	1.0
Cherry Tomatoes	744	0			0.007 ^	1.0
Mushrooms	744	0			0.020 ^	NT
Onions	279	0			0.10 ^	0.1
Orange Juice	330	0			0.020 ^	NT
Snap Peas	371	0			0.004 ^	NT
Summer Squash	92	0			0.10 ^	2.0
TOTAL	**3,693**	**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
Acrinathrin (insecticide, acaricide)						
Apple Juice	396	0			0.010 ^	NT
TOTAL	**396**	**0**				
Alachlor (herbicide)						
Cauliflower	737	0			0.005 ^	NT
Snap Peas	371	0			0.002 ^	NT
TOTAL	**1,108**	**0**				
Aldicarb (insecticide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.020	NT
Bananas	559	0			0.020 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 - 0.006	NT
Mushrooms	744	0			0.003 - 0.010	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.003 ^	0.3
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.020 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,761**	**0**				
Aldicarb sulfone (metabolite of Aldicarb)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.025	NT
Bananas	559	0			0.025 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.003 - 0.020	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.003 ^	0.3
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.003 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.025 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,761**	**0**				
Aldicarb sulfoxide (metabolite of Aldicarb)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.025	NT
Bananas	559	0			0.025 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 - 0.006	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.003 ^	0.3
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.002 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.025 ^	NT
Tangerines (V-1)	709	1	0.1	0.015 ^	0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,761**	**1**				
Allethrin (insecticide)						
Apple Juice	396	0			0.025 ^	EX
Avocado	372	0			0.009 ^	EX
Baby Food - Applesauce	396	0			0.020 ^	EX

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 - Carrots	792	0			0.062 ^	EX
Baby Food - Peaches	777	0			0.012 - 0.080	EX
Baby Food - Peas	395	0			0.10 ^	EX
Bananas	559	0			0.080 ^	EX
Cantaloupe	372	0			0.040 ^	EX
Cherry Tomatoes	744	0			0.014 ^	EX
Mushrooms	744	0			0.025 - 0.10	EX
Onions	558	0			0.012 - 0.025	EX
Orange Juice	330	0			0.025 - 0.10	EX
Papaya	366	0			0.016 ^	EX
Plums	697	0			0.012 ^	EX
Snap Peas	372	0			0.012 ^	EX
Summer Squash	186	0			0.012 - 0.10	EX
Sweet Bell Peppers	186	0			0.016 ^	EX
Tangerines	689	0			0.040 ^	EX
Winter Squash	742	0			0.012 ^	EX
TOTAL	**9,673**	**0**				
Ametoctradin (fungicide)						
Summer Squash	92	0			0.005 ^	3.0
TOTAL	**92**	**0**				
Ametryn (herbicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.005 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Onions	279	0			0.005 ^	NT
Plums	697	0			0.005 ^	NT
Snap Peas	372	0			0.005 ^	NT
Summer Squash	94	0			0.005 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.005 ^	NT
TOTAL	**4,067**	**0**				
Atrazine (herbicide)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 - 0.006	NT
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.002 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,645**	**0**				
Avermectin (insecticide, acaricide)						
Avocado	372	0			0.030 ^	0.020
Cherry Tomatoes	744	0			0.028 ^	0.020
TOTAL	**1,116**	**0**				
Azinphos (insecticide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,590**	**0**				
Azinphos methyl (insecticide)						
Apple Juice	396	0			0.003 ^	1.5
Avocado	372	0			0.045 ^	NT
Baby Food - Applesauce	396	0			0.004 - 0.020	1.5

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 - Carrots	792	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.004	2.0
Baby Food - Peas	395	0			0.090 ^	NT
Bananas	559	0			0.004 ^	NT
Cantaloupe	290	0			0.040 ^	NT
Cauliflower	737	0			0.012 ^	NT
Cherry Tomatoes	744	0			0.009 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	542	0			0.003 - 0.15	NT
Orange Juice	330	0			0.003 ^	NT
Papaya	366	0			0.064 ^	NT
Plums	697	4	0.6	0.005 ^	0.003 ^	2.0
Snap Peas	743	0			0.003 - 0.012	NT
Summer Squash	186	0			0.003 - 0.090	NT
Sweet Bell Peppers	186	0			0.004 ^	NT
Tangerines	325	0			0.040 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**10,319**	**4**				
Azinphos methyl oxygen analog (metabolite of Azinphos methyl)						
Apple Juice	396	0			0.010 ^	1.5
Avocado	372	0			0.030 ^	NT
Baby Food - Carrots	792	0			0.008 ^	NT
Baby Food - Peaches	777	0			0.005 - 0.006	2.0
Baby Food - Peas	395	0			0.015 ^	NT
Bananas	559	0			0.005 ^	NT
Cherry Tomatoes (V-3)	744	3	0.4	0.010 ^	0.006 ^	NT
Mushrooms	744	0			0.010 ^	NT
Onions	558	0			0.006 - 0.030	NT
Orange Juice	330	0			0.010 ^	NT
Papaya	366	0			0.010 ^	NT
Plums	697	0			0.006 ^	2.0
Snap Peas	372	0			0.006 ^	NT
Summer Squash	186	0			0.006 - 0.015	NT
Sweet Bell Peppers	186	0			0.005 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**8,216**	**3**				
Azoxystrobin (fungicide)						
Apple Juice	396	0			0.003 ^	NT
Avocado	372	0			0.002 ^	2.0
Baby Food - Applesauce	396	0			0.002 ^	NT
Baby Food - Carrots	792	1	0.1	0.005 ^	0.003 ^	0.5
Baby Food - Peaches	777	0			0.002 - 0.005	1.5
Baby Food - Peas	395	0			0.005 ^	0.5
Bananas	559	135	24.2	0.005 - 0.038	0.005 ^	2.0
Cantaloupe	372	1	0.3	0.002 ^	0.002 ^	0.3
Cauliflower	737	0			0.003 ^	3.0
Cherry Tomatoes	744	106	14.2	0.003 - 0.15	0.002 ^	0.2
Mushrooms	744	0			0.003 ^	NT
Onions	558	0			0.002 - 0.005	1.0
Orange Juice	330	0			0.003 ^	10.0
Papaya	366	14	3.8	0.002 - 0.030	0.002 ^	2.0
Plums	697	1	0.1	0.003 ^	0.002 ^	1.5
Snap Peas	743	97	13.1	0.002 - 0.41	0.001 - 0.002	3.0
Summer Squash	186	3	1.6	0.009 - 0.012	0.002 - 0.005	0.3
Sweet Bell Peppers	186	23	12.4	0.005 - 0.078	0.005 ^	2.0
Tangerines	709	7	1	0.002 - 0.013	0.002 ^	10.0
Winter Squash	742	5	0.7	0.003 - 0.013	0.002 ^	0.3
TOTAL	**10,801**	**393**				
Bendiocarb (insecticide)						
Apple Juice	396	0			0.003 ^	NT
Avocado	372	0			0.030 ^	NT
Baby Food - Applesauce	396	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.009	NT
Baby Food - Peas	395	0			0.015 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Bananas	559	0			0.009 ^	NT
Cantaloupe	372	0			0.005 ^	NT
Cauliflower	675	0			0.015 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.003 ^	NT
Papaya	366	0			0.002 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	728	0			0.003 - 0.005	NT
Summer Squash	186	0			0.003 - 0.015	NT
Sweet Bell Peppers	186	0			0.009 ^	NT
Tangerines	709	0			0.005 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**8,909**	**0**				
Benfluralin (herbicide)						
Apple Juice	396	0			0.010 ^	NT
Mushrooms	744	0			0.010 ^	NT
Orange Juice	330	0			0.010 ^	NT
TOTAL	**1,470**	**0**				
Benoxacor (herbicide safener)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Carrots	792	0			0.030 ^	0.01
Baby Food - Peaches	777	0			0.006 - 0.012	NT
Baby Food - Peas	395	0			0.030 ^	0.01
Bananas	559	0			0.012 ^	NT
Cauliflower	737	0			0.003 ^	0.01
Cherry Tomatoes	744	0			0.029 ^	0.01
Mushrooms	744	0			0.010 ^	NT
Onions	558	0			0.006 - 0.060	0.01
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	0.01
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.005 ^	0.01
Winter Squash	742	0			0.006 ^	0.01
TOTAL	**8,494**	**0**				
Bensulide (herbicide)						
Apple Juice	396	0			0.004 ^	NT
Baby Food - Carrots	792	0			0.004 ^	0.10
Baby Food - Peaches	406	0			0.002 ^	NT
Cherry Tomatoes	744	0			0.003 ^	0.10
Mushrooms	744	0			0.004 ^	NT
Onions	558	0			0.002 - 0.005	0.10
Orange Juice	330	0			0.004 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Summer Squash	186	0			0.002 - 0.005	0.15
Winter Squash	742	0			0.002 ^	0.15
TOTAL	**5,967**	**0**				
Bensulide oxygen analog (insecticide metabolite)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Carrots	792	0			0.002 ^	0.10
Cherry Tomatoes	744	0			0.004 ^	0.10
Mushrooms	744	0			0.002 ^	NT
Orange Juice	330	0			0.002 ^	NT
Summer Squash	92	0			0.005 ^	0.15
TOTAL	**3,098**	**0**				
Bentazon (herbicide)						
Baby Food - Peaches	371	0			0.007 ^	NT
Baby Food - Peas	395	0			0.50 ^	3.0
Bananas	559	0			0.007 ^	NT
Cauliflower	737	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
Snap Peas	371	0			0.001 ^	3.0
Sweet Bell Peppers	186	0			0.007 ^	NT
TOTAL	**2,619**	**0**				
Benthiavalicarb isopropyl (fungicide)						
Baby Food - Peaches	371	0			0.001 ^	NT
Bananas	559	0			0.001 ^	NT
Cherry Tomatoes	744	0			0.033 ^	0.45
Sweet Bell Peppers	186	0			0.001 ^	NT
TOTAL	**1,860**	**0**				
Bifenazate (acaricide)						
Baby Food - Peaches	777	50	6.4	0.005 - 0.011	0.003 - 0.009	2.5
Cherry Tomatoes	743	11	1.5	0.005 - 0.24	0.003 ^	2.0
Onions	279	0			0.003 ^	NT
Plums	697	4	0.6	0.005 - 0.010	0.003 ^	0.20
Snap Peas	372	2	0.5	0.005 - 0.061	0.003 ^	6.0
Summer Squash	94	0			0.003 ^	0.75
Sweet Bell Peppers	186	0			0.009 ^	2.0
Winter Squash	742	0			0.003 ^	0.75
TOTAL	**3,890**	**67**				
Bifenthrin (insecticide)						
Apple Juice	396	0			0.005 ^	0.5
Avocado	226	0			0.003 ^	0.05
Baby Food - Applesauce	396	0			0.001 ^	0.5
Baby Food - Carrots	792	0			0.005 ^	0.10
Baby Food - Peaches	777	0			0.003 - 0.008	0.5
Baby Food - Peas	395	0			0.020 ^	0.05
Bananas	559	0			0.008 ^	0.1
Cantaloupe	372	0			0.010 ^	0.4
Cauliflower	737	0			0.005 ^	0.6
Cherry Tomatoes (X-4)	744	183	24.6	0.007 - 0.35	0.004 ^	0.15
Mushrooms	744	0			0.005 ^	0.05
Onions	558	0			0.003 - 0.025	0.05
Orange Juice	330	0			0.005 ^	0.05
Papaya	366	0			0.030 ^	0.05
Plums	697	0			0.003 ^	0.05
Snap Peas	743	10	1.3	0.005 - 0.059	0.002 - 0.003	0.6
Summer Squash	186	8	4.3	0.005 - 0.049	0.003 - 0.020	0.4
Sweet Bell Peppers	186	22	11.8	0.005 - 0.12	0.002 ^	0.5
Tangerines	709	0			0.010 ^	0.05
Winter Squash	742	111	15	0.005 - 0.049	0.003 ^	0.4
TOTAL	**10,655**	**334**				
Bitertanol (fungicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**1,477**	**0**				
Boscalid (fungicide)						
Apple Juice	396	2	0.5	0.004 - 0.007	0.003 ^	3.0
Avocado	372	0			0.030 ^	1.5
Baby Food - Applesauce	396	11	2.8	0.011 - 0.019	0.010 ^	3.0
Baby Food - Carrots	792	3	0.4	0.010 ^	0.006 ^	1.0
Baby Food - Peaches	777	90	11.6	0.005 - 0.026	0.003 - 0.013	3.5
Baby Food - Peas	395	0			0.010 ^	0.6
Bananas	559	0			0.013 ^	0.40
Cantaloupe	372	0			0.010 ^	1.6
Cherry Tomatoes	744	160	21.5	0.015 - 0.31	0.009 ^	1.2
Mushrooms	744	0			0.003 ^	NT
Onions	558	39	7	0.005 - 0.062	0.003 - 0.025	3.0
Orange Juice	330	0			0.003 ^	1.6
Papaya	366	29	7.9	0.020 - 0.075	0.020 ^	1.5
Plums	697	15	2.2	0.005 - 0.037	0.003 ^	3.5
Snap Peas	372	12	3.2	0.005 - 0.088	0.003 ^	1.6

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	186	3	1.6	0.005 - 0.057	0.003 - 0.015	1.6
Sweet Bell Peppers	186	36	19.4	0.021 - 0.21	0.020 ^	1.2
Tangerines	709	0			0.010 ^	1.6
Winter Squash	742	27	3.6	0.005 - 0.019	0.003 ^	1.6
TOTAL	**9,693**	**427**				
Bromacil (herbicide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Peaches	777	0			0.005 - 0.009	NT
Bananas	559	0			0.005 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.009 ^	NT
Orange Juice	330	0			0.003 ^	0.1
Plums	697	0			0.009 ^	NT
Snap Peas	372	0			0.009 ^	NT
Summer Squash	94	0			0.009 ^	NT
Winter Squash	742	0			0.009 ^	NT
TOTAL	**4,990**	**0**				
Bromopropylate (acaricide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
TOTAL	**396**	**0**				
Bupirimate (fungicide)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
TOTAL	**792**	**0**				
Buprofezin (insecticide)						
Apple Juice	396	0			0.001 ^	4.0
Avocado	372	0			0.030 ^	0.30
Baby Food - Applesauce	396	0			0.010 ^	4.0
Baby Food - Peaches	777	0			0.001 - 0.003	9.0
Bananas	559	1	0.2	0.005 ^	0.001 ^	0.20
Cantaloupe	372	0			0.010 ^	0.50
Cauliflower	737	0			0.001 ^	12.0
Cherry Tomatoes	744	55	7.4	0.006 - 0.16	0.003 ^	1.3
Mushrooms	744	0			0.001 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.001 ^	2.5
Papaya	366	0			0.002 ^	0.90
Plums	697	14	2	0.005 - 0.041	0.003 ^	1.9
Snap Peas (V-2)	743	2	0.3	0.010 - 0.019	0.001 - 0.003	NT
Summer Squash	186	0			0.003 - 0.005	0.50
Sweet Bell Peppers	186	3	1.6	0.004 - 0.014	0.001 ^	1.3
Tangerines	709	0			0.010 ^	2.5
Winter Squash	742	1	0.1	0.005 ^	0.003 ^	0.50
TOTAL	**9,335**	**76**				
Butocarboxim (insecticide, acaricide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
TOTAL	**396**	**0**				
Captan (fungicide) (parent of THPI)						
Avocado	372	0			0.009 ^	NT
Baby Food - Applesauce	308	0			0.004 - 0.020	25.0
Baby Food - Carrots	792	0			0.099 ^	0.05
Baby Food - Peaches	371	0			0.19 ^	15.0
Bananas	559	0			0.19 ^	NT
Sweet Bell Peppers	186	0			0.19 ^	0.05
TOTAL	**2,588**	**0**				
Carbaryl (insecticide)						
Apple Juice	396	13	3.3	0.005 - 0.030	0.003 ^	12
Avocado	372	0			0.015 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	12
Baby Food - Carrots	792	0			0.002 ^	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 - Peaches	777	0			0.003 - 0.005	10
Baby Food - Peas	395	0			0.020 ^	10
Bananas	559	0			0.005 ^	5.0
Cantaloupe	372	2	0.5	0.014 - 0.039	0.010 ^	3.0
Cauliflower	737	0			0.001 ^	10
Cherry Tomatoes	744	1	0.1	0.013 ^	0.008 ^	5.0
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	37	11.2	0.003 - 0.007	0.003 ^	10
Plums	697	0			0.003 ^	10
Snap Peas	743	1	0.1	0.002 ^	0.001 - 0.003	10
Summer Squash	186	0			0.003 - 0.020	3.0
Sweet Bell Peppers	186	8	4.3	0.005 - 0.87	0.005 ^	5.0
Tangerines	709	3	0.4	0.014 - 0.017	0.010 ^	10
Winter Squash	742	0			0.003 ^	3.0
TOTAL	**10,156**	**65**				
Carbendazim - MBC (fungicide) (metabolite of Benomyl and Thiophanate Methyl)						
Apple Juice	396	130	32.8	0.001 - 0.025	0.001 ^	2.0
Avocado	372	0			0.006 ^	NT
Baby Food - Applesauce	396	66	16.7	0.010 - 0.065	0.010 ^	2.0
Baby Food - Peaches	777	12	1.5	0.003 - 0.009	0.002 - 0.005	3.0
Bananas	559	0			0.005 ^	2.0
Cantaloupe	372	9	2.4	0.010 - 0.060	0.010 ^	1.0
Cauliflower	737	0			0.001 ^	NT
Mushrooms (V-35)	744	35	4.7	0.001 - 0.70	0.001 ^	NT
Onions	279	0			0.002 ^	0.5
Orange Juice (V-26)	330	26	7.9	0.002 - 0.011	0.001 ^	NT
Plums	697	3	0.4	0.003 ^	0.002 ^	0.5
Snap Peas (V-172)	743	172	23.1	0.002 - 3.4	0.001 - 0.002	NT
Summer Squash	94	3	3.2	0.003 - 0.006	0.002 ^	1.0
Sweet Bell Peppers (V-1)	186	1	0.5	0.011 ^	0.005 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	15	2	0.003 - 0.039	0.002 ^	1.0
TOTAL	**8,133**	**472**				
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)						
Apple Juice	396	0			0.003 ^	NT
Avocado	372	0			0.006 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Carrots	792	0			0.002 ^	NT
Baby Food - Peaches	777	0			0.003 ^	NT
Baby Food - Peas	395	0			0.005 ^	NT
Bananas	559	0			0.003 ^	0.1
Cantaloupe	372	0			0.010 ^	0.4
Cauliflower	737	0			0.001 ^	NT
Cherry Tomatoes	744	0			0.002 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	558	0			0.003 - 0.005	NT
Orange Juice	330	0			0.003 ^	NT
Papaya	366	0			0.002 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	186	0			0.003 - 0.005	0.8
Sweet Bell Peppers	186	0			0.003 ^	1
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	0.8
TOTAL	**10,801**	**0**				
Carbophenothion (insecticide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.002 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**3,698**	**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
Carbophenothion methyl (insecticide)						
Baby Food - Peaches	120	0			0.006 ^	NT
Onions	124	0			0.006 ^	NT
Plums	233	0			0.006 ^	NT
Snap Peas	93	0			0.006 ^	NT
Winter Squash	155	0			0.006 ^	NT
TOTAL	**725**	**0**				
Carboxin (fungicide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	558	0			0.003 - 0.075	0.2
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,869**	**0**				
Carfentrazone (herbicide)						
Apple Juice	396	0			0.005 ^	0.10
Avocado	372	0			0.030 ^	0.10
Baby Food - Applesauce	396	0			0.001 ^	0.10
Baby Food - Carrots	792	0			0.015 ^	0.10
Baby Food - Peaches	777	0			0.002 - 0.016	0.10
Baby Food - Peas	395	0			0.005 ^	0.10
Bananas	559	0			0.016 ^	0.20
Cantaloupe	372	0			0.010 ^	0.10
Cauliflower	737	0			0.015 ^	0.10
Cherry Tomatoes	744	0			0.023 ^	0.10
Mushrooms	744	0			0.005 ^	NT
Onions	558	0			0.002 - 0.010	0.10
Orange Juice	330	0			0.005 ^	0.10
Papaya	366	0			0.008 ^	0.10
Plums	697	0			0.002 ^	0.10
Snap Peas	743	0			0.002 - 0.005	0.10
Summer Squash	186	0			0.002 - 0.005	0.10
Sweet Bell Peppers	186	0			0.016 ^	0.10
Tangerines	709	0			0.010 ^	0.10
Winter Squash	742	0			0.002 ^	0.10
TOTAL	**10,801**	**0**				
Chlorantraniliprole (insecticide)						
Apple Juice	396	0			0.010 ^	1.2
Avocado	372	0			0.015 ^	4.0
Baby Food - Applesauce	396	0			0.020 ^	1.2
Baby Food - Carrots	792	0			0.004 ^	0.30
Baby Food - Peaches	406	49	12.1	0.010 ^	0.006 ^	4.0
Baby Food - Peas	395	0			0.005 ^	2.0
Cantaloupe	372	0			0.020 ^	0.5
Cauliflower	737	0			0.002 ^	4.0
Cherry Tomatoes	742	136	18.3	0.003 - 0.044	0.002 ^	1.4
Mushrooms	744	0			0.010 ^	NT
Onions	558	0			0.006 - 0.020	0.30
Orange Juice	330	0			0.010 ^	1.4
Papaya	366	0			0.006 ^	2.0
Plums	697	36	5.2	0.008 - 0.026	0.006 ^	4.0
Snap Peas	743	18	2.4	0.003 - 0.23	0.002 - 0.006	2.0
Summer Squash	186	0			0.005 - 0.006	0.5
Winter Squash	742	0			0.006 ^	0.5
TOTAL	**8,974**	**239**				
Chlorethoxyfos (insecticide)						
Baby Food - Peaches	406	0			0.009 ^	NT
Onions	279	0			0.009 ^	NT
Plums	697	0			0.009 ^	NT
Snap Peas	372	0			0.009 ^	NT
Summer Squash	94	0			0.009 ^	NT
Winter Squash	742	0			0.009 ^	NT
TOTAL	**2,590**	**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
Chlorfenapyr (insecticide)						
Apple Juice	396	0			0.015 ^	0.01
Avocado	372	0			0.003 ^	0.01
Baby Food - Applesauce	396	0			0.005 ^	0.01
Baby Food - Peaches	371	0			0.040 ^	0.01
Baby Food - Peas	395	0			0.050 ^	0.01
Bananas	559	0			0.040 ^	0.01
Cantaloupe	372	0			0.010 ^	0.01
Cauliflower	737	0			0.008 ^	0.01
Cherry Tomatoes	744	11	1.5	0.067 - 0.24	0.040 ^	1.0
Mushrooms	744	0			0.006 - 0.015	0.01
Onions	279	0			0.10 ^	0.01
Orange Juice	330	0			0.006 - 0.015	0.01
Papaya	366	0			0.080 ^	0.01
Snap Peas	371	0			0.002 ^	0.01
Summer Squash	92	0			0.050 ^	0.01
Sweet Bell Peppers	186	10	5.4	0.026 - 0.099	0.025 ^	1.0
Tangerines	709	0			0.010 ^	0.01
TOTAL	**7,419**	**21**				
Chlorfenvinphos (insecticide)						
Baby Food - Peaches	406	0			0.006 ^	NT
Cauliflower	737	0			0.004 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.004 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**3,698**	**0**				
Chlorothalonil (fungicide)						
Apple Juice	396	0			0.020 ^	NT
Avocado	372	0			0.008 ^	NT
Baby Food - Applesauce	396	0			0.001 - 0.002	NT
Baby Food - Carrots	81	0			0.062 - 0.21	1
Cantaloupe	331	0			0.010 ^	5.0
Mushrooms	744	1	0.1	0.020 ^	0.020 ^	1.0
Orange Juice	330	0			0.020 ^	NT
Papaya	366	0			0.18 ^	15
Tangerines	629	0			0.010 ^	NT
TOTAL	**3,645**	**1**				
Chlorpropham (herbicide, growth regulator)						
Apple Juice	396	0			0.020 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.005 - 0.020	NT
Bananas	559	0			0.020 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower (V-2)	737	2	0.3	0.005 - 0.010	0.003 ^	NT
Mushrooms	744	0			0.010 - 0.020	NT
Onions	279	0			0.005 - 0.006	NT
Orange Juice	330	0			0.010 - 0.020	NT
Plums (V-6)	697	6	0.9	0.008 - 0.059	0.005 - 0.006	NT
Snap Peas (V-10)	743	10	1.3	0.002 - 0.006	0.001 - 0.006	NT
Summer Squash	186	0			0.006 - 0.20	NT
Tangerines	686	0			0.010 ^	NT
Winter Squash (V-8)	742	8	1.1	0.008 - 0.025	0.005 - 0.006	NT
TOTAL	**7,644**	**26**				
Chlorpyrifos (insecticide)						
Apple Juice	396	0			0.005 ^	0.1
Avocado	372	0			0.003 ^	0.1
Baby Food - Applesauce	396	0			0.001 ^	0.1
Baby Food - Carrots	792	0			0.006 ^	0.1
Baby Food - Peaches	777	4	0.5	0.005 - 0.007	0.005 - 0.006	0.1
Baby Food - Peas	395	0			0.15 ^	0.1
Bananas	559	1	0.2	0.005 ^	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	372	0			0.010 ^	0.1
Cauliflower	737	0			0.003 ^	1.0
Cherry Tomatoes	744	6	0.8	0.005 - 0.030	0.003 ^	0.1
Mushrooms	744	0			0.005 - 0.025	0.1
Onions	558	0			0.006 - 0.025	0.5
Orange Juice	330	0			0.005 - 0.025	1.0
Papaya	366	0			0.020 ^	0.1
Plums	697	11	1.6	0.010 - 0.029	0.006 ^	0.1
Snap Peas	743	20	2.7	0.002 - 0.020	0.001 - 0.006	0.1
Summer Squash	186	1	0.5	0.020 ^	0.006 - 0.075	0.1
Sweet Bell Peppers	186	24	12.9	0.017 - 0.36	0.011 ^	1.0
Tangerines	709	4	0.6	0.013 - 0.031	0.010 ^	1.0
Winter Squash	742	4	0.5	0.010 ^	0.006 ^	0.1
TOTAL	**10,801**	**75**				
Chlorpyrifos oxygen analog (metabolite of Chlorpyrifos)						
Apple Juice	396	0			0.002 ^	0.1
Baby Food - Carrots	792	0			0.002 ^	0.1
Baby Food - Peaches	777	0			0.006 - 0.009	0.1
Baby Food - Peas	395	0			0.005 ^	0.1
Bananas	559	0			0.009 ^	0.1
Cauliflower	737	0			0.001 ^	1.0
Mushrooms	744	0			0.002 ^	0.1
Onions	558	0			0.005 - 0.006	0.5
Orange Juice	330	0			0.002 ^	1.0
Papaya	366	0			0.002 ^	0.1
Plums	697	0			0.006 ^	0.1
Snap Peas	743	0			0.001 - 0.006	0.1
Summer Squash	186	0			0.005 - 0.006	0.1
Sweet Bell Peppers	186	0			0.009 ^	1.0
Winter Squash	742	0			0.006 ^	0.1
TOTAL	**8,208**	**0**				
Clethodim (herbicide)						
Baby Food - Carrots	792	0			0.001 ^	1.0
Baby Food - Peaches	304	0			0.024 ^	0.20
Baby Food - Peas	395	0			0.20 ^	3.5
Cauliflower	737	0			0.002 - 0.008	3.0
Onions	449	0			0.024 - 0.20	0.20
Plums	447	0			0.024 ^	NT
Snap Peas	650	0			0.002 - 0.024	3.5
Summer Squash	140	0			0.024 - 0.20	0.50
Winter Squash	525	0			0.024 ^	0.50
TOTAL	**4,439**	**0**				
Clethodim 5-OH sulfone (herbicide metabolite)						
Baby Food - Peaches	203	0			0.012 ^	0.20
Plums	365	0			0.012 ^	NT
TOTAL	**568**	**0**				
Clethodim sulfone (herbicide metabolite)						
Baby Food - Peaches	304	0			0.003 ^	0.20
Plums	447	0			0.003 ^	NT
Snap Peas	279	1	0.4	0.037 ^	0.003 ^	3.5
TOTAL	**1,030**	**1**				
Clethodim sulfoxide (herbicide metabolite)						
Baby Food - Peaches	304	0			0.003 ^	0.20
Plums	447	0			0.003 ^	NT
Snap Peas	279	1	0.4	0.014 ^	0.003 ^	3.5
Summer Squash	63	0			0.003 ^	0.50
Winter Squash	525	0			0.003 ^	0.50
TOTAL	**1,618**	**1**				
Clofentezine (insecticide)						
Apple Juice	264	0			0.010 ^	0.5
Baby Food - Peaches	406	0			0.012 ^	1.0
Onions	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
Plums	697	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Summer Squash	94	0			0.012 ^	NT
Winter Squash	742	0			0.012 ^	NT
TOTAL	**2,854**	**0**				
Clomazone (herbicide)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.067	NT
Baby Food - Peas	395	0			0.050 ^	0.05
Bananas	559	0			0.067 ^	NT
Cantaloupe	372	0			0.010 ^	0.05
Cauliflower	737	0			0.008 ^	NT
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.005 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.002 - 0.003	0.05
Summer Squash	186	0			0.003 - 0.050	0.1
Sweet Bell Peppers	186	0			0.005 ^	0.05
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	0.1
TOTAL	**8,248**	**0**				
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)						
Apple Juice	396	0			0.010 ^	1.0
Avocado	372	0			0.003 ^	0.40
Baby Food - Applesauce	396	0			0.010 ^	1.0
Baby Food - Carrots	792	0			0.016 ^	0.8
Baby Food - Peaches	777	0			0.003 - 0.035	0.80
Baby Food - Peas	395	0			0.060 ^	0.02
Bananas	559	0			0.035 ^	0.02
Cantaloupe	372	0			0.010 ^	0.2
Cherry Tomatoes	743	102	13.7	0.003 - 0.25	0.002 ^	0.25
Mushrooms	744	0			0.010 ^	0.02
Onions	558	0			0.003 - 0.090	0.45
Orange Juice	330	0			0.010 ^	0.40
Papaya	366	0			0.040 ^	0.40
Plums	697	1	0.1	0.005 ^	0.003 ^	0.5
Snap Peas	372	0			0.003 ^	0.02
Summer Squash	186	4	2.2	0.005 - 0.010	0.003 - 0.050	0.2
Sweet Bell Peppers	186	5	2.7	0.039 - 0.21	0.035 ^	0.25
Tangerines	709	0			0.010 ^	0.40
Winter Squash	742	0			0.003 ^	0.2
TOTAL	**9,692**	**112**				
Coumaphos (insecticide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.002 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	691	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**5,157**	**0**				
Coumaphos oxygen analog (metabolite of Coumaphos)						
Cauliflower	737	0			0.008 ^	NT
Snap Peas	371	0			0.008 ^	NT
TOTAL	**1,108**	**0**				
Crotoxyphos (insecticide, acaricide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	558	0			0.003 - 0.10	NT
Plums	697	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
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,869**	**0**				
Crufomate (insecticide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,590**	**0**				
Cyazofamid (fungicide)						
Baby Food - Carrots	792	0			0.002 ^	0.09
Baby Food - Peaches	777	0			0.006 - 0.020	NT
Bananas	559	0			0.020 ^	NT
Cherry Tomatoes	744	28	3.8	0.017 - 0.17	0.010 ^	0.40
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	186	0			0.006 - 0.050	0.10
Sweet Bell Peppers	186	0			0.020 ^	0.40
Winter Squash	742	4	0.5	0.010 - 0.033	0.006 ^	0.10
TOTAL	**5,334**	**32**				
Cyfluthrin (insecticide)						
Apple Juice	396	0			0.004 ^	0.5
Avocado	332	0			0.006 ^	0.05
Baby Food - Applesauce	396	0			0.001 ^	0.5
Baby Food - Carrots	792	0			0.050 ^	0.20
Baby Food - Peaches	777	0			0.030 - 0.042	0.3
Baby Food - Peas	395	0			0.050 ^	0.25
Bananas	559	0			0.042 ^	0.05
Cantaloupe	372	0			0.010 ^	0.1
Cauliflower	737	0			0.008 - 0.025	2.5
Cherry Tomatoes	744	1	0.1	0.098 ^	0.059 ^	0.20
Mushrooms	744	0			0.002 - 0.004	0.05
Onions	558	0			0.030 - 0.20	0.05
Orange Juice	330	0			0.002 - 0.004	0.2
Papaya	366	0			0.15 ^	0.05
Plums	697	0			0.030 ^	0.3
Snap Peas	728	11	1.5	0.012 - 0.17	0.008 - 0.030	0.25
Summer Squash	186	0			0.030 - 0.10	0.1
Sweet Bell Peppers	186	1	0.5	0.040 ^	0.022 ^	0.50
Tangerines	709	0			0.010 ^	0.2
Winter Squash	711	0			0.030 ^	0.1
TOTAL	**10,715**	**13**				
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide)						
Apple Juice	396	0			0.005 ^	0.30
Avocado	352	0			0.003 ^	0.20
Baby Food - Applesauce	396	2	0.5	0.003 ^	0.002 ^	0.30
Baby Food - Carrots	792	0			0.015 ^	0.01
Baby Food - Peaches	777	67	8.6	0.012 - 0.021	0.012 ^	0.50
Baby Food - Peas	395	0			0.075 ^	0.01
Bananas	559	0			0.012 ^	0.01
Cantaloupe	372	0			0.015 ^	0.05
Cauliflower	737	0			0.010 ^	0.4
Mushrooms	744	0			0.001 - 0.005	0.01
Onions	558	0			0.024 - 0.13	0.1
Orange Juice	330	0			0.001 - 0.005	0.01
Papaya	366	0			0.060 ^	0.01
Plums	697	1	0.1	0.020 ^	0.012 ^	0.50
Snap Peas (X-1)	743	98	13.2	0.005 - 0.21	0.003 - 0.012	0.20
Summer Squash	186	0			0.012 - 0.075	0.05

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Sweet Bell Peppers	186	13	7	0.010 - 0.058	0.010 ^	0.20
Tangerines	709	0			0.015 ^	0.01
Winter Squash	742	0			0.012 ^	0.05
TOTAL	**10,037**	**181**				
Cyhalothrin, Lambda (includes gamma isomer)						
Cherry Tomatoes	744	11	1.5	0.027 - 0.074	0.016 ^	0.1
TOTAL	**744**	**11**				
Cymoxanil (fungicide)						
Apple Juice	396	0			0.002 - 0.005	NT
Baby Food - Carrots	792	0			0.025 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.020	NT
Bananas	559	0			0.020 ^	NT
Cherry Tomatoes	744	0			0.014 ^	0.2
Mushrooms	744	0			0.002 - 0.005	NT
Onions	558	0			0.006 - 0.050	0.05
Orange Juice	330	0			0.002 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	186	0			0.006 - 0.050	0.05
Sweet Bell Peppers	186	0			0.020 ^	0.2
Winter Squash	742	0			0.006 ^	0.05
TOTAL	**7,083**	**0**				
Cypermethrin (insecticide)						
Apple Juice	396	0			0.010 ^	2
Avocado	332	0			0.006 ^	0.05
Baby Food - Applesauce	396	0			0.002 ^	2
Baby Food - Carrots	792	0			0.050 ^	0.1
Baby Food - Peaches	777	0			0.024 - 0.069	1
Baby Food - Peas	395	0			0.080 ^	0.1
Bananas	559	0			0.069 ^	0.05
Cantaloupe	372	0			0.020 ^	0.2
Cauliflower	737	0			0.022 - 0.075	2.00
Cherry Tomatoes (X-2)	741	19	2.6	0.10 - 0.33	0.060 ^	0.2
Mushrooms	744	0			0.002 - 0.010	0.05
Onions	558	0			0.024 - 0.20	0.10
Orange Juice	330	0			0.002 - 0.010	0.35
Papaya	366	0			0.15 ^	0.50
Plums	697	0			0.024 ^	1
Snap Peas	743	65	8.7	0.038 - 0.46	0.023 - 0.075	0.5
Summer Squash	186	0			0.024 - 0.20	0.2
Sweet Bell Peppers	186	8	4.3	0.063 - 0.26	0.053 ^	0.2
Tangerines	709	0			0.020 ^	0.35
Winter Squash	742	0			0.024 ^	0.2
TOTAL	**10,758**	**92**				
Cyphenothrin (insecticide)						
Apple Juice	396	0			0.015 ^	NT
Baby Food - Carrots	792	0			0.030 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.029	NT
Baby Food - Peas	395	0			0.050 ^	NT
Bananas	559	0			0.029 ^	NT
Cherry Tomatoes	744	0			0.059 ^	NT
Mushrooms	744	0			0.006 - 0.015	NT
Onions	558	0			0.006 - 0.25	NT
Orange Juice	330	0			0.006 - 0.015	NT
Papaya	366	0			0.060 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	186	0			0.006 - 0.050	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Sweet Bell Peppers	186	0			0.040 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,844**	**0**				
Cyproconazole (fungicide)						
Apple Juice	396	0			0.010 ^	NT
Mushrooms	248	0			0.010 ^	NT
TOTAL	**644**	**0**				
Cyprodinil (fungicide)						
Apple Juice	396	0			0.005 ^	1.7
Avocado	372	0			0.015 ^	1.2
Baby Food - Applesauce	396	27	6.8	0.002 ^	0.001 - 0.005	1.7
Baby Food - Carrots	792	0			0.025 ^	0.75
Baby Food - Peaches	777	61	7.9	0.005 - 0.017	0.003 - 0.012	2.0
Bananas	559	0			0.012 ^	NT
Cantaloupe	372	0			0.010 ^	0.70
Cherry Tomatoes	744	7	0.9	0.007 - 0.090	0.004 ^	0.45
Mushrooms	744	0			0.005 ^	NT
Onions	558	0			0.003 - 0.055	0.60
Orange Juice	330	0			0.005 ^	NT
Papaya	366	0			0.050 ^	1.2
Plums	697	20	2.9	0.005 ^	0.003 ^	2.0
Snap Peas (V-1)	372	1	0.3	0.005 ^	0.003 ^	NT
Summer Squash	186	1	0.5	0.028 ^	0.003 - 0.055	0.70
Sweet Bell Peppers (V-1)	186	1	0.5	0.010 ^	0.004 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	4	0.5	0.005 ^	0.003 ^	0.70
TOTAL	**9,298**	**122**				
Cyromazine (insect growth regulator)						
Baby Food - Peaches	406	0			0.003 ^	NT
Cherry Tomatoes	742	9	1.2	0.005 - 0.015	0.003 - 0.010	0.5
Onions	558	0			0.003 - 0.080	0.2
Plums	697	0			0.003 ^	NT
Snap Peas (V-21)	743	21	2.8	0.004 - 2.3	0.002 - 0.008	NT
Summer Squash	186	10	5.4	0.005 - 0.029	0.003 - 0.16	1.0
Winter Squash	742	12	1.6	0.005 - 0.015	0.003 ^	1.0
TOTAL	**4,074**	**52**				
DCPA (herbicide)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.010	NT
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	1.0
Cauliflower	737	29	3.9	0.002 - 0.005	0.001 ^	5.0
Cherry Tomatoes	744	0			0.003 ^	1.0
Mushrooms	744	0			0.001 - 0.002	NT
Onions	558	0			0.002 - 0.025	1.0
Orange Juice	330	0			0.001 - 0.002	NT
Plums	697	0			0.002 ^	NT
Snap Peas (V-15)	743	15	2	0.002 - 0.004	0.001 - 0.002	NT
Summer Squash	186	0			0.002 - 0.025	1.0
Sweet Bell Peppers	186	0			0.005 ^	2.0
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	2	0.3	0.003 ^	0.002 ^	1.0
TOTAL	**8,876**	**46**				
DEF - Tribufos (herbicide, plant growth regulator)						
Baby Food - Peaches	406	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**2,590**	**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
Deltamethrin (includes parent Tralomethrin) (insecticide)						
Apple Juice	396	0			0.015 ^	0.2
Avocado	372	0			0.060 ^	0.05
Baby Food - Applesauce	396	0			0.002 ^	0.2
Baby Food - Carrots	792	0			0.024 ^	0.2
Baby Food - Peaches	777	0			0.012 - 0.12	0.05
Baby Food - Peas	395	0			0.050 ^	0.05
Bananas	559	0			0.12 ^	0.05
Cantaloupe	352	0			0.015 ^	0.2
Cauliflower	709	55	7.8	0.020 - 0.041	0.012 - 0.040	0.05
Cherry Tomatoes	744	26	3.5	0.025 - 0.085	0.015 ^	0.2
Mushrooms	744	0			0.009 - 0.015	0.05
Onions	558	0			0.012 - 0.075	0.1
Orange Juice	330	0			0.009 - 0.015	0.05
Papaya	348	0			0.080 ^	0.05
Plums	697	0			0.012 ^	0.05
Snap Peas (X-4)	743	17	2.3	0.020 - 0.11	0.012 - 0.080	0.05
Summer Squash	186	0			0.012 - 0.10	0.2
Sweet Bell Peppers	186	0			0.050 ^	0.3
Tangerines	709	0			0.015 ^	0.05
Winter Squash	742	0			0.012 ^	0.2
TOTAL	**10,735**	**98**				
Demeton-O (metabolite of the insecticide Demeton)						
Baby Food - Peaches	273	0			0.006 ^	NT
Onions	217	0			0.006 ^	NT
Plums	471	0			0.006 ^	NT
Snap Peas	248	0			0.006 ^	NT
Winter Squash	433	0			0.006 ^	NT
TOTAL	**1,642**	**0**				
Demeton-S (metabolite of Demeton)						
Baby Food - Peaches	406	0			0.006 - 0.009	NT
Onions	279	0			0.006 - 0.009	NT
Plums	697	0			0.006 - 0.009	NT
Snap Peas	372	0			0.006 - 0.009	NT
Summer Squash	94	0			0.009 ^	NT
Winter Squash	742	0			0.006 - 0.009	NT
TOTAL	**2,590**	**0**				
Demeton-S sulfone (metabolite of Demeton-S)						
Apple Juice	396	0			0.004 ^	NT
Baby Food - Peaches	406	0			0.002 ^	NT
Mushrooms	744	0			0.004 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.004 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**4,060**	**0**				
Dialifos (insecticide)						
Baby Food - Peaches	113	0			0.003 ^	NT
Onions	124	0			0.003 ^	NT
Plums	192	0			0.003 ^	NT
Snap Peas	62	0			0.003 ^	NT
Winter Squash	154	0			0.003 ^	NT
TOTAL	**645**	**0**				
Diazinon (insecticide)						
Apple Juice	396	0			0.005 ^	0.50
Avocado	372	0			0.015 ^	NT
Baby Food - Applesauce	396	0			0.002 ^	0.50
Baby Food - Carrots	792	0			0.001 ^	0.75
Baby Food - Peaches	777	0			0.002 - 0.010	0.20
Baby Food - Peas	395	0			0.20 ^	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
Bananas	559	0			0.010 ^	0.20
Cantaloupe	372	0			0.002 ^	0.75
Cauliflower	737	0			0.001 ^	0.70
Cherry Tomatoes	744	2	0.3	0.003 - 0.018	0.002 ^	0.75
Mushrooms	744	5	0.7	0.007 - 0.035	0.005 ^	0.75
Onions	558	0			0.002 - 0.045	0.75
Orange Juice	330	0			0.005 ^	NT
Plums	697	0			0.002 ^	0.20
Snap Peas	743	2	0.3	0.003 - 0.040	0.001 - 0.002	0.50
Summer Squash	186	0			0.002 - 0.20	0.50
Sweet Bell Peppers	186	1	0.5	0.042 ^	0.020 ^	0.5
Tangerines	709	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	0.75
TOTAL	**10,435**	**10**				
Diazinon oxygen analog (metabolite of Diazinon)						
Avocado	372	0			0.015 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	0.50
Baby Food - Carrots	792	0			0.002 ^	0.75
Baby Food - Peaches	777	0			0.003 - 0.008	0.20
Baby Food - Peas	395	0			0.030 ^	0.50
Bananas	559	0			0.008 ^	0.20
Cantaloupe	372	0			0.001 ^	0.75
Cauliflower	737	0			0.001 ^	0.70
Mushrooms	465	0			0.005 ^	0.75
Onions	558	0			0.003 - 0.010	0.75
Orange Juice	330	0			0.005 ^	NT
Plums	697	0			0.003 ^	0.20
Snap Peas	743	0			0.001 - 0.003	0.50
Summer Squash	186	0			0.003 - 0.060	0.50
Tangerines	709	0			0.001 ^	NT
Winter Squash	742	0			0.003 ^	0.75
TOTAL	**8,830**	**0**				
Dichlobenil (herbicide)						
Apple Juice	396	0			0.010 ^	0.5
Baby Food - Applesauce	396	0			0.001 ^	0.5
Baby Food - Peaches	777	0			0.003 - 0.007	0.15
Bananas	559	0			0.007 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	0.15
Snap Peas	743	0			0.002 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	691	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,483**	**0**				
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)						
Apple Juice	396	0			0.020 ^	0.5
Avocado	372	0			0.015 ^	0.5
Baby Food - Carrots	792	0			0.026 ^	0.5
Baby Food - Peaches	777	0			0.005 - 0.012	0.5
Baby Food - Peas	395	0			0.060 ^	0.5
Bananas	559	0			0.005 ^	0.5
Cantaloupe	372	0			0.010 ^	0.5
Cauliflower	356	0			0.020 ^	0.5
Cherry Tomatoes	744	0			0.002 ^	0.5
Mushrooms	744	0			0.020 ^	0.5
Onions	558	0			0.012 - 0.060	0.5
Orange Juice	330	0			0.020 ^	0.5
Papaya	366	0			0.032 ^	0.5
Plums	697	0			0.012 ^	0.5
Snap Peas	743	0			0.010 - 0.012	0.5
Summer Squash	186	0			0.012 - 0.060	0.5

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Sweet Bell Peppers	186	0			0.020 ^	0.5
Winter Squash	742	0			0.012 ^	0.5
TOTAL	**9,315**	**0**				
Dicloran (fungicide)						
Apple Juice	396	0			0.016 ^	NT
Baby Food - Applesauce	396	0			0.001 - 0.005	NT
Baby Food - Carrots	46	0			0.025 - 0.083	10
Baby Food - Peaches	777	0			0.006 - 0.020	20
Bananas	559	0			0.020 ^	NT
Cantaloupe	351	0			0.010 ^	NT
Cauliflower	723	0			0.008 ^	NT
Cherry Tomatoes	744	1	0.1	0.075 ^	0.045 ^	5
Mushrooms	744	0			0.005 - 0.016	NT
Onions	558	0			0.006 - 0.10	10
Orange Juice	330	0			0.005 - 0.016	NT
Plums	697	0			0.006 ^	15
Snap Peas	743	0			0.002 - 0.008	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.015 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**8,795**	**1**				
Dicofol (insecticide)						
Summer Squash	92	0			0.15 ^	2.0
TOTAL	**92**	**0**				
Dicofol o,p' (isomer of insecticide Dicofol)						
Avocado	372	0			0.009 ^	NT
Baby Food - Peaches	371	0			0.015 ^	5.0
Bananas	559	0			0.015 ^	NT
Cauliflower	737	0			0.002 ^	NT
Snap Peas	371	0			0.002 ^	NT
Sweet Bell Peppers	186	8	4.3	0.001 - 0.008	0.001 ^	2.0
TOTAL	**2,596**	**8**				
Dicofol p,p' (isomer of Dicofol)						
Apple Juice	396	0			0.010 ^	10.0
Avocado	372	0			0.003 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.024	5.0
Bananas	559	0			0.024 ^	NT
Cauliflower	737	0			0.001 ^	NT
Cherry Tomatoes	744	11	1.5	0.12 - 0.97	0.026 ^	2.0
Mushrooms	744	0			0.002 - 0.010	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.002 - 0.010	6.0
Plums	697	0			0.006 ^	5.0
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	2.0
Sweet Bell Peppers	186	8	4.3	0.004 - 0.042	0.002 ^	2.0
Winter Squash	742	0			0.006 ^	2.0
TOTAL	**7,400**	**19**				
Dicrotophos (insecticide)						
Baby Food - Peaches	406	0			0.002 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**3,698**	**0**				
Difenoconazole (fungicide)						
Apple Juice	396	0			0.010 ^	1.0
Baby Food - Applesauce	396	0			0.005 ^	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
Baby Food - Carrots	792	0			0.003 ^	0.50
Baby Food - Peaches	777	0			0.003 - 0.005	2.5
Bananas	559	0			0.005 ^	0.2
Cantaloupe	372	0			0.005 ^	0.70
Cauliflower	737	0			0.003 ^	1.9
Cherry Tomatoes	744	144	19.4	0.003 - 0.56	0.002 ^	0.60
Onions	558	0			0.003 - 0.005	0.20
Papaya	366	2	0.5	0.002 - 0.003	0.002 ^	0.30
Plums	697	0			0.003 ^	2.5
Snap Peas (V-96)	743	96	12.9	0.002 - 0.14	0.001 - 0.003	NT
Summer Squash	186	2	1.1	0.005 - 0.012	0.003 - 0.005	0.70
Sweet Bell Peppers	186	8	4.3	0.007 - 0.13	0.005 ^	0.60
Tangerines	709	0			0.005 ^	0.60
Winter Squash	742	3	0.4	0.005 - 0.011	0.003 ^	0.70
TOTAL	**8,960**	**255**				
Diflubenzuron (insecticide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Peaches	777	0			0.012 - 0.15	0.07
Bananas	559	0			0.15 ^	NT
Cauliflower	298	0			0.005 - 0.009	NT
Mushrooms	744	0			0.003 ^	0.2
Onions	279	0			0.012 ^	NT
Orange Juice	330	0			0.003 ^	0.5
Plums	697	0			0.012 ^	0.07
Snap Peas	681	0			0.001 - 0.045	NT
Summer Squash	94	0			0.012 ^	NT
Sweet Bell Peppers	186	0			0.15 ^	1.0
Winter Squash	742	0			0.012 ^	NT
TOTAL	**5,783**	**0**				
Dimethenamid (herbicide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.007	NT
Bananas	559	0			0.007 ^	NT
Cauliflower	737	0			0.001 ^	NT
Mushrooms	713	0			0.003 ^	NT
Onions	558	0			0.002 - 0.050	0.01
Orange Juice	330	0			0.003 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	0.01
TOTAL	**6,346**	**0**				
Dimethoate (insecticide) (parent of Omethoate)						
Apple Juice	396	0			0.005 ^	NT
Avocado	372	0			0.015 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.005	NT
Baby Food - Peas	395	0			0.010 ^	2.0
Bananas	559	0			0.005 ^	NT
Cantaloupe	372	6	1.6	0.011 - 0.031	0.010 ^	1.0
Cauliflower	737	5	0.7	0.003 ^	0.002 ^	2.0
Cherry Tomatoes	744	4	0.5	0.003 - 0.027	0.002 ^	2.0
Mushrooms (V-3)	744	3	0.4	0.006 - 0.020	0.005 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.005 ^	2.0
Plums	697	0			0.002 ^	NT
Snap Peas	743	177	23.8	0.003 - 1.0	0.002 ^	2.0
Summer Squash	186	0			0.002 - 0.010	NT
Sweet Bell Peppers	186	12	6.5	0.005 - 0.30	0.005 ^	2.0
Tangerines	709	0			0.010 ^	2.0
Winter Squash	742	0			0.002 ^	NT
TOTAL	**9,364**	**207**				

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
Dimethomorph (fungicide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Cantaloupe	372	0			0.010 ^	0.5
Cauliflower	737	0			0.001 ^	6.0
Cherry Tomatoes	744	3	0.4	0.15 - 0.42	0.089 ^	1.5
Mushrooms	744	0			0.003 ^	NT
Onions	558	1	0.2	0.016 ^	0.003 - 0.010	0.6
Orange Juice	330	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas (V-4)	743	4	0.5	0.005 - 0.006	0.001 - 0.003	NT
Summer Squash	186	1	0.5	0.005 ^	0.003 - 0.010	0.5
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	3	0.4	0.005 ^	0.003 ^	0.5
TOTAL	**7,760**	**12**				
2,4-dimethylphenyl formamide - 2,4-DMPF (insecticide) (breakdown product of Amitraz)						
Cantaloupe	372	0			0.010 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**1,081**	**0**				
Dinotefuran (insecticide)						
Apple Juice	396	0			0.003 ^	1.0
Baby Food - Peaches	777	0			0.006 - 0.010	1.0
Bananas	559	0			0.010 ^	0.01
Cantaloupe	372	1	0.3	0.011 ^	0.010 ^	0.5
Cauliflower	737	5	0.7	0.010 - 0.038	0.006 - 0.020	1.4
Cherry Tomatoes (X-1)	712	35	4.9	0.023 - 3.0	0.014 - 0.047	0.7
Mushrooms	744	0			0.003 ^	0.01
Onions	279	0			0.006 ^	0.01
Orange Juice	330	0			0.003 ^	0.01
Plums	697	0			0.006 ^	1.0
Snap Peas	743	0			0.006 ^	0.01
Summer Squash	186	14	7.5	0.010 - 0.13	0.006 - 0.10	0.5
Sweet Bell Peppers	186	16	8.6	0.010 - 0.25	0.010 ^	0.7
Tangerines	594	0			0.010 ^	0.01
Winter Squash	742	10	1.3	0.010 - 0.023	0.006 ^	0.5
TOTAL	**8,054**	**81**				
Dioxathion (insecticide)						
Baby Food - Peaches	406	0			0.012 ^	NT
Onions	279	0			0.012 ^	NT
Plums	697	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Summer Squash	94	0			0.012 ^	NT
Winter Squash	742	0			0.012 ^	NT
TOTAL	**2,590**	**0**				
Diphenamid (herbicide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Snap Peas	371	0			0.002 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**2,585**	**0**				
Diphenylamine - DPA (plant growth regulator)						
Apple Juice	396	55	13.9	0.002 - 0.10	0.002 ^	10.0
Baby Food - Applesauce	396	18	4.5	0.006 - 0.044	0.005 ^	10.0
Baby Food - Peaches	777	0			0.003 - 0.060	NT
Bananas	559	0			0.060 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.010 ^	NT
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	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
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.020 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**7,761**	**73**				
Disulfoton (insecticide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.035	NT
Bananas	559	0			0.035 ^	NT
Cantaloupe	351	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	0.75
Mushrooms	744	0			0.010 - 0.030	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.030 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	727	0			0.002 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,538**	**0**				
Disulfoton oxon (metabolite of Disulfoton)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Peaches	371	0			0.002 ^	NT
Bananas	559	0			0.002 ^	NT
Cauliflower	737	0			0.002 ^	0.75
Mushrooms	744	0			0.001 ^	NT
Orange Juice	330	0			0.001 ^	NT
Snap Peas	371	0			0.002 ^	NT
TOTAL	**3,508**	**0**				
Disulfoton sulfone (metabolite of Disulfoton)						
Apple Juice	396	0			0.020 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.010	NT
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	0.75
Mushrooms	744	0			0.020 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.020 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**7,575**	**0**				
Disulfoton sulfone oxygen analog (metabolite of Disulfoton)						
Baby Food - Peaches	371	0			0.005 ^	NT
Bananas	559	0			0.005 ^	NT
Snap Peas	371	0			0.003 ^	NT
TOTAL	**1,301**	**0**				
Disulfoton sulfoxide (metabolite of Disulfoton)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.005	NT
Bananas	559	0			0.005 ^	NT
Cauliflower	737	0			0.002 ^	0.75
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.005 ^	NT
Plums	697	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
Snap Peas	743	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**6,098**	**0**				
Disulfoton sulfoxide oxygen analog (metabolite of Disulfoton)						
Baby Food - Peaches	371	0			0.003 ^	NT
Bananas	559	0			0.003 ^	NT
Cauliflower	737	0			0.003 - 0.006	0.75
Snap Peas	371	0			0.001 ^	NT
TOTAL	**2,038**	**0**				
Diuron (herbicide)						
Apple Juice	396	0			0.003 ^	0.1
Avocado	372	0			0.030 ^	NT
Baby Food - Peaches	406	0			0.012 ^	0.1
Baby Food - Peas	395	0			0.10 ^	0.1
Cauliflower	737	0			0.008 - 0.050	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.012 ^	NT
Orange Juice	330	0			0.003 ^	0.05
Papaya	366	0			0.010 ^	0.5
Plums	697	0			0.012 ^	NT
Snap Peas	743	1	0.1	0.020 ^	0.008 - 0.012	0.1
Summer Squash	94	0			0.012 ^	NT
Winter Squash	742	0			0.012 ^	NT
TOTAL	**6,301**	**1**				
Dodine (fungicide)						
Apple Juice	396	0			0.010 ^	5.0
Baby Food - Peaches	406	0			0.012 ^	5.0
Onions	279	0			0.012 ^	NT
Plums	697	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Summer Squash	94	0			0.012 ^	NT
Winter Squash	742	0			0.012 ^	NT
TOTAL	**2,986**	**0**				
Emamectin (insecticide)						
Baby Food - Peaches	406	0			0.006 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**2,590**	**0**				
Emamectin benzoate (insecticide)						
Apple Juice	396	0			0.010 ^	0.025
Cauliflower	737	0			0.001 ^	0.050
Snap Peas (V-1)	371	1	0.3	0.002 ^	0.001 ^	NT
TOTAL	**1,504**	**1**				
Endosulfan I (insecticide)						
Apple Juice	396	0			0.010 ^	1.0
Baby Food - Applesauce	396	0			0.001 ^	1.0
Baby Food - Carrots	792	0			0.060 ^	0.2
Baby Food - Peaches	777	0			0.003 - 0.030	2.0
Bananas	559	0			0.030 ^	NT
Cantaloupe	372	0			0.010 ^	1.0
Cauliflower	737	0			0.020 ^	2.0
Cherry Tomatoes	744	61	8.2	0.006 - 0.12	0.004 ^	1.0
Mushrooms	744	0			0.002 - 0.010	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.002 - 0.010	NT
Plums	697	0			0.003 - 0.006	2.0
Snap Peas	743	5	0.7	0.010 - 0.042	0.003 - 0.006	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
Summer Squash	186	9	4.8	0.010 - 0.072	0.006 - 0.25	1.0
Sweet Bell Peppers	186	10	5.4	0.014 - 0.30	0.012 ^	2.0
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	17	2.3	0.010 - 0.041	0.006 ^	1.0
TOTAL	**9,389**	**102**				
Endosulfan II (isomer of Endosulfan)						
Apple Juice	396	0			0.015 ^	1.0
Baby Food - Applesauce	396	0			0.001 ^	1.0
Baby Food - Carrots	792	0			0.050 ^	0.2
Baby Food - Peaches	777	0			0.005 - 0.041	2.0
Bananas	559	0			0.041 ^	NT
Cantaloupe	372	0			0.010 ^	1.0
Cauliflower	737	0			0.004 ^	2.0
Cherry Tomatoes	744	58	7.8	0.016 - 0.19	0.010 ^	1.0
Mushrooms	744	0			0.001 - 0.015	NT
Onions	279	0			0.009 ^	NT
Orange Juice	330	0			0.001 - 0.015	NT
Plums	697	0			0.005 - 0.009	2.0
Snap Peas	742	27	3.6	0.002 - 0.18	0.001 - 0.009	2.0
Summer Squash	186	4	2.2	0.015 ^	0.009 - 0.050	1.0
Sweet Bell Peppers	186	13	7	0.021 - 0.35	0.020 ^	2.0
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	1	0.1	0.015 ^	0.009 ^	1.0
TOTAL	**9,388**	**103**				
Endosulfan sulfate (metabolite of Endosulfan)						
Apple Juice	396	0			0.005 ^	1.0
Baby Food - Applesauce	396	0			0.001 ^	1.0
Baby Food - Carrots	792	0			0.010 - 0.020	0.2
Baby Food - Peaches	777	0			0.003 - 0.020	2.0
Bananas	559	0			0.020 ^	NT
Cantaloupe	372	12	3.2	0.011 - 0.060	0.010 ^	1.0
Cauliflower	691	0			0.012 ^	2.0
Cherry Tomatoes	744	69	9.3	0.007 - 0.061	0.004 ^	1.0
Mushrooms	744	0			0.003 - 0.005	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.003 - 0.005	NT
Plums	697	1	0.1	0.005 ^	0.003 - 0.005	2.0
Snap Peas	742	46	6.2	0.005 - 0.43	0.003 - 0.012	2.0
Summer Squash	186	58	31.2	0.005 - 0.13	0.003 - 0.050	1.0
Sweet Bell Peppers	186	15	8.1	0.008 - 0.042	0.006 ^	2.0
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	169	22.8	0.005 - 0.15	0.003 ^	1.0
TOTAL	**9,342**	**370**				
EPTC (herbicide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Carrots	792	0			0.004 ^	0.1
Baby Food - Peaches	371	0			0.035 ^	NT
Baby Food - Peas	395	0			0.005 ^	0.08
Bananas	559	0			0.035 ^	NT
Cauliflower	737	0			0.020 ^	NT
Cherry Tomatoes	744	0			0.002 ^	0.08
Mushrooms	744	0			0.010 ^	NT
Orange Juice	330	0			0.010 ^	0.1
Snap Peas	371	0			0.006 ^	0.08
Sweet Bell Peppers	186	0			0.035 ^	NT
TOTAL	**5,625**	**0**				
Esfenvalerate+Fenvalerate Total (insecticide)						
Apple Juice	396	0			0.005 ^	1.0
Avocado	372	0			0.003 ^	0.05
Baby Food - Applesauce	396	0			0.001 ^	1.0
Baby Food - Carrots	792	0			0.025 ^	0.5
Baby Food - Peaches	406	86	21.2	0.012 - 0.025	0.008 - 0.015	3.0
Baby Food - Peas	395	0			0.075 ^	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
Cantaloupe	372	0			0.010 ^	0.5
Cauliflower	709	0			0.002 - 0.008	0.5
Cherry Tomatoes	744	12	1.6	0.10 - 0.25	0.061 ^	0.5
Mushrooms	744	0			0.002 - 0.005	0.05
Onions	558	0			0.008 - 0.13	0.05
Orange Juice	330	0			0.002 - 0.005	0.05
Papaya	366	0			0.10 ^	0.05
Plums	697	1	0.1	0.012 ^	0.008 - 0.015	3.0
Snap Peas	743	16	2.2	0.004 - 0.052	0.002 - 0.015	1
Summer Squash	186	0			0.008 - 0.075	0.5
Tangerines	709	0			0.010 ^	0.05
Winter Squash	742	3	0.4	0.012 - 0.013	0.008 ^	0.5
TOTAL	**9,657**	**118**				
Esfenvalerate (isomer of Fenvalerate)						
Baby Food - Peaches	371	0			0.035 ^	3.0
Bananas	559	0			0.035 ^	0.05
Sweet Bell Peppers	186	1	0.5	0.012 ^	0.010 ^	0.5
TOTAL	**1,116**	**1**				
Ethalfluralin (herbicide)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.010	NT
Baby Food - Peas	395	0			0.025 ^	NT
Bananas	559	0			0.010 ^	NT
Cauliflower	737	0			0.008 ^	NT
Mushrooms	744	0			0.001 - 0.005	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.001 - 0.005	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.002 - 0.006	NT
Summer Squash	186	0			0.006 - 0.020	0.05
Winter Squash	742	0			0.006 ^	0.05
TOTAL	**6,585**	**0**				
Ethiofencarb (insecticide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	705	0			0.008 ^	NT
Snap Peas	371	0			0.002 - 0.008	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**2,553**	**0**				
Ethion (insecticide)						
Apple Juice	396	0			0.001 ^	NT
Avocado	372	0			0.015 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.007	NT
Bananas	559	0			0.007 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	94	0			0.002 ^	NT
Sweet Bell Peppers	186	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	5.0
Winter Squash	742	0			0.002 ^	NT
TOTAL	**7,059**	**0**				
Ethion mono oxon (metabolite of Ethion)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.002 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**4,094**	**0**				
Ethofumesate (herbicide)						
Baby Food - Carrots	792	0			0.020 ^	7.0
Baby Food - Peaches	777	0			0.002 - 0.005	NT
Bananas	559	0			0.005 ^	NT
Onions	558	0			0.002 - 0.025	0.25
Plums	697	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**4,591**	**0**				
Ethoprop (insecticide)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.002 ^	NT
Bananas	559	9	1.6	0.002 - 0.006	0.002 ^	0.02
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 ^	NT
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	94	0			0.002 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**7,575**	**9**				
Etoxazole (acaricide)						
Apple Juice	396	0			0.005 ^	0.20
Avocado	372	0			0.045 ^	0.20
Baby Food - Applesauce	396	0			0.004 ^	0.20
Baby Food - Peaches	406	0			0.002 ^	1.0
Cauliflower	737	0			0.001 ^	NT
Cherry Tomatoes	744	1	0.1	0.007 ^	0.001 ^	0.20
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	0.15
Snap Peas (V-1)	743	1	0.1	0.004 ^	0.001 - 0.002	NT
Summer Squash	186	0			0.002 - 0.005	0.02
Winter Squash	742	0			0.002 ^	0.02
TOTAL	**5,698**	**2**				
Etridiazole (fungicide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	371	0			0.010 ^	NT
Baby Food - Peas	395	0			0.10 ^	0.1
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Sweet Bell Peppers	186	0			0.010 ^	NT
Tangerines	672	0			0.010 ^	NT
TOTAL	**2,951**	**0**				
Famoxadone (fungicide)						
Apple Juice	396	0			0.025 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.033	NT
Bananas	559	0			0.033 ^	NT
Cherry Tomatoes	744	9	1.2	0.068 - 0.50	0.041 ^	1.0
Mushrooms	744	0			0.025 ^	NT
Onions	558	0			0.006 - 0.10	0.45
Orange Juice	330	0			0.025 ^	NT
Plums	697	0			0.003 - 0.006	NT
Snap Peas	372	0			0.003 - 0.006	NT
Summer Squash	186	0			0.006 - 0.050	0.30

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	186	6	3.2	0.038 - 0.13	0.033 ^	4.0
Winter Squash	742	9	1.2	0.010 - 0.047	0.003 - 0.006	0.30
TOTAL	**6,291**	**24**				
Fenamidone (fungicide)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Carrots	792	0			0.002 ^	0.15
Baby Food - Peaches	777	0			0.003 - 0.060	NT
Bananas	559	0			0.060 ^	NT
Cantaloupe	372	0			0.010 ^	0.15
Cauliflower	737	0			0.008 ^	5.0
Cherry Tomatoes	744	0			0.020 ^	1.0
Mushrooms	744	0			0.005 ^	NT
Onions	558	0			0.003 - 0.050	0.20
Orange Juice	330	0			0.005 ^	NT
Plums	697	0			0.003 - 0.006	NT
Snap Peas (V-1)	743	1	0.1	0.004 ^	0.002 - 0.006	NT
Summer Squash	186	0			0.006 - 0.050	0.15
Sweet Bell Peppers	186	0			0.020 ^	1.0
Winter Squash	742	2	0.3	0.005 ^	0.003 - 0.006	0.15
TOTAL	**8,563**	**3**				
Fenamiphos (insecticide)						
Baby Food - Applesauce	396	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.006	NT
Bananas	559	0			0.006 ^	0.1
Cantaloupe	372	0			0.005 ^	NT
Cauliflower	737	0			0.001 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	94	0			0.002 ^	NT
Sweet Bell Peppers	186	0			0.006 ^	NT
Tangerines	709	0			0.005 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**6,291**	**0**				
Fenamiphos sulfone (metabolite of Fenamiphos)						
Baby Food - Applesauce	396	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.004	NT
Bananas	559	0			0.004 ^	0.1
Cantaloupe	372	0			0.005 ^	NT
Cauliflower	737	0			0.004 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 - 0.004	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.004 ^	NT
Tangerines	709	0			0.005 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,291**	**0**				
Fenamiphos sulfoxide (metabolite of Fenamiphos)						
Baby Food - Applesauce	396	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.012	NT
Bananas	559	0			0.004 ^	0.1
Cantaloupe	372	0			0.005 ^	NT
Cauliflower	737	0			0.004 ^	NT
Onions	279	0			0.006 - 0.012	NT
Plums	697	0			0.003 - 0.024	NT
Snap Peas	743	0			0.003 - 0.012	NT
Summer Squash	94	0			0.012 ^	NT
Sweet Bell Peppers	186	0			0.004 ^	NT
Tangerines	709	0			0.005 ^	NT
Winter Squash	742	0			0.003 - 0.012	NT
TOTAL	**6,291**	**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
Fenarimol (fungicide)						
Baby Food - Applesauce	396	1	0.3	0.002 ^	0.001 ^	0.3
Baby Food - Peaches	777	0			0.008 - 0.013	NT
Bananas	559	0			0.013 ^	0.25
Cantaloupe	372	0			0.010 ^	0.20
Cauliflower	723	0			0.002 ^	NT
Onions	279	0			0.008 ^	NT
Plums	697	0			0.008 ^	NT
Snap Peas	728	0			0.002 - 0.008	NT
Summer Squash	186	0			0.008 - 0.025	0.20
Sweet Bell Peppers	186	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.008 ^	0.20
TOTAL	**6,354**	**1**				
Fenazaquin (insecticide, acaricide)						
Apple Juice	396	0			0.005 ^	0.2
Mushrooms	713	0			0.005 ^	NT
Orange Juice	330	0			0.005 ^	0.5
TOTAL	**1,439**	**0**				
Fenbuconazole (fungicide)						
Apple Juice	396	0			0.005 ^	0.4
Baby Food - Applesauce	396	3	0.8	0.005 - 0.008	0.005 ^	0.4
Baby Food - Peaches	777	0			0.005 - 0.006	1.0
Bananas	559	0			0.005 ^	0.3
Cantaloupe	372	0			0.005 ^	NT
Cauliflower	737	0			0.001 - 0.003	NT
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.005 ^	1.0
Plums	697	0			0.006 ^	1.0
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.005 ^	0.40
Tangerines	709	0			0.005 ^	1.0
Winter Squash (V-5)	742	5	0.7	0.010 - 0.041	0.006 ^	NT
TOTAL	**7,761**	**8**				
Fenchlorphos (insecticide)						
Baby Food - Peaches	406	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**2,590**	**0**				
Fenhexamid (fungicide)						
Apple Juice	396	0			0.013 ^	NT
Baby Food - Peaches	777	0			0.011 - 0.024	10.0
Bananas	559	0			0.011 ^	NT
Cauliflower	707	0			0.030 ^	NT
Cherry Tomatoes	744	6	0.8	0.047 - 0.42	0.003 ^	2.0
Mushrooms	744	0			0.013 ^	NT
Onions	279	0			0.024 ^	NT
Orange Juice	330	0			0.013 ^	NT
Plums	697	53	7.6	0.040 - 1.2	0.024 ^	1.5
Snap Peas (V-2)	728	2	0.3	0.067 - 0.13	0.009 - 0.024	NT
Summer Squash	186	0			0.010 - 0.024	NT
Sweet Bell Peppers	186	2	1.1	0.014 - 0.016	0.011 ^	2.0
Winter Squash	742	0			0.024 ^	NT
TOTAL	**7,075**	**63**				
Fenitrothion (insecticide)						
Baby Food - Peaches	406	0			0.006 ^	NT
Cauliflower	737	0			0.003 - 0.010	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.003 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**3,698**	**0**				
Fenobucarb - BPMC (insecticide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,590**	**0**				
Fenpropathrin (insecticide)						
Apple Juice	396	0			0.020 ^	5.0
Avocado	372	0			0.009 ^	1.0
Baby Food - Applesauce	396	70	17.7	0.002 - 0.005	0.001 ^	5.0
Baby Food - Carrots	792	0			0.020 ^	NT
Baby Food - Peaches	777	0			0.012 - 0.020	1.4
Baby Food - Peas	395	0			0.12 ^	0.02
Bananas	559	0			0.020 ^	NT
Cantaloupe	372	0			0.010 ^	0.5
Cauliflower	737	0			0.010 ^	3.0
Cherry Tomatoes	744	20	2.7	0.073 - 0.17	0.044 ^	1.0
Mushrooms	744	0			0.020 ^	NT
Onions	558	0			0.012 - 0.050	NT
Orange Juice	330	0			0.020 ^	2.0
Papaya	366	0			0.080 ^	1.0
Plums	697	24	3.4	0.020 - 0.085	0.012 ^	1.4
Snap Peas	743	0			0.003 - 0.012	0.02
Summer Squash	186	0			0.012 - 0.10	0.5
Sweet Bell Peppers	186	1	0.5	0.007 ^	0.004 ^	1.0
Tangerines	709	0			0.010 ^	2.0
Winter Squash	742	3	0.4	0.020 - 0.049	0.012 ^	0.5
TOTAL	**10,801**	**118**				
Fenpropimorph (fungicide)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
TOTAL	**792**	**0**				
Fenpyroximate (acaricide)						
Apple Juice	396	0			0.005 ^	0.40
Baby Food - Applesauce	396	0			0.010 ^	0.40
Cantaloupe	372	0			0.010 ^	0.10
Cauliflower	737	0			0.001 ^	NT
Cherry Tomatoes	744	51	6.9	0.003 - 0.078	0.002 ^	0.20
Mushrooms	682	0			0.005 ^	NT
Orange Juice	297	0			0.005 ^	0.60
Snap Peas	371	0			0.001 ^	NT
Tangerines	709	0			0.010 ^	0.60
TOTAL	**4,704**	**51**				
Fensulfothion (insecticide, fumigant)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,590**	**0**				
Fenthion (insecticide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	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
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.002 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**5,175**	**0**				
Fipronil (insecticide)						
Baby Food - Applesauce	308	0			0.001 ^	NT
Baby Food - Peaches	371	0			0.010 ^	NT
Bananas	559	0			0.010 ^	NT
Cauliflower	737	0			0.010 - 0.020	NT
Snap Peas (V-1)	371	1	0.3	0.011 ^	0.003 - 0.010	NT
TOTAL	**2,346**	**1**				
Fipronil sulfone - MB46136 (metabolite of Fipronil)						
Apple Juice	396	0			0.050 ^	NT
TOTAL	**396**	**0**				
Flonicamid (insecticide)						
Apple Juice	396	0			0.006 ^	0.20
Baby Food - Applesauce	396	0			0.010 ^	0.20
Baby Food - Carrots	792	0			0.050 ^	0.60
Baby Food - Peaches	777	0			0.005 - 0.018	0.60
Bananas	559	0			0.005 ^	NT
Cantaloupe	372	0			0.010 ^	0.40
Cauliflower	737	2	0.3	0.002 ^	0.001 - 0.003	1.5
Cherry Tomatoes (X-14)	743	103	13.9	0.002 - 2.3	0.001 ^	0.40
Mushrooms	744	0			0.006 ^	NT
Onions	279	0			0.018 ^	NT
Orange Juice	330	0			0.006 ^	NT
Plums	697	0			0.018 ^	0.60
Snap Peas	743	0			0.001 - 0.018	NT
Summer Squash	186	8	4.3	0.030 ^	0.018 - 0.10	0.40
Winter Squash	742	1	0.1	0.030 ^	0.018 ^	0.40
TOTAL	**8,493**	**114**				
Fluazifop butyl (herbicide)						
Baby Food - Carrots	792	0			0.005 ^	2.0
Baby Food - Peaches	406	0			0.002 ^	0.05
Cauliflower	737	0			0.001 ^	NT
Onions	558	0			0.002 - 0.005	0.5
Plums	697	0			0.002 ^	0.05
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**4,769**	**0**				
Flubendiamide (insecticide)						
Apple Juice	396	0			0.035 ^	0.70
Baby Food - Peaches	406	0			0.003 ^	1.6
Baby Food - Peas	395	0			0.005 ^	0.05
Cherry Tomatoes	744	6	0.8	0.015 - 0.11	0.009 ^	0.60
Mushrooms	744	0			0.035 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.035 ^	NT
Plums	697	4	0.6	0.005 ^	0.003 ^	1.6
Snap Peas	372	2	0.5	0.005 - 0.011	0.003 ^	0.50
Summer Squash	186	0			0.003 - 0.005	0.20
Winter Squash	742	3	0.4	0.005 ^	0.003 ^	0.20
TOTAL	**5,291**	**15**				
Fludioxonil (fungicide)						
Apple Juice	396	0			0.025 ^	5.0
Avocado	372	0			0.060 ^	0.45

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 - Applesauce	396	8	2	0.002 - 0.17	0.001 ^	5.0
Baby Food - Carrots	792	0			0.020 ^	0.75
Baby Food - Peaches	777	1	0.1	0.031 ^	0.006 - 0.015	5.0
Baby Food - Peas	395	0			0.015 ^	0.01
Bananas	559	0			0.015 ^	NT
Cantaloupe	331	0			0.010 ^	0.03
Cauliflower	737	0			0.012 - 0.040	2.0
Cherry Tomatoes	744	6	0.8	0.003 - 0.036	0.002 ^	0.50
Mushrooms	744	0			0.025 - 0.050	NT
Onions	558	0			0.006 - 0.15	0.20
Orange Juice	330	0			0.025 - 0.050	10
Papaya	366	0			0.020 ^	0.45
Plums	697	377	54.1	0.010 - 2.6	0.006 ^	5.0
Snap Peas	743	0			0.006 - 0.012	0.01
Summer Squash	186	0			0.006 - 0.060	0.45
Sweet Bell Peppers (X-1)	186	1	0.5	0.051 ^	0.015 ^	0.01
Tangerines	709	35	4.9	0.011 - 0.096	0.010 ^	10
Winter Squash	742	0			0.006 ^	0.45
TOTAL	**10,760**	**428**				
Flufenoxuron (insecticide)						
Apple Juice	396	0			0.002 ^	0.50
Mushrooms	589	0			0.002 ^	NT
Orange Juice	297	0			0.002 ^	0.30
TOTAL	**1,282**	**0**				
Flumioxazin (herbicide)						
Apple Juice	396	0			0.010 ^	0.02
Baby Food - Peaches	371	0			0.020 ^	0.02
Bananas	559	0			0.020 ^	NT
Cherry Tomatoes	744	0			0.029 ^	0.02
Onions	279	0			0.090 ^	0.02
Summer Squash	92	0			0.18 ^	0.03
Sweet Bell Peppers	186	0			0.020 ^	0.02
TOTAL	**2,627**	**0**				
Fluopicolide (fungicide)						
Apple Juice	396	0			0.015 ^	NT
Baby Food - Carrots	792	0			0.099 ^	0.15
Baby Food - Peaches	777	0			0.002 - 0.007	NT
Bananas	559	0			0.007 ^	NT
Cherry Tomatoes	744	5	0.7	0.003 - 0.008	0.002 ^	1.60
Mushrooms	744	0			0.015 - 0.030	NT
Onions	558	6	1.1	0.003 - 0.024	0.002 - 0.010	7.0
Orange Juice	330	0			0.015 - 0.030	NT
Plums	697	0			0.002 ^	NT
Snap Peas (V-5)	372	5	1.3	0.003 - 0.17	0.002 ^	NT
Summer Squash	186	7	3.8	0.003 - 0.045	0.002 - 0.010	0.50
Winter Squash	742	22	3	0.003 - 0.045	0.002 ^	0.50
TOTAL	**6,897**	**45**				
Fluoxastrobin (fungicide)						
Baby Food - Applesauce	396	0			0.002 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.025	NT
Bananas	559	0			0.025 ^	NT
Cantaloupe	372	0			0.002 ^	NT
Cauliflower	737	0			0.004 ^	NT
Cherry Tomatoes	744	2	0.3	0.033 ^	0.020 ^	1.0
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	186	0			0.002 - 0.005	0.50
Sweet Bell Peppers	186	0			0.025 ^	1.0
Tangerines	709	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	0.50
TOTAL	**7,127**	**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
Fluquinconazole (fungicide)						
Apple Juice	396	0			0.010 ^	NT
TOTAL	**396**	**0**				
Fluridone (herbicide)						
Apple Juice	396	0			0.001 ^	0.1
Avocado	372	0			0.030 ^	0.1
Baby Food - Applesauce	396	0			0.010 ^	0.1
Baby Food - Carrots	792	0			0.003 ^	0.1
Baby Food - Peaches	777	0			0.001 - 0.002	0.1
Baby Food - Peas	395	0			0.005 ^	0.1
Bananas	559	0			0.001 ^	NT
Cantaloupe	372	0			0.010 ^	0.1
Mushrooms	744	0			0.001 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.001 ^	0.1
Plums	697	0			0.002 ^	0.1
Snap Peas	372	0			0.002 ^	0.1
Summer Squash	186	0			0.002 - 0.005	0.1
Sweet Bell Peppers	186	0			0.001 ^	0.1
Tangerines	709	0			0.010 ^	0.1
Winter Squash	742	0			0.002 ^	0.1
TOTAL	**8,304**	**0**				
Flusilazole (fungicide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce (V-1)	396	1	0.3	0.003 ^	0.002 ^	NT
Mushrooms	248	0			0.010 ^	NT
TOTAL	**1,040**	**1**				
Flutolanil (fungicide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Peaches	406	0			0.002 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.003 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**4,060**	**0**				
Flutriafol (fungicide)						
Apple Juice	396	0			0.010 ^	0.40
TOTAL	**396**	**0**				
Fluvalinate (insecticide)						
Apple Juice	396	0			0.050 ^	NT
Avocado	372	0			0.003 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Carrots	792	0			0.016 ^	NT
Baby Food - Peaches	777	0			0.012 - 0.036	NT
Baby Food - Peas	395	0			0.30 ^	NT
Bananas	559	0			0.036 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cherry Tomatoes	744	0			0.059 ^	NT
Mushrooms	744	0			0.010 - 0.050	NT
Onions	558	0			0.012 - 0.16	NT
Orange Juice	330	0			0.010 - 0.050	NT
Papaya	366	0			0.10 ^	NT
Plums	697	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Summer Squash	186	0			0.012 - 0.30	NT
Sweet Bell Peppers	186	0			0.021 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.012 ^	NT
TOTAL	**9,693**	**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
Folpet (fungicide)						
Apple Juice	396	0			0.030 ^	5.0
Avocado	372	0			0.009 ^	25.0
Baby Food - Applesauce	308	0			0.003 ^	5.0
Baby Food - Peaches	371	0			0.030 ^	NT
Bananas	497	0			0.030 - 0.15	NT
Mushrooms	744	0			0.030 ^	NT
Orange Juice	297	0			0.030 ^	NT
Tangerines	101	0			0.030 ^	NT
TOTAL	**3,086**	**0**				
Fonofos (insecticide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**5,175**	**0**				
Forchlorfenuron (plant growth regulator)						
Baby Food - Applesauce	396	0			0.002 ^	NT
Baby Food - Peaches	406	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	0.01
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**2,986**	**0**				
Formetanate hydrochloride (insecticide)						
Baby Food - Peaches	777	0			0.006 - 0.010	0.40
Bananas	559	0			0.010 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**3,706**	**0**				
Fosthiazate (nematicide)						
Cherry Tomatoes	744	0			0.001 ^	0.02
TOTAL	**744**	**0**				
Halosulfuron (herbicide)						
Baby Food - Peaches	371	0			0.050 ^	NT
Baby Food - Peas	395	0			0.050 ^	0.05
Bananas	559	0			0.050 - 0.10	NT
Summer Squash	92	0			0.050 ^	0.5
Sweet Bell Peppers	186	0			0.050 ^	0.05
TOTAL	**1,603**	**0**				
Halosulfuron methyl (herbicide)						
Baby Food - Applesauce	396	0			0.010 ^	0.05
Cantaloupe	372	0			0.010 ^	0.1
Cherry Tomatoes	744	0			0.001 ^	0.05
Tangerines	709	0			0.010 ^	NT
TOTAL	**2,221**	**0**				
Hexaconazole (fungicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.012 ^	NT
Cantaloupe	372	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
Onions	279	0			0.012 ^	NT
Plums	697	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Summer Squash	94	0			0.012 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.012 ^	NT
TOTAL	**4,067**	**0**				
Hexazinone (herbicide)						
Baby Food - Peaches	371	0			0.004 ^	NT
Bananas	559	0			0.004 ^	NT
TOTAL	**930**	**0**				
Hexythiazox (insecticide, acaricide)						
Apple Juice	363	0			0.002 ^	0.25
Baby Food - Applesauce	396	0			0.010 ^	0.25
Baby Food - Peaches	777	58	7.5	0.005 - 0.013	0.003 - 0.012	1.0
Baby Food - Peas	395	0			0.10 ^	NT
Bananas	559	0			0.012 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Mushrooms	713	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	297	0			0.002 ^	0.35
Plums	697	0			0.003 ^	1.0
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.012 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,242**	**58**				
Hydroprene (insect growth regulator)						
Apple Juice	396	0			0.10 ^	0.2
Baby Food - Peas	395	0			0.080 ^	0.2
Cauliflower	737	0			0.002 ^	0.2
Onions	279	0			0.080 ^	0.2
Papaya	366	0			0.030 ^	0.2
Snap Peas	371	0			0.002 ^	0.2
Summer Squash	92	0			0.080 ^	0.2
TOTAL	**2,636**	**0**				
3-Hydroxycarbofuran (metabolite of Carbofuran)						
Apple Juice	396	0			0.003 ^	NT
Avocado	372	0			0.012 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Carrots	792	0			0.040 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.006	NT
Baby Food - Peas	395	0			0.010 ^	NT
Bananas	559	0			0.002 ^	0.1
Cantaloupe	372	0			0.010 ^	0.4
Cauliflower	737	0			0.004 ^	NT
Cherry Tomatoes	682	0			0.002 - 0.007	NT
Mushrooms	744	0			0.003 ^	NT
Onions	558	0			0.006 - 0.020	NT
Orange Juice	330	0			0.003 ^	NT
Papaya	366	0			0.004 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	186	0			0.006 - 0.010	0.8
Sweet Bell Peppers	186	0			0.002 ^	1
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	0.8
TOTAL	**10,739**	**0**				
5-Hydroxythiabendazole (metabolite of Thiabendazole)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	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
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,590**	**0**				
Imazalil (fungicide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.005	NT
Bananas	559	183	32.7	0.005 - 0.078	0.005 ^	3.0
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.009 - 0.030	NT
Mushrooms	744	0			0.010 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	25	7.6	0.012 - 0.037	0.010 ^	10.0
Plums (V-7)	697	7	1	0.005 - 0.016	0.003 ^	NT
Snap Peas	743	0			0.003 - 0.009	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.005 ^	NT
Tangerines	709	643	90.7	0.011 - 3.4	0.010 ^	10.0
Winter Squash	742	0			0.003 ^	NT
TOTAL	**7,761**	**858**				
Imazethapyr (herbicide)						
Apple Juice	363	0			0.020 ^	NT
Mushrooms	744	0			0.020 - 0.10	NT
Orange Juice	330	0			0.020 ^	NT
TOTAL	**1,437**	**0**				
Imidacloprid (insecticide)						
Apple Juice	363	0			0.003 ^	0.5
Avocado	372	0			0.008 ^	1.0
Baby Food - Applesauce	396	1	0.3	0.014 ^	0.010 ^	0.5
Baby Food - Carrots	792	0			0.008 ^	0.40
Baby Food - Peaches	777	0			0.006 - 0.009	3.0
Baby Food - Peas	395	0			0.030 ^	4.0
Bananas	559	10	1.8	0.009 - 0.022	0.009 ^	0.50
Cantaloupe	372	19	5.1	0.010 - 0.040	0.010 ^	0.5
Cauliflower	737	222	30.1	0.002 - 0.036	0.001 - 0.003	3.5
Cherry Tomatoes	744	164	22	0.008 - 0.42	0.005 ^	1.0
Mushrooms	744	0			0.003 ^	NT
Onions	558	13	2.3	0.010 ^	0.006 - 0.040	0.15
Orange Juice	330	0			0.003 ^	0.70
Papaya	366	1	0.3	0.073 ^	0.056 ^	1.0
Plums	697	2	0.3	0.010 ^	0.006 ^	3.0
Snap Peas	743	40	5.4	0.002 - 0.40	0.001 - 0.006	4.0
Summer Squash	186	42	22.6	0.010 - 0.069	0.006 - 0.030	0.5
Sweet Bell Peppers	186	49	26.3	0.009 - 0.094	0.009 ^	1.0
Tangerines	709	19	2.7	0.011 - 0.094	0.010 ^	0.70
Winter Squash	742	129	17.4	0.010 - 0.21	0.006 ^	0.5
TOTAL	**10,768**	**711**				
Imidacloprid urea (metabolite of Imidacloprid)						
Baby Food - Peaches	371	0			0.022 ^	3.0
Bananas	559	0			0.022 ^	0.50
Sweet Bell Peppers	186	0			0.022 ^	1.0
TOTAL	**1,116**	**0**				
Imiprothrin (insecticide)						
Apple Juice	396	0			0.010 ^	NT
Avocado (V-4)	372	4	1.1	0.077 - 0.20	0.075 ^	NT
Baby Food - Carrots	792	0			0.080 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.090	NT
Baby Food - Peas	395	0			0.040 ^	NT
Bananas	559	0			0.090 ^	NT
Cherry Tomatoes	744	0			0.031 ^	NT
Mushrooms	744	0			0.010 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Onions	558	0			0.006 - 0.20	NT
Orange Juice	330	0			0.010 ^	NT
Papaya	366	0			0.060 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.047 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**8,124**	**4**				
Indaziflam (herbicide)						
Apple Juice	396	0			0.001 ^	0.01
Baby Food - Peaches	406	0			0.002 ^	0.01
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	0.01
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**2,986**	**0**				
Indoxacarb (insecticide)						
Apple Juice	396	0			0.020 ^	1.0
Baby Food - Applesauce	396	0			0.010 ^	1.0
Baby Food - Peaches	777	0			0.006 - 0.021	0.90
Bananas	559	0			0.021 ^	NT
Cantaloupe	372	0			0.010 ^	0.60
Cherry Tomatoes	744	30	4	0.003 - 0.29	0.002 ^	0.50
Mushrooms	744	0			0.020 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	297	0			0.020 ^	NT
Plums	697	5	0.7	0.010 ^	0.006 ^	0.90
Snap Peas	372	0			0.006 ^	NT
Summer Squash	186	0			0.005 - 0.006	0.60
Sweet Bell Peppers	186	2	1.1	0.023 - 0.027	0.021 ^	0.50
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	3	0.4	0.010 ^	0.006 ^	0.60
TOTAL	**7,456**	**40**				
Ipconazole (fungicide)						
Baby Food - Peas	395	0			0.020 ^	NT
TOTAL	**395**	**0**				
Iprodione (fungicide)						
Apple Juice	396	0			0.040 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Carrots	792	0			0.008 ^	5.0
Baby Food - Peaches	777	10	1.3	0.005 - 0.025	0.003 - 0.022	20.0
Bananas	559	0			0.022 ^	NT
Cantaloupe	352	0			0.010 ^	NT
Cauliflower	709	0			0.009 - 0.030	NT
Mushrooms	744	0			0.022 - 0.040	NT
Onions	558	8	1.4	0.005 - 0.016	0.003 - 0.20	0.5
Orange Juice	330	0			0.022 - 0.040	NT
Plums	697	271	38.9	0.005 - 4.5	0.003 - 0.015	20.0
Snap Peas (V-27)	743	27	3.6	0.005 - 5.5	0.003 - 0.060	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash (V-4)	742	4	0.5	0.005 - 0.079	0.003 ^	NT
TOTAL	**8,598**	**320**				
Iprovalicarb (fungicide)						
Baby Food - Peaches	371	0			0.010 ^	NT
Bananas	559	0			0.010 ^	NT
Cherry Tomatoes	744	0			0.002 ^	1.0
Sweet Bell Peppers	186	0			0.010 ^	NT
TOTAL	**1,860**	**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
Isofenphos (insecticide)						
Baby Food - Peaches	406	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**2,590**	**0**				
Isoprocarb (insecticide)						
Baby Food - Peaches	406	0			0.006 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**2,590**	**0**				
Kresoxim-methyl (fungicide)						
Apple Juice	396	0			0.010 ^	0.5
Baby Food - Peaches	777	0			0.006 - 0.008	NT
Bananas	559	0			0.008 ^	NT
Cauliflower	737	0			0.003 - 0.010	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.003 - 0.010	NT
Summer Squash	186	0			0.006 - 0.025	0.40
Sweet Bell Peppers	186	0			0.008 ^	NT
Winter Squash	742	1	0.1	0.022 ^	0.006 ^	0.40
TOTAL	**5,302**	**1**				
Lactofen (herbicide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Cherry Tomatoes	744	0			0.029 ^	0.02
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**3,334**	**0**				
Lenacil (herbicide)						
Baby Food - Applesauce	396	0			0.001 - 0.005	NT
TOTAL	**396**	**0**				
Leptophos oxygen analog (insecticide metabolite)						
Baby Food - Peaches	406	0			0.012 ^	NT
Onions	279	0			0.012 ^	NT
Plums	697	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Summer Squash	94	0			0.012 ^	NT
Winter Squash	742	0			0.012 ^	NT
TOTAL	**2,590**	**0**				
Lindane - BHC gamma (insecticide)						
Apple Juice	396	0			0.013 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Carrots	792	0			0.039 ^	0.5 AL
Baby Food - Peaches	777	0			0.002 - 0.044	NT
Baby Food - Peas	395	0			0.15 ^	0.5 AL
Bananas	559	0			0.044 ^	NT
Cantaloupe	227	0			0.010 ^	NT
Cauliflower	737	0			0.003 ^	NT
Mushrooms	744	0			0.013 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.013 ^	0.5 AL
Plums	697	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
Snap Peas	743	0			0.001 - 0.002	0.5 AL
Summer Squash	94	0			0.002 ^	NT
Tangerines	506	0			0.010 ^	0.5 AL
Winter Squash	742	0			0.002 ^	NT
TOTAL	**8,414**	**0**				
Linuron (herbicide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Applesauce	396	0			0.004 ^	NT
Baby Food - Carrots	792	0			0.008 ^	1.0
Baby Food - Peaches	777	0			0.006 - 0.007	NT
Bananas	559	0			0.007 ^	NT
Cantaloupe	289	0			0.038 ^	NT
Cauliflower	737	0			0.003 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.003 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas (V-3)	743	3	0.4	0.005 - 0.037	0.003 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Tangerines	472	0			0.038 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**8,047**	**3**				
Lufenuron (insecticide)						
Apple Juice	396	0			0.020 ^	NT
TOTAL	**396**	**0**				
Malathion (insecticide)						
Apple Juice	396	0			0.002 ^	8
Avocado	372	0			0.009 ^	8
Baby Food - Applesauce	396	0			0.010 ^	8
Baby Food - Carrots	792	0			0.002 ^	8
Baby Food - Peaches	777	0			0.003 - 0.010	8
Baby Food - Peas	395	0			0.010 ^	8
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	8
Cauliflower	737	1	0.1	0.002 ^	0.001 ^	8
Cherry Tomatoes	744	23	3.1	0.005 - 0.17	0.003 ^	8
Mushrooms	744	0			0.002 ^	8
Onions	558	0			0.003 - 0.005	8
Orange Juice	330	0			0.002 ^	8
Papaya	366	0			0.008 ^	1
Plums	697	0			0.003 ^	8
Snap Peas	743	52	7	0.002 - 0.087	0.001 - 0.003	8
Summer Squash	186	0			0.003 - 0.010	8
Sweet Bell Peppers	186	2	1.1	0.011 - 0.37	0.010 ^	8
Tangerines	709	1	0.1	0.011 ^	0.010 ^	8
Winter Squash	742	0			0.003 ^	8
TOTAL	**10,801**	**79**				
Malathion oxygen analog (metabolite of Malathion)						
Apple Juice	396	0			0.002 ^	8
Avocado	352	0			0.015 ^	8
Baby Food - Applesauce	396	0			0.010 ^	8
Baby Food - Carrots	792	0			0.006 ^	8
Baby Food - Peaches	777	0			0.002 ^	8
Baby Food - Peas	395	0			0.005 ^	8
Bananas	559	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	8
Cauliflower	737	0			0.003 ^	8
Cherry Tomatoes	744	0			0.002 ^	8
Mushrooms	744	0			0.002 ^	8
Onions	558	0			0.002 - 0.005	8
Orange Juice	330	0			0.002 ^	8
Papaya	366	0			0.002 ^	1
Plums	697	0			0.002 ^	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
Snap Peas	743	0			0.002 - 0.003	8
Summer Squash	186	0			0.002 - 0.005	8
Sweet Bell Peppers	186	0			0.002 ^	8
Tangerines	709	0			0.010 ^	8
Winter Squash	742	0			0.002 ^	8
TOTAL	**10,781**	**0**				
Mandipropamid (fungicide)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Applesauce	396	0			0.005 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.010	NT
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.005 ^	0.6
Cauliflower	737	0			0.005 - 0.015	3
Cherry Tomatoes	744	83	11.2	0.003 - 0.34	0.002 ^	1.0
Mushrooms	744	0			0.002 ^	NT
Onions	558	0			0.003 - 0.005	0.05
Orange Juice	330	0			0.002 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas (V-3)	743	3	0.4	0.008 - 0.030	0.003 - 0.005	NT
Summer Squash	186	0			0.003 - 0.005	0.6
Sweet Bell Peppers	186	0			0.010 ^	1.0
Winter Squash	742	1	0.1	0.018 ^	0.003 ^	0.6
TOTAL	**8,167**	**87**				
Mepanipyrim (fungicide)						
Cherry Tomatoes	744	0			0.10 ^	0.5
TOTAL	**744**	**0**				
Metalaxyl/Mefenoxam[1] (fungicide)						
Apple Juice	396	0			0.001 ^	0.2
Avocado	372	0			0.006 ^	4.0
Baby Food - Applesauce	396	0			0.001 ^	0.2
Baby Food - Carrots	792	1	0.1	0.003 ^	0.002 ^	0.5
Baby Food - Peaches	777	0			0.002 - 0.030	1.0
Baby Food - Peas	395	0			0.025 ^	0.2
Bananas	559	0			0.030 ^	NT
Cantaloupe	372	48	12.9	0.010 - 0.041	0.010 ^	1.0
Cauliflower	589	0			0.004 ^	1.0
Cherry Tomatoes	744	20	2.7	0.002 - 0.026	0.001 ^	1.0
Mushrooms	744	0			0.001 ^	NT
Onions	558	2	0.4	0.007 ^	0.002 - 0.075	3.0
Orange Juice	330	0			0.001 ^	1.0
Papaya	366	0			0.020 ^	0.40
Plums	697	0			0.002 ^	1.0
Snap Peas	697	9	1.3	0.002 - 0.019	0.001 - 0.002	0.2
Summer Squash	186	6	3.2	0.003 - 0.26	0.002 - 0.050	1.0
Sweet Bell Peppers	186	8	4.3	0.030 - 0.13	0.030 ^	1.0
Tangerines	709	0			0.010 ^	1.0
Winter Squash	742	35	4.7	0.003 - 0.026	0.002 ^	1.0
TOTAL	**10,607**	**129**				
Metaldehyde (molluscicide)						
Cantaloupe	331	0			0.010 ^	NT
TOTAL	**331**	**0**				
Metconazole (fungicide)						
Baby Food - Peaches	406	0			0.006 ^	0.20
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	0.20
Snap Peas	372	0			0.006 ^	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**2,590**	**0**				
Methamidophos (insecticide) (also a metabolite of Acephate)						
Apple Juice	396	0			0.005 ^	0.02
Avocado	372	0			0.030 ^	0.02

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Baby Food - Applesauce	396	0			0.010 ^	0.02
Baby Food - Peaches	777	0			0.003 - 0.008	0.02
Baby Food - Peas	395	0			0.10 ^	0.02
Bananas	559	0			0.008 ^	0.02
Cantaloupe	372	0			0.010 ^	0.02
Cauliflower	705	2	0.3	0.004 - 0.007	0.004 ^	0.5 [2]
Cherry Tomatoes	744	2	0.3	0.059 - 0.11	0.010 ^	2.0
Mushrooms	744	0			0.005 ^	0.02
Onions	279	0			0.003 ^	0.02
Orange Juice	330	0			0.005 ^	0.02
Plums	697	0			0.003 ^	0.02
Snap Peas (X-2)	728	7	1	0.002 - 0.070	0.001 - 0.004	0.02
Summer Squash	186	1	0.5	0.005 ^	0.003 - 0.10	0.02
Sweet Bell Peppers	186	11	5.9	0.011 - 0.25	0.008 ^	1 [3]
Tangerines	709	0			0.010 ^	0.02
Winter Squash	742	1	0.1	0.005 ^	0.003 ^	0.02
TOTAL	**9,317**	**24**				
Methidathion (insecticide)						
Apple Juice	396	0			0.010 ^	0.05
Baby Food - Applesauce	396	0			0.010 ^	0.05
Baby Food - Peaches	777	0			0.002 - 0.006	0.05
Bananas	559	0			0.006 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	0.05
Snap Peas	743	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Sweet Bell Peppers	186	0			0.006 ^	NT
Tangerines	709	3	0.4	0.015 - 0.017	0.010 ^	6.0
Winter Squash	742	0			0.002 ^	NT
TOTAL	**6,687**	**3**				
Methidathion oxygen analog (metabolite of Methidathion)						
Cauliflower	737	0			0.003 - 0.010	NT
Snap Peas	371	0			0.003 - 0.010	NT
TOTAL	**1,108**	**0**				
Methiocarb (insecticide) (analyzed as sulfoxide)						
Baby Food - Peaches	406	0			0.006 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**4,070**	**0**				
Methiocarb sulfone (metabolite of Methiocarb)						
Apple Juice	396	0			0.001 ^	NT
TOTAL	**396**	**0**				
Methiocarb sulfoxide (metabolite of Methiocarb)						
Apple Juice	396	0			0.001 ^	NT
TOTAL	**396**	**0**				
Methomyl (insecticide)						
Apple Juice	363	0			0.010 ^	1
Avocado	372	0			0.030 ^	2
Baby Food - Applesauce	396	0			0.010 ^	1
Baby Food - Carrots	792	0			0.004 ^	0.2
Baby Food - Peaches	777	0			0.012 - 0.013	5
Baby Food - Peas	395	0			0.005 ^	5
Bananas	559	0			0.013 ^	NT
Cantaloupe	372	12	3.2	0.010 - 0.059	0.010 ^	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
Cauliflower	737	4	0.5	0.004 - 0.038	0.002 - 0.008	2
Cherry Tomatoes	744	2	0.3	0.003 - 0.004	0.001 ^	1
Mushrooms	744	0			0.010 ^	NT
Onions (V-1)	279	1	0.4	0.052 ^	0.012 ^	NT
Orange Juice	330	0			0.010 ^	2
Plums	697	0			0.012 ^	NT
Snap Peas	743	24	3.2	0.004 - 0.44	0.002 - 0.012	5
Summer Squash	186	7	3.8	0.005 - 0.069	0.005 - 0.012	0.2
Sweet Bell Peppers	186	8	4.3	0.018 - 0.30	0.013 ^	2
Tangerines	709	0			0.010 ^	2
Winter Squash	742	0			0.012 ^	0.2
TOTAL	**10,123**	**58**				
Methoprene (insect growth regulator)						
Baby Food - Peas	395	0			0.20 ^	EX
Cauliflower	737	0			0.050 ^	EX
Snap Peas	356	0			0.015 - 0.050	EX
TOTAL	**1,488**	**0**				
Methoxychlor Total (insecticide)						
Baby Food - Peaches	371	0			0.008 ^	NT
Bananas	559	0			0.008 ^	NT
Cauliflower	737	0			0.003 ^	NT
Snap Peas	371	0			0.001 - 0.006	NT
TOTAL	**2,038**	**0**				
Methoxychlor olefin (metabolite of Methoxychlor)						
Cauliflower	721	0			0.003 ^	NT
Snap Peas	356	0			0.001 ^	NT
TOTAL	**1,077**	**0**				
Methoxychlor p,p' (isomer of Methoxychlor)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.009 - 0.010	NT
Onions	279	0			0.009 ^	NT
Plums	697	0			0.009 - 0.010	NT
Snap Peas	372	0			0.009 - 0.010	NT
Summer Squash	94	0			0.009 ^	NT
Tangerines	670	0			0.010 ^	NT
Winter Squash	742	0			0.009 ^	NT
TOTAL	**3,656**	**0**				
Methoxyfenozide (insecticide)						
Apple Juice	396	0			0.003 ^	1.5
Avocado	372	0			0.006 ^	0.6
Baby Food - Applesauce	396	0			0.010 ^	1.5
Baby Food - Carrots	792	0			0.004 ^	0.5
Baby Food - Peaches	777	13	1.7	0.005 - 0.010	0.003 - 0.006	3.0
Baby Food - Peas	395	0			0.010 ^	0.2
Bananas	559	0			0.006 ^	NT
Cantaloupe	372	0			0.010 ^	0.3
Cauliflower	737	1	0.1	0.002 ^	0.001 ^	7.0
Cherry Tomatoes	744	3	0.4	0.033 - 0.072	0.020 ^	2.0
Mushrooms	744	0			0.003 ^	NT
Onions	558	0			0.003 - 0.010	NT
Orange Juice	330	0			0.003 ^	10
Papaya	366	0			0.016 ^	0.6
Plums	697	118	16.9	0.005 - 0.090	0.003 ^	0.30
Snap Peas	743	5	0.7	0.005 - 0.13	0.001 - 0.003	1.5
Summer Squash	186	1	0.5	0.010 ^	0.003 - 0.010	0.3
Sweet Bell Peppers	186	15	8.1	0.006 - 0.055	0.006 ^	2.0
Tangerines	709	0			0.010 ^	10
Winter Squash	742	10	1.3	0.005 - 0.027	0.003 ^	0.3
TOTAL	**10,801**	**166**				
Metolachlor (herbicide)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Applesauce	396	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 - Carrots	792	0			0.003 ^	0.40
Baby Food - Peaches	777	0			0.003 - 0.007	NT
Baby Food - Peas	395	0			0.005 ^	0.30
Bananas	559	0			0.007 ^	NT
Cantaloupe	372	0			0.010 ^	0.10
Cauliflower	737	0			0.001 ^	0.60
Cherry Tomatoes	744	0			0.001 ^	0.10
Mushrooms	744	0			0.001 ^	NT
Onions	558	0			0.003 - 0.015	0.10
Orange Juice	330	0			0.001 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	0.30
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.001 ^	0.10
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	0.10
TOTAL	**9,971**	**0**				
Metribuzin (herbicide)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Carrots	792	0			0.005 ^	0.3
Baby Food - Peaches	777	0			0.003 - 0.004	NT
Baby Food - Peas	395	0			0.20 ^	0.1
Bananas	559	0			0.004 ^	NT
Cauliflower	737	0			0.005 ^	NT
Cherry Tomatoes	744	0			0.002 ^	0.1
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.005 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	2	0.3	0.003 - 0.005	0.002 - 0.003	0.1
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**8,029**	**2**				
Mevinphos (insecticide)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.006	NT
Baby Food - Peas	395	0			0.020 ^	0.25
Bananas	559	0			0.006 ^	NT
Cantaloupe	372	0			0.010 ^	0.5
Cauliflower	356	0			0.010 ^	1.0
Cherry Tomatoes	744	0			0.008 ^	0.2
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 - 0.005	0.25
Summer Squash	94	0			0.002 ^	0.25
Sweet Bell Peppers	186	0			0.006 ^	0.25
Tangerines	686	0			0.010 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**8,496**	**0**				
MGK-264 (insecticide)						
Avocado	372	0			0.009 ^	5
Baby Food - Peaches	777	0			0.003 - 0.030	5
Baby Food - Peas	395	0			0.040 ^	5
Bananas	559	0			0.030 ^	5
Onions	558	0			0.003 - 0.070	5
Papaya	366	0			0.040 ^	5
Plums	697	0			0.003 ^	5
Snap Peas	372	0			0.003 ^	5
Summer Squash	186	0			0.003 - 0.040	5
Winter Squash	742	0			0.003 ^	5
TOTAL	**5,024**	**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
Monocrotophos (insecticide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.003	NT
Bananas	559	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.002 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**5,183**	**0**				
Myclobutanil (fungicide)						
Apple Juice	396	0			0.003 ^	0.5
Baby Food - Applesauce	396	3	0.8	0.002 ^	0.001 ^	0.5
Baby Food - Carrots	792	0			0.015 ^	0.03
Baby Food - Peaches	777	16	2.1	0.001 - 0.005	0.001 - 0.006	2.0
Baby Food - Peas	395	1	0.3	0.015 ^	0.010 ^	0.03
Bananas	559	72	12.9	0.001 - 0.098	0.001 ^	4.0
Cantaloupe	372	0			0.010 ^	0.20
Cauliflower	737	0			0.003 ^	0.03
Cherry Tomatoes	744	93	12.5	0.003 - 0.15	0.002 ^	0.30
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.003 ^	NT
Papaya	366	0			0.010 ^	3.0
Plums	697	22	3.2	0.010 - 0.045	0.006 ^	2.0
Snap Peas	743	2	0.3	0.004 - 0.010	0.001 - 0.006	0.03
Summer Squash	186	2	1.1	0.010 - 0.037	0.006 - 0.020	0.20
Sweet Bell Peppers	186	30	16.1	0.001 - 0.33	0.001 ^	4.0
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	13	1.8	0.010 - 0.024	0.006 ^	0.20
TOTAL	**10,150**	**254**				
Naled (insecticide)						
Apple Juice	396	0			0.020 ^	0.5
Baby Food - Peas	66	0			0.50 ^	0.5
Mushrooms	744	0			0.020 ^	0.5
Orange Juice	330	0			0.020 ^	3
TOTAL	**1,536**	**0**				
1-Naphthol (metabolite of Carbaryl)						
Apple Juice	396	1	0.3	0.020 ^	0.015 ^	12
Baby Food - Carrots	792	0			0.099 ^	2.0
Baby Food - Peas	395	0			0.010 ^	10
Cherry Tomatoes	744	1	0.1	0.028 ^	0.017 ^	5.0
Mushrooms	744	0			0.015 ^	NT
Orange Juice	330	0			0.015 ^	10
Summer Squash	92	0			0.020 ^	3.0
TOTAL	**3,493**	**2**				
Napropamide (herbicide)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.008 - 0.020	NT
Bananas	559	0			0.020 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 - 0.010	0.1
Cherry Tomatoes	744	0			0.002 ^	0.1
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.008 ^	NT
Orange Juice	330	0			0.005 ^	NT
Plums	697	0			0.008 ^	NT
Snap Peas	743	0			0.002 - 0.008	NT
Summer Squash	94	0			0.008 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Sweet Bell Peppers	186	0			0.010 ^	0.1
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.008 ^	NT
TOTAL	**8,505**	**0**				
Norflurazon (herbicide)						
Apple Juice	396	0			0.002 ^	0.1
Avocado	372	0			0.009 ^	0.20
Baby Food - Applesauce	396	0			0.010 ^	0.1
Baby Food - Peaches	777	0			0.005 - 0.006	0.1
Bananas	559	0			0.005 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	597	0			0.015 - 0.060	NT
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.002 ^	0.2
Plums	697	0			0.006 ^	0.1
Snap Peas	663	0			0.005 - 0.030	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.005 ^	NT
Tangerines	709	0			0.010 ^	0.2
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,913**	**0**				
Norflurazon desmethyl (metabolite of Norflurazon)						
Apple Juice	396	0			0.005 ^	0.1
Baby Food - Applesauce	396	0			0.010 ^	0.1
Baby Food - Peaches	777	0			0.006 - 0.008	0.1
Bananas	559	0			0.008 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	707	0			0.018 - 0.24	NT
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.005 ^	0.2
Plums	697	0			0.006 ^	0.1
Snap Peas	728	0			0.006 - 0.12	NT
Summer Squash (V-1)	94	1	1.1	0.010 ^	0.006 ^	NT
Sweet Bell Peppers	186	0			0.008 ^	NT
Tangerines	709	0			0.010 ^	0.2
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,716**	**1**				
Novaluron (insecticide)						
Avocado	372	0			0.22 ^	0.01
Baby Food - Applesauce	396	0			0.010 ^	2.0
Baby Food - Peaches	406	0			0.048 ^	1.9
Baby Food - Peas	395	0			0.050 ^	0.01
Cantaloupe	372	0			0.010 ^	0.15
Cherry Tomatoes	744	1	0.1	0.020 ^	0.012 ^	1.0
Onions	279	0			0.048 ^	0.01
Plums	697	0			0.048 ^	1.9
Snap Peas	372	0			0.048 ^	0.01
Summer Squash	186	0			0.048 - 0.050	0.15
Tangerines	709	0			0.010 ^	0.01
Winter Squash	742	0			0.048 ^	0.15
TOTAL	**5,670**	**1**				
Omethoate (insecticide) (also a metabolite of Dimethoate)						
Apple Juice	396	0			0.020 ^	NT
Avocado	372	0			0.015 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.008	NT
Baby Food - Peas	395	0			0.015 ^	2.0
Bananas	559	0			0.008 ^	NT
Cantaloupe	372	1	0.3	0.010 ^	0.010 ^	1.0
Cauliflower	737	1	0.1	0.004 ^	0.002 ^	2.0
Cherry Tomatoes	743	16	2.2	0.007 - 0.086	0.002 ^	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
Mushrooms	744	0			0.020 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.020 ^	2.0
Plums (V-1)	697	1	0.1	0.005 ^	0.003 ^	NT
Snap Peas	743	133	17.9	0.005 - 0.32	0.003 - 0.008	2.0
Summer Squash	186	0			0.003 - 0.015	NT
Sweet Bell Peppers	186	10	5.4	0.009 - 0.063	0.008 ^	2.0
Tangerines	709	0			0.010 ^	2.0
Winter Squash	742	0			0.003 ^	NT
TOTAL	**9,363**	**162**				
Oryzalin (herbicide)						
Apple Juice	396	0			0.020 ^	0.05
Baby Food - Applesauce	396	0			0.020 ^	0.05
Baby Food - Peaches	371	0			0.030 ^	0.05
Bananas	559	0			0.030 ^	NT
Cantaloupe	372	0			0.020 ^	NT
Papaya	366	0			0.16 ^	0.05
Tangerines	709	0			0.020 ^	0.05
TOTAL	**3,169**	**0**				
Oxadixyl (fungicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.006 ^	NT
Cauliflower	726	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.003 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**4,792**	**0**				
Oxamyl (insecticide)						
Apple Juice	396	0			0.003 ^	2
Baby Food - Applesauce	396	0			0.010 ^	2
Baby Food - Carrots	792	0			0.025 ^	0.1
Baby Food - Peaches	777	0			0.006 - 0.008	NT
Bananas	559	0			0.008 ^	0.3
Cantaloupe	372	5	1.3	0.011 - 0.033	0.010 ^	2.0
Cauliflower	737	0			0.006 ^	NT
Cherry Tomatoes	744	0			0.029 ^	2
Mushrooms	744	0			0.003 ^	NT
Onions	558	6	1.1	0.010 - 0.015	0.006 - 0.010	0.2
Orange Juice	330	0			0.003 ^	3
Plums	697	0			0.006 ^	NT
Snap Peas (V-2)	743	2	0.3	0.003 - 0.009	0.002 - 0.006	NT
Summer Squash	186	12	6.5	0.013 - 0.82	0.006 - 0.010	2.0
Sweet Bell Peppers	186	20	10.8	0.008 - 0.40	0.008 ^	2.0
Tangerines	709	0			0.010 ^	3
Winter Squash	742	1	0.1	0.087 ^	0.006 ^	2.0
TOTAL	**9,668**	**46**				
Oxamyl oxime (metabolite of Oxamyl)						
Apple Juice	396	0			0.003 ^	2
Baby Food - Applesauce	396	0			0.010 ^	2
Baby Food - Peaches	777	0			0.012 - 0.020	NT
Bananas	559	4	0.7	0.020 - 0.031	0.020 ^	0.3
Cantaloupe	372	50	13.4	0.010 - 0.24	0.010 ^	2.0
Mushrooms	744	0			0.003 ^	NT
Onions	558	0			0.012 - 0.060	0.2
Orange Juice	330	0			0.003 ^	3
Plums	697	0			0.012 ^	NT
Snap Peas	372	0			0.012 ^	NT
Summer Squash	186	10	5.4	0.020 - 0.23	0.012 - 0.060	2.0
Sweet Bell Peppers	186	69	37.1	0.021 - 0.55	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
Tangerines	709	0			0.010 ^	3
Winter Squash	742	3	0.4	0.020 - 0.062	0.012 ^	2.0
TOTAL	**7,024**	**136**				
Oxydemeton methyl (insecticide)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	371	0			0.005 ^	NT
Bananas	559	0			0.005 ^	NT
Cantaloupe	372	0			0.010 ^	0.2
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.010 ^	0.05
Orange Juice	330	0			0.002 ^	1.0
Summer Squash	92	0			0.010 ^	1.0
Sweet Bell Peppers	186	0			0.005 ^	0.75
Tangerines	709	0			0.010 ^	NT
TOTAL	**4,434**	**0**				
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)						
Apple Juice	396	0			0.002 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Cantaloupe	372	0			0.010 ^	0.2
Cauliflower	737	0			0.012 ^	1.0
Mushrooms	744	0			0.002 ^	NT
Onions	558	0			0.003 - 0.010	0.05
Orange Juice	330	0			0.002 ^	1.0
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 - 0.012	NT
Summer Squash	186	0			0.003 - 0.010	1.0
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	1	0.1	0.005 ^	0.003 ^	0.3
TOTAL	**7,016**	**1**				
Oxyfluorfen (herbicide)						
Apple Juice	396	0			0.050 ^	0.05
Avocado	372	0			0.003 ^	0.05
Baby Food - Applesauce	396	0			0.001 - 0.005	0.05
Baby Food - Peaches	406	0			0.008 ^	0.05
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	723	0			0.003 ^	0.05
Onions	558	0			0.008 - 0.015	0.05
Papaya	366	0			0.030 ^	0.05
Plums	697	0			0.008 ^	0.05
Snap Peas	743	0			0.001 - 0.008	NT
Summer Squash	94	0			0.008 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.008 ^	NT
TOTAL	**6,574**	**0**				
Paclobutrazol (plant growth regulator)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
TOTAL	**792**	**0**				
Parathion (insecticide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.059	NT
Bananas	559	0			0.059 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.010 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,291**	**0**				
Parathion methyl (insecticide)						
Apple Juice	396	0			0.010 ^	NT [4]
Baby Food - Applesauce	396	0			0.001 - 0.005	NT [4]
Baby Food - Peaches	777	0			0.009 - 0.016	NT [4]
Bananas	559	0			0.016 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.016 ^	NT [4]
Mushrooms	744	0			0.010 ^	NT
Onions	558	0			0.009 - 0.18	1.0
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.009 ^	NT [4]
Snap Peas	743	4	0.5	0.004 - 0.015	0.002 - 0.009	1.0
Summer Squash	94	0			0.009 ^	NT
Sweet Bell Peppers	186	0			0.030 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.009 ^	NT
TOTAL	**8,040**	**4**				
Parathion methyl oxygen analog (metabolite of Parathion methyl)						
Apple Juice	396	0			0.020 ^	NT [4]
Baby Food - Peaches	406	0			0.006 ^	NT [4]
Cauliflower	737	0			0.005 ^	NT [4]
Mushrooms	744	0			0.020 ^	NT
Onions	279	0			0.006 ^	1.0
Orange Juice	330	0			0.020 ^	NT
Plums	697	0			0.006 ^	NT [4]
Snap Peas	743	0			0.005 - 0.006	1.0
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**5,168**	**0**				
Parathion oxygen analog (metabolite of Parathion)						
Baby Food - Peaches	406	0			0.006 ^	NT
Cauliflower	737	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.003 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**3,698**	**0**				
Pebulate (herbicide)						
Baby Food - Applesauce	396	0			0.001 - 0.005	NT
Cantaloupe	372	0			0.010 ^	NT
Tangerines	691	0			0.010 ^	NT
TOTAL	**1,459**	**0**				
Penconazole (fungicide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
TOTAL	**396**	**0**				
Pencycuron (fungicide)						
Baby Food - Applesauce	395	0			0.010 ^	NT
TOTAL	**395**	**0**				
Pendimethalin (herbicide)						
Apple Juice	396	0			0.10 ^	0.10
Baby Food - Applesauce	396	0			0.001 ^	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
Baby Food - Carrots	792	0			0.050 ^	0.5
Baby Food - Peaches	777	0			0.006 - 0.032	0.10
Baby Food - Peas	395	0			0.040 ^	0.10
Bananas	559	0			0.032 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 ^	0.1
Cherry Tomatoes	744	0			0.007 ^	0.10
Mushrooms	713	0			0.10 ^	NT
Onions	558	0			0.006 - 0.060	0.1
Orange Juice	330	0			0.10 ^	0.1
Plums	697	1	0.1	0.010 ^	0.006 ^	0.10
Snap Peas	743	0			0.001 - 0.006	0.10
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.015 ^	0.10
Tangerines	709	0			0.010 ^	0.1
Winter Squash (V-1)	742	1	0.1	0.010 ^	0.006 ^	NT
TOTAL	**9,940**	**2**				
Pentachloroaniline - PCA (metabolite of Quintozene)						
Apple Juice	396	0			0.004 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 ^	0.1
Cherry Tomatoes	744	1	0.1	0.006 ^	0.003 ^	0.1
Mushrooms	744	0			0.002 - 0.004	NT
Orange Juice	330	0			0.002 - 0.004	NT
Snap Peas	371	0			0.001 ^	NT
Summer Squash	92	0			0.12 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**4,891**	**1**				
Pentachlorobenzene - PCB (metabolite of Quintozene)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	721	0			0.008 - 0.030	0.1
Cherry Tomatoes	744	0			0.003 ^	0.1
Mushrooms	744	0			0.002 - 0.005	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.002 - 0.005	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 - 0.015	NT
Summer Squash	171	0			0.002 - 0.010	NT
Tangerines	691	0			0.010 ^	NT
Winter Squash (V-1)	742	1	0.1	0.010 ^	0.002 ^	NT
TOTAL	**7,432**	**1**				
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)						
Apple Juice	396	0			0.005 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	356	0			0.006 ^	0.1
Cherry Tomatoes	744	0			0.004 ^	0.1
Mushrooms	744	0			0.001 - 0.005	NT
Orange Juice	330	0			0.001 - 0.005	NT
Snap Peas	371	0			0.001 - 0.003	NT
Summer Squash	92	0			0.050 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**4,510**	**0**				
Penthiopyrad (fungicide)						
Summer Squash	92	0			0.005 - 0.040	0.60
TOTAL	**92**	**0**				
Permethrin Total (insecticide)						
Avocado	352	0			0.006 ^	1.0
Baby Food - Applesauce	396	0			0.002 ^	0.05

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Baby Food - Peas	395	0			0.040 ^	NT
Cantaloupe	372	0			0.020 ^	1.5
Onions	279	0			0.10 ^	0.10
Papaya	366	0			0.25 ^	1.0
Summer Squash	92	0			0.040 ^	1.5
Tangerines	689	0			0.020 ^	NT
TOTAL	**2,941**	**0**				
Permethrin cis (isomer of Permethrin)						
Apple Juice	396	0			0.010 ^	0.05
Baby Food - Carrots	792	0			0.004 ^	NT
Baby Food - Peaches	777	107	13.8	0.010 - 0.019	0.006 - 0.010	1.0
Bananas	559	0			0.010 ^	NT
Cauliflower	737	0			0.001 - 0.003	0.5
Cherry Tomatoes	744	8	1.1	0.007 - 0.11	0.004 ^	2.0
Mushrooms	744	23	3.1	0.011 - 0.44	0.010 ^	5.0
Onions	279	0			0.006 ^	0.10
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas (V-21)	743	21	2.8	0.002 - 0.057	0.001 - 0.006	NT
Summer Squash	94	2	2.1	0.010 ^	0.006 ^	1.5
Sweet Bell Peppers	186	26	14	0.004 - 0.10	0.003 ^	0.50
Winter Squash	742	11	1.5	0.010 - 0.050	0.006 ^	1.5
TOTAL	**7,820**	**198**				
Permethrin trans (isomer of Permethrin)						
Apple Juice	396	0			0.010 ^	0.05
Baby Food - Carrots	792	0			0.004 ^	NT
Baby Food - Peaches	777	209	26.9	0.010 - 0.027	0.006 - 0.010	1.0
Bananas	559	0			0.010 ^	NT
Cauliflower	737	0			0.001 - 0.004	0.5
Cherry Tomatoes	744	6	0.8	0.012 - 0.042	0.007 ^	2.0
Mushrooms	744	21	2.8	0.010 - 0.59	0.010 ^	5.0
Onions	279	0			0.006 ^	0.10
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas (V-15)	728	15	2.1	0.002 - 0.040	0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	1.5
Sweet Bell Peppers	186	27	14.5	0.003 - 0.14	0.003 ^	0.50
Winter Squash	742	5	0.7	0.010 - 0.076	0.006 ^	1.5
TOTAL	**7,805**	**283**				
Phenothrin (insecticide)						
Apple Juice	396	0			0.050 ^	0.01
Baby Food - Applesauce	396	0			0.005 ^	0.01
Baby Food - Carrots	792	0			0.008 ^	0.01
Baby Food - Peaches	777	0			0.003 - 0.018	0.01
Baby Food - Peas	395	0			0.015 ^	0.01
Bananas	559	0			0.018 ^	0.01
Cantaloupe	372	0			0.010 ^	0.01
Cauliflower	721	0			0.008 ^	0.01
Cherry Tomatoes	744	0			0.007 ^	0.01
Mushrooms	744	0			0.050 - 0.10	0.01
Onions	558	0			0.003 - 0.080	0.01
Orange Juice	330	0			0.050 - 0.10	0.01
Papaya	366	0			0.14 ^	0.01
Plums	697	0			0.003 ^	0.01
Snap Peas	728	0			0.002 - 0.003	0.01
Summer Squash	186	0			0.003 - 0.030	0.01
Sweet Bell Peppers	186	0			0.025 ^	0.01
Tangerines	672	0			0.010 ^	0.01
Winter Squash	742	0			0.003 ^	0.01
TOTAL	**10,361**	**0**				
Phenthoate (insecticide)						
Cauliflower	737	0			0.001 ^	NT
Snap Peas	371	0			0.001 ^	NT
TOTAL	**1,108**	**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
o-Phenylphenol (fungicide)						
Apple Juice	396	2	0.5	0.006 ^	0.005 ^	25
Baby Food - Carrots	82	0			0.030 - 0.10	20
Baby Food - Peaches	710	0			0.003 - 0.10	20
Mushrooms (V-28)	744	28	3.8	0.005 - 0.073	0.005 - 0.010	NT
Onions	185	0			0.003 ^	NT
Orange Juice	330	3	0.9	0.006 - 0.089	0.005 - 0.010	10
Plums	666	5	0.8	0.005 - 0.021	0.003 ^	20
Snap Peas	62	0			0.003 ^	NT
Sweet Bell Peppers	186	2	1.1	0.013 - 0.040	0.010 ^	10
Winter Squash	123	0			0.003 ^	NT
TOTAL	**3,484**	**40**				
Phorate (insecticide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.041	NT
Bananas	559	0			0.041 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	356	0			0.002 ^	NT
Mushrooms	744	0			0.010 - 0.020	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.020 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.002 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	691	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**7,176**	**0**				
Phorate oxygen analog (metabolite of Phorate)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Cauliflower	737	0			0.001 ^	NT
Mushrooms	744	0			0.010 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**5,168**	**0**				
Phorate oxygen analog sulfone (metabolite of Phorate)						
Baby Food - Peaches	371	0			0.005 ^	NT
Bananas	559	0			0.005 - 0.010	NT
TOTAL	**930**	**0**				
Phorate oxygen analog sulfoxide (metabolite of Phorate)						
Baby Food - Peaches	371	0			0.001 - 0.002	NT
Bananas	559	0			0.001 ^	NT
TOTAL	**930**	**0**				
Phorate sulfone (metabolite of Phorate)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.030	NT
Bananas	559	0			0.030 ^	NT
Cantaloupe	372	0			0.020 ^	NT
Cauliflower	737	0			0.003 ^	NT
Mushrooms	744	0			0.010 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,470**	**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
Phorate sulfoxide (metabolite of Phorate)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.002 - 0.003	NT
Bananas	559	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Mushrooms	744	0			0.010 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas (V-1)	743	1	0.1	0.003 ^	0.002 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**7,575**	**1**				
Phosalone (insecticide)						
Apple Juice	396	2	0.5	0.003 - 0.004	0.001 ^	10.0
Baby Food - Applesauce	396	1	0.3	0.002 ^	0.001 ^	10.0
Baby Food - Peaches	777	0			0.003 - 0.026	15.0
Bananas	559	0			0.026 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	15.0
Snap Peas	743	0			0.002 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.026 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,687**	**3**				
Phosmet (insecticide)						
Apple Juice	396	1	0.3	0.011 ^	0.010 ^	10
Avocado	372	0			0.009 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	10
Baby Food - Carrots	792	0			0.010 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.049	10
Baby Food - Peas	395	0			0.12 ^	1
Bananas	559	0			0.049 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Mushrooms	744	0			0.010 ^	NT
Onions	558	0			0.003 - 0.15	NT
Orange Juice	330	0			0.010 ^	5
Papaya	366	0			0.040 ^	NT
Plums	697	39	5.6	0.005 - 0.042	0.003 ^	5
Snap Peas	728	0			0.001 - 0.004	1
Summer Squash	186	0			0.003 - 0.12	NT
Sweet Bell Peppers	186	0			0.049 ^	NT
Tangerines	545	0			0.010 ^	5
Winter Squash	742	0			0.003 ^	NT
TOTAL	**9,141**	**40**				
Phosmet oxygen analog (metabolite of Phosmet)						
Avocado	372	0			0.015 ^	NT
Baby Food - Carrots	792	0			0.002 ^	NT
Baby Food - Peaches	371	0			0.006 ^	10
Baby Food - Peas	395	0			0.010 ^	1
Bananas	559	0			0.006 ^	NT
Cherry Tomatoes	744	0			0.002 ^	NT
Mushrooms	62	0			0.020 ^	NT
Onions	279	0			0.010 ^	NT
Papaya	366	0			0.010 ^	NT
Summer Squash	92	0			0.010 ^	NT
Sweet Bell Peppers	186	0			0.006 ^	NT
TOTAL	**4,218**	**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 - Applesauce	396	0			0.010 ^	1.0
Baby Food - Peaches	406	0			0.003 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**5,175**	**0**				
Piperonyl butoxide (insecticide)						
Apple Juice	396	0			0.005 ^	8
Avocado	372	0			0.009 ^	10
Baby Food - Applesauce	396	0			0.001 ^	8
Baby Food - Carrots	792	0			0.013 ^	10
Baby Food - Peaches	777	0			0.003 - 0.013	8
Baby Food - Peas	395	0			0.010 ^	8
Bananas	559	0			0.013 ^	10
Cantaloupe	372	0			0.010 ^	8
Cauliflower	737	0			0.015 ^	10
Cherry Tomatoes	744	5	0.7	0.007 - 0.45	0.004 ^	8
Mushrooms	744	40	5.4	0.006 - 1.8	0.005 - 0.010	10
Onions	558	0			0.003 - 0.075	10
Orange Juice	330	0			0.005 - 0.010	8
Papaya	366	0			0.030 ^	10
Plums	697	0			0.003 ^	8
Snap Peas	743	23	3.1	0.005 - 0.031	0.003 - 0.005	8
Summer Squash	186	0			0.003 - 0.030	10
Sweet Bell Peppers	186	8	4.3	0.002 - 0.013	0.001 ^	10
Tangerines	709	0			0.010 ^	10
Winter Squash	742	2	0.3	0.005 - 0.010	0.003 ^	10
TOTAL	**10,801**	**78**				
Pirimicarb (insecticide)						
Baby Food - Applesauce	396	0			0.005 ^	NT
Baby Food - Peaches	406	0			0.006 ^	NT
Cantaloupe	372	0			0.005 ^	NT
Cauliflower	723	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Plums (V-2)	697	2	0.3	0.010 ^	0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Tangerines (V-1)	709	1	0.1	0.008 ^	0.005 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**5,161**	**3**				
Pirimicarb desmethyl (insecticide metabolite)						
Baby Food - Applesauce	396	0			0.010 ^	NT
TOTAL	**396**	**0**				
Pirimiphos methyl (insecticide)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 ^	NT
Mushrooms	744	0			0.001 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.001 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,645**	**0**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Prallethrin (insecticide)						
Avocado	372	0			0.003 ^	1.0
Baby Food - Peaches	777	0			0.012 - 0.10	1.0
Baby Food - Peas	395	0			0.10 ^	1.0
Bananas	559	0			0.10 ^	1.0
Cherry Tomatoes	744	0			0.030 ^	1.0
Mushrooms	62	0			0.002 ^	1.0
Onions	558	0			0.012 - 0.050	1.0
Orange Juice	66	0			0.002 ^	1.0
Papaya	366	0			0.050 ^	1.0
Plums	697	0			0.012 ^	1.0
Snap Peas	372	0			0.012 ^	1.0
Summer Squash	186	0			0.012 - 0.10	1.0
Sweet Bell Peppers	186	0			0.050 ^	1.0
Winter Squash	742	0			0.012 ^	1.0
TOTAL	**6,082**	**0**				
Prochloraz (fungicide)						
Baby Food - Applesauce	395	0			0.001 - 0.005	NT
Cantaloupe	372	0			0.010 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**1,476**	**0**				
Procymidone (fungicide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	371	0			0.010 ^	NT
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Sweet Bell Peppers	186	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**2,593**	**0**				
Profenofos (insecticide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 ^	NT
Snap Peas (V-25)	371	25	6.7	0.003 - 0.056	0.002 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**2,585**	**25**				
Promecarb (insecticide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,590**	**0**				
Prometryn (herbicide)						
Baby Food - Carrots	792	0			0.001 ^	0.45
Baby Food - Peaches	406	0			0.005 ^	NT
Cauliflower	737	0			0.001 ^	NT
Onions	279	0			0.005 ^	NT
Plums	697	0			0.005 ^	NT
Snap Peas (V-2)	743	2	0.3	0.002 - 0.018	0.001 - 0.005	NT
Summer Squash	94	0			0.005 ^	NT
Winter Squash	742	0			0.005 ^	NT
TOTAL	**4,490**	**2**				
Pronamide (herbicide)						
Apple Juice	396	0			0.002 ^	0.1
Baby Food - Applesauce	396	0			0.001 ^	0.1
Baby Food - Peaches	777	0			0.002 - 0.012	0.1
Baby Food - Peas	395	0			0.005 ^	0.05
Bananas	559	0			0.012 ^	NT
Cantaloupe	372	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
Cauliflower	737	0			0.001 ^	NT
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.002 ^	NT
Plums	697	0			0.002 ^	0.1
Snap Peas	728	0			0.001 - 0.002	0.05
Summer Squash	94	0			0.002 ^	NT
Sweet Bell Peppers	186	0			0.010 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**8,141**	**0**				
Propachlor (herbicide)						
Cauliflower	737	0			0.003 ^	NT
Snap Peas	371	0			0.001 - 0.003	NT
TOTAL	**1,108**	**0**				
Propamocarb hydrochloride [5] (fungicide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.006 ^	NT
Cantaloupe	372	0			0.010 ^	1.5
Cherry Tomatoes	744	53	7.1	0.003 - 0.54	0.002 ^	2.0
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.003 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas (V-12)	372	12	3.2	0.010 - 1.6	0.006 ^	NT
Summer Squash	186	16	8.6	0.008 - 0.43	0.005 - 0.006	1.5
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	84	11.3	0.010 - 1.5	0.006 ^	1.5
TOTAL	**6,373**	**165**				
Propargite (insecticide)						
Apple Juice	396	0			0.050 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.018	NT
Bananas	559	0			0.018 ^	NT
Cantaloupe	372	0			0.040 ^	NT
Cauliflower	737	0			0.020 ^	NT
Mushrooms	744	0			0.025 - 0.050	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.025 - 0.050	10.0
Plums (V-3)	697	3	0.4	0.005 ^	0.003 ^	NT
Snap Peas	743	0			0.003 - 0.020	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.015 ^	NT
Tangerines	709	0			0.040 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**7,365**	**3**				
Propetamphos (insecticide)						
Apple Juice	396	0			0.010 ^	0.1
Avocado	372	0			0.038 ^	0.1
Baby Food - Applesauce	396	0			0.010 ^	0.1
Baby Food - Carrots	792	0			0.004 ^	0.1
Baby Food - Peaches	777	0			0.003 - 0.010	0.1
Baby Food - Peas	395	0			0.050 ^	0.1
Bananas	559	0			0.010 ^	0.1
Cantaloupe	372	0			0.010 ^	0.1
Cauliflower	737	0			0.002 ^	0.1
Mushrooms	744	0			0.010 ^	0.1
Onions	558	0			0.003 - 0.030	0.1
Orange Juice	330	0			0.010 ^	0.1
Papaya	366	0			0.016 ^	0.1
Plums	697	0			0.003 ^	0.1
Snap Peas	743	0			0.002 - 0.003	0.1
Summer Squash	186	0			0.003 - 0.050	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
Sweet Bell Peppers	186	0			0.010 ^	0.1
Tangerines	709	0			0.010 ^	0.1
Winter Squash	742	0			0.003 ^	0.1
TOTAL	**10,057**	**0**				
Propham (herbicide)						
Baby Food - Peaches	406	0			0.005 ^	NT
Onions	279	0			0.005 ^	NT
Plums	697	0			0.005 ^	NT
Snap Peas	372	0			0.005 ^	NT
Summer Squash	94	0			0.005 ^	NT
Winter Squash	742	0			0.005 ^	NT
TOTAL	**2,590**	**0**				
Propiconazole (fungicide)						
Apple Juice	396	0			0.010 ^	NT
Avocado	372	0			0.045 ^	10
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Carrots	792	0			0.007 ^	0.25
Baby Food - Peaches	777	53	6.8	0.010 ^	0.006 - 0.018	4.0
Bananas	559	0			0.018 ^	0.2
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.008 ^	NT
Mushrooms	744	0			0.010 ^	0.1
Onions	558	0			0.006 - 0.15	0.2
Orange Juice	330	0			0.010 ^	8.0
Plums	696	43	6.2	0.010 - 0.22	0.006 ^	0.60
Snap Peas	743	0			0.006 - 0.008	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.018 ^	NT
Tangerines	709	0			0.010 ^	8.0
Winter Squash (V-1)	742	1	0.1	0.010 ^	0.006 ^	NT
TOTAL	**9,203**	**97**				
Propoxur (insecticide)						
Apple Juice	363	0			0.003 ^	NT
Mushrooms (V-4)	682	4	0.6	0.004 - 0.005	0.003 ^	NT
Orange Juice	330	0			0.003 ^	NT
TOTAL	**1,375**	**4**				
Prothioconazole (fungicide)						
Baby Food - Peas	373	0			0.50 ^	NT
TOTAL	**373**	**0**				
Prothiofos (insecticide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
TOTAL	**792**	**0**				
Pymetrozine (insecticide)						
Baby Food - Peaches	777	0			0.002 - 0.007	NT
Bananas	559	0			0.007 ^	NT
Cantaloupe	372	0			0.010 ^	0.1
Cauliflower	737	0			0.005 ^	0.5
Cherry Tomatoes	738	25	3.4	0.008 - 0.085	0.005 - 0.017	0.2
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 - 0.005	NT
Summer Squash	94	0			0.002 ^	0.1
Sweet Bell Peppers	186	1	0.5	0.042 ^	0.007 ^	0.2
Winter Squash	742	5	0.7	0.003 - 0.007	0.002 ^	0.1
TOTAL	**5,924**	**31**				
Pyraclostrobin (fungicide)						
Apple Juice	396	0			0.003 ^	1.5
Avocado	372	0			0.023 ^	0.6
Baby Food - Applesauce	396	0			0.003 ^	1.5

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 - Carrots	792	0			0.001 ^	0.4
Baby Food - Peaches	777	0			0.001 - 0.002	2.5
Baby Food - Peas	395	0			0.005 ^	0.2
Bananas	559	0			0.001 ^	0.04
Cantaloupe	372	0			0.003 ^	0.5
Cauliflower	737	0			0.004 ^	5.0
Cherry Tomatoes	744	170	22.8	0.002 - 0.20	0.001 ^	1.4
Mushrooms	744	0			0.003 ^	NT
Onions	558	0			0.002 - 0.005	0.9
Orange Juice	330	0			0.003 ^	2.0
Papaya	366	2	0.5	0.002 ^	0.002 ^	0.6
Plums	697	10	1.4	0.003 - 0.015	0.002 ^	2.5
Snap Peas	743	19	2.6	0.002 - 0.11	0.001 - 0.002	0.5
Summer Squash	186	12	6.5	0.003 - 0.038	0.002 - 0.005	0.5
Sweet Bell Peppers	186	42	22.6	0.001 - 0.088	0.001 ^	1.4
Tangerines	709	0			0.003 ^	2.0
Winter Squash	742	57	7.7	0.003 - 0.017	0.002 ^	0.5
TOTAL	**10,801**	**312**				
Pyraflufen ethyl (herbicide)						
Apple Juice	396	0			0.010 ^	0.01
Baby Food - Peaches	406	0			0.002 ^	0.01
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	0.01
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**2,986**	**0**				
Pyrazophos (fungicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
TOTAL	**396**	**0**				
Pyrethrins (insecticide)						
Avocado	372	0			0.045 ^	1.0
Baby Food - Carrots	792	0			0.12 ^	1.0
Baby Food - Peaches	371	0			0.20 ^	1.0
Bananas	559	0			0.20 ^	1.0
Cherry Tomatoes	744	0			0.62 ^	1.0
Sweet Bell Peppers	186	0			0.10 ^	1.0
TOTAL	**3,024**	**0**				
Pyridaben (insecticide, acaricide)						
Apple Juice	396	0			0.005 ^	0.5
Baby Food - Applesauce	396	20	5.1	0.002 ^	0.001 ^	0.5
Baby Food - Peaches	777	0			0.001 - 0.002	2.5
Bananas	559	0			0.001 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cherry Tomatoes	744	0			0.045 ^	0.15
Mushrooms	682	0			0.005 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	297	0			0.005 ^	0.5
Papaya	366	0			0.10 ^	0.10
Plums	697	0			0.002 ^	2.5
Snap Peas	372	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Sweet Bell Peppers	186	0			0.001 ^	NT
Tangerines	671	0			0.010 ^	0.5
Winter Squash	742	0			0.002 ^	NT
TOTAL	**7,630**	**20**				
Pyridalyl (insecticide)						
Cherry Tomatoes	744	0			0.007 ^	1.0
Mushrooms	62	0			0.020 ^	NT
Orange Juice	66	0			0.020 ^	NT
TOTAL	**872**	**0**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Pyrimethanil (fungicide)						
Apple Juice	396	6	1.5	0.10 - 0.28	0.10 ^	14
Baby Food - Applesauce	396	7	1.8	0.004 - 0.11	0.003 ^	14
Baby Food - Peaches	777	19	2.4	0.002 - 0.008	0.002 - 0.003	10
Bananas	559	17	3	0.002 - 0.012	0.002 ^	0.10
Cantaloupe	372	0			0.003 ^	NT
Cauliflower	737	0			0.001 ^	NT
Cherry Tomatoes (X-2)	744	32	4.3	0.048 - 0.72	0.029 ^	0.50
Mushrooms	713	0			0.10 ^	NT
Onions	558	0			0.003 - 0.050	0.10
Orange Juice	330	0			0.10 ^	10
Plums	697	41	5.9	0.005 - 0.17	0.003 ^	10
Snap Peas (V-12)	743	12	1.6	0.002 - 0.15	0.001 - 0.003	NT
Summer Squash	186	0			0.003 - 0.10	NT
Sweet Bell Peppers (V-1)	186	1	0.5	0.022 ^	0.002 ^	NT
Tangerines	709	69	9.7	0.003 - 0.77	0.003 ^	10
Winter Squash	742	0			0.003 ^	NT
TOTAL	**8,845**	**204**				
Pyriproxyfen (insecticide, growth regulator)						
Apple Juice	396	0			0.001 ^	0.2
Avocado	372	0			0.015 ^	1.0
Baby Food - Applesauce	396	0			0.001 ^	0.2
Baby Food - Carrots	792	0			0.015 ^	0.15
Baby Food - Peaches	777	0			0.002 ^	1.0
Baby Food - Peas	395	0			0.010 ^	0.20
Bananas	559	0			0.002 ^	0.20
Cantaloupe	372	0			0.010 ^	0.10
Cauliflower	737	0			0.003 - 0.010	0.70
Cherry Tomatoes	744	7	0.9	0.048 - 0.12	0.029 ^	0.2
Mushrooms	744	0			0.001 ^	0.10
Onions	558	0			0.002 - 0.005	0.15
Orange Juice	297	1	0.3	0.002 ^	0.001 ^	0.3
Papaya	366	0			0.002 ^	1.0
Plums	697	0			0.002 ^	1.0
Snap Peas	743	0			0.002 - 0.003	0.20
Summer Squash	186	1	0.5	0.026 ^	0.002 - 0.010	0.10
Sweet Bell Peppers	186	9	4.8	0.003 - 0.037	0.002 ^	0.2
Tangerines	709	0			0.010 ^	0.3
Winter Squash	742	0			0.002 ^	0.10
TOTAL	**10,768**	**18**				
Quinalphos (insecticide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,986**	**0**				
Quinoxyfen (fungicide)						
Apple Juice	396	0			0.020 ^	NT
Baby Food - Applesauce	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.002 ^	0.70
Cantaloupe	372	2	0.5	0.011 - 0.013	0.010 ^	0.08
Cauliflower	723	0			0.004 ^	NT
Mushrooms	744	0			0.010 - 0.020	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.010 - 0.020	NT
Plums	697	0			0.002 ^	0.70
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	94	0			0.002 ^	0.20
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	34	4.6	0.003 - 0.018	0.002 ^	0.20
TOTAL	**6,631**	**36**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Quintozene - PCNB (fungicide) (parent of HCB, PCA, PCB and PCPMS)						
Apple Juice	396	0			0.004 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.021	NT
Bananas	559	0			0.021 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 - 0.003	0.1
Cherry Tomatoes	742	1	0.1	0.014 ^	0.003 ^	0.1
Mushrooms	744	0			0.002 - 0.004	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.002 - 0.004	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	186	0			0.003 - 0.050	NT
Sweet Bell Peppers	186	0			0.021 ^	0.1
Tangerines	691	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**8,577**	**1**				
Quizalofop ethyl (herbicide)						
Baby Food - Peaches	406	0			0.006 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	0.3
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**2,590**	**0**				
Resmethrin (insecticide)						
Baby Food - Applesauce	396	0			0.004 ^	3.0
Baby Food - Peaches	777	0			0.006 - 0.028	3.0
Baby Food - Peas	373	0			0.12 ^	3.0
Bananas	559	0			0.028 ^	3.0
Cantaloupe	372	0			0.040 ^	3.0
Onions	558	0			0.006 - 0.050	3.0
Papaya	366	0			0.020 ^	3.0
Plums	697	0			0.006 ^	3.0
Snap Peas	372	0			0.006 ^	3.0
Summer Squash	186	0			0.006 - 0.25	3.0
Sweet Bell Peppers	155	0			0.18 ^	3.0
Tangerines	709	0			0.040 ^	3.0
Winter Squash	742	0			0.006 ^	3.0
TOTAL	**6,262**	**0**				
Resmethrin-c (isomer of Resmethrin)						
Apple Juice	396	0			0.050 ^	3.0
Baby Food - Carrots	792	0			0.008 ^	3.0
Cauliflower	737	0			0.008 ^	3.0
Cherry Tomatoes	744	0			0.027 ^	3.0
Mushrooms	744	0			0.050 - 0.10	3.0
Orange Juice	330	0			0.050 - 0.10	3.0
Snap Peas	371	0			0.002 ^	3.0
TOTAL	**4,114**	**0**				
Resmethrin-t (isomer of Resmethrin)						
Apple Juice	396	0			0.050 ^	3.0
Baby Food - Carrots	792	0			0.008 ^	3.0
Cauliflower	737	0			0.002 ^	3.0
Cherry Tomatoes	744	0			0.003 ^	3.0
Mushrooms	744	0			0.050 - 0.10	3.0
Orange Juice	330	0			0.050 - 0.10	3.0
Snap Peas	371	0			0.002 ^	3.0
TOTAL	**4,114**	**0**				
Rimsulfuron (herbicide)						
Apple Juice	363	0			0.010 ^	0.01
Baby Food - Peaches	271	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
Mushrooms	744	0			0.010 ^	NT
Orange Juice	330	0			0.010 ^	0.01
Plums	565	0			0.006 ^	0.01
TOTAL	**2,273**	**0**				
Saflufenacil (herbicide)						
Apple Juice	396	0			0.010 ^	0.03
Baby Food - Peaches	406	0			0.006 ^	0.03
Baby Food - Peas	373	0			0.010 ^	0.03
Mushrooms	744	0			0.010 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.010 ^	0.03
Plums	697	0			0.006 ^	0.03
Snap Peas	372	0			0.006 ^	0.03
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**4,433**	**0**				
Sethoxydim (herbicide)						
Apple Juice	396	0			0.003 ^	0.2
Baby Food - Carrots	792	0			0.001 ^	4.0
Baby Food - Peaches	777	0			0.003 - 0.007	0.2
Baby Food - Peas	395	0			0.020 ^	10
Bananas	559	0			0.007 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	558	0			0.003 - 0.005	1.0
Orange Juice	330	0			0.003 ^	0.5
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	10
Summer Squash	186	0			0.003 - 0.020	4.0
Sweet Bell Peppers	186	0			0.007 ^	4.0
Winter Squash	742	0			0.003 ^	4.0
TOTAL	**6,734**	**0**				
Sethoxydim sulfone (herbicide metabolite)						
Baby Food - Peaches	113	0			0.003 ^	0.2
TOTAL	**113**	**0**				
Sethoxydim sulfoxide (herbicide metabolite)						
Baby Food - Peaches	113	0			0.003 ^	0.2
Plums	192	0			0.003 ^	NT
Snap Peas	62	1	1.6	0.005 ^	0.003 ^	10
Winter Squash	154	2	1.3	0.016 - 0.066	0.003 ^	4.0
TOTAL	**521**	**3**				
Simazine (herbicide)						
Apple Juice	363	0			0.005 ^	0.20
Avocado	372	0			0.009 ^	0.20
Baby Food - Peaches	777	0			0.003 - 0.005	0.20
Bananas	559	0			0.005 ^	NT
Cauliflower	737	0			0.001 - 0.003	NT
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.005 ^	0.25
Plums	697	0			0.003 ^	0.20
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.005 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**6,623**	**0**				
Spinetoram (insecticide)						
Apple Juice	396	0			0.005 ^	0.20
Baby Food - Carrots	792	0			0.030 ^	0.10
Baby Food - Peaches	777	0			0.005 - 0.006	0.20
Bananas	559	0			0.005 ^	0.25
Cauliflower	737	0			0.001 ^	2.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Cherry Tomatoes	744	0			0.020 ^	0.40
Mushrooms	744	0			0.005 ^	NT
Onions	279	0			0.006 ^	0.10
Orange Juice	330	0			0.005 ^	0.30
Plums	697	0			0.006 ^	0.20
Snap Peas	743	43	5.8	0.002 - 0.031	0.001 - 0.006	0.30
Summer Squash	94	0			0.006 ^	0.30
Sweet Bell Peppers	186	0			0.005 ^	0.40
Winter Squash	742	0			0.006 ^	0.30
TOTAL	**7,820**	**43**				
Spinosad (insecticide) (total of spinosyns A and D)						
Avocado	372	0			0.12 ^	0.3
Baby Food - Carrots	792	0			0.016 ^	0.10
Baby Food - Peas	395	0			0.005 ^	0.02
Cauliflower	737	0			0.001 ^	2.0
Cherry Tomatoes	744	1	0.1	0.050 ^	0.030 ^	0.4
Onions	279	0			0.010 ^	0.10
Papaya	366	0			0.016 ^	0.3
Snap Peas (X-1)	371	12	3.2	0.007 - 0.46	0.006 ^	0.30
Summer Squash	92	0			0.005 ^	0.3
TOTAL	**4,148**	**13**				
Spinosad A (isomer of Spinosad)						
Apple Juice	396	0			0.005 ^	0.20
Baby Food - Applesauce	396	0			0.002 ^	0.20
Baby Food - Peaches	777	7	0.9	0.003 - 0.017	0.002 - 0.005	0.20
Bananas	559	0			0.005 ^	0.25
Cantaloupe	372	0			0.002 ^	0.3
Mushrooms	744	0			0.005 ^	0.02
Onions	279	0			0.002 ^	0.10
Orange Juice	330	0			0.005 ^	0.3
Plums	697	5	0.7	0.003 - 0.009	0.002 ^	0.20
Snap Peas	372	11	3	0.003 - 0.031	0.002 ^	0.30
Summer Squash	94	0			0.002 ^	0.3
Sweet Bell Peppers	186	1	0.5	0.022 ^	0.005 ^	0.4
Tangerines	709	0			0.002 ^	0.3
Winter Squash	742	0			0.002 ^	0.3
TOTAL	**6,653**	**24**				
Spinosad D (isomer of Spinosad)						
Apple Juice	396	0			0.005 ^	0.20
Baby Food - Applesauce	396	0			0.002 ^	0.20
Baby Food - Peaches	777	5	0.6	0.003 ^	0.002 - 0.005	0.20
Bananas	559	0			0.005 ^	0.25
Cantaloupe	372	0			0.002 ^	0.3
Mushrooms	744	0			0.005 ^	0.02
Onions	279	0			0.002 ^	0.10
Orange Juice	297	0			0.005 ^	0.3
Plums	697	1	0.1	0.003 ^	0.002 ^	0.20
Snap Peas	372	7	1.9	0.003 - 0.008	0.002 ^	0.30
Summer Squash	94	0			0.002 ^	0.3
Sweet Bell Peppers	186	0			0.005 ^	0.4
Tangerines	709	0			0.002 ^	0.3
Winter Squash	742	0			0.002 ^	0.3
TOTAL	**6,620**	**13**				
Spirodiclofen (acaricide)						
Apple Juice	396	0			0.010 ^	0.80
Baby Food - Applesauce	396	0			0.010 ^	0.80
Baby Food - Peaches	777	0			0.003 - 0.006	1.0
Bananas	559	0			0.006 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Mushrooms	713	0			0.010 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.010 ^	0.50
Plums	697	62	8.9	0.005 - 0.016	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
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.006 ^	NT
Tangerines	709	0			0.010 ^	0.50
Winter Squash (V-2)	742	2	0.3	0.005 - 0.012	0.003 ^	NT
TOTAL	**6,622**	**64**				
Spiromesifen Total (parent + enol metabolite) (insecticide)						
Cauliflower	737	0			0.006 - 0.020	2.0
Snap Peas (V-1)	371	1	0.3	0.010 ^	0.006 ^	NT
TOTAL	**1,108**	**1**				
Spiromesifen (insecticide)						
Apple Juice	396	0			0.002 - 0.010	NT
Baby Food - Applesauce	396	0			0.002 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Baby Food - Peas	395	0			0.020 ^	NT
Cantaloupe	372	0			0.002 ^	0.10
Cherry Tomatoes	710	23	3.2	0.048 - 0.12	0.029 - 0.097	0.45
Mushrooms	744	0			0.002 - 0.010	NT
Onions	558	0			0.003 - 0.10	0.09
Orange Juice	297	0			0.002 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas (V-4)	372	4	1.1	0.005 - 0.099	0.003 ^	NT
Summer Squash	186	0			0.003 - 0.040	0.10
Tangerines	709	0			0.002 ^	NT
Winter Squash	742	0			0.003 ^	0.10
TOTAL	**6,980**	**27**				
Spirotetramat (insecticide)						
Apple Juice	396	0			0.002 ^	0.70
Avocado	372	0			0.15 ^	0.60
Baby Food - Peaches	406	0			0.002 ^	4.5
Baby Food - Peas	395	0			0.010 ^	2.5
Cherry Tomatoes	744	3	0.4	0.050 ^	0.030 ^	2.5
Mushrooms	744	0			0.002 ^	NT
Onions	558	0			0.002 - 0.005	0.30
Orange Juice	330	0			0.002 ^	0.60
Plums	697	23	3.3	0.003 - 0.018	0.002 ^	4.5
Snap Peas	372	8	2.2	0.005 - 0.025	0.002 ^	2.5
Summer Squash	186	0			0.002 - 0.010	0.30
Winter Squash	742	0			0.002 ^	0.30
TOTAL	**5,942**	**34**				
Spiroxamine (fungicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
TOTAL	**396**	**0**				
Sulfentrazone (herbicide)						
Baby Food - Peaches	777	0			0.006 - 0.035	NT
Baby Food - Peas	395	0			0.15 ^	0.15
Bananas	559	0			0.035 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	0.15
Summer Squash	94	0			0.006 ^	0.15
Sweet Bell Peppers	186	0			0.035 ^	0.15
Winter Squash	742	0			0.006 ^	0.15
TOTAL	**4,101**	**0**				
Sulprofos (insecticide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.002 - 0.003	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**3,698**	**0**				
Tebuconazole (fungicide)						
Apple Juice	396	0			0.010 ^	0.05
Baby Food - Applesauce	396	1	0.3	0.002 ^	0.001 ^	0.05
Baby Food - Peaches	777	2	0.3	0.010 ^	0.006 ^	1.0
Bananas	559	1	0.2	0.008 ^	0.006 ^	0.05
Cantaloupe	372	1	0.3	0.012 ^	0.010 ^	0.09
Cauliflower	737	0			0.002 - 0.006	NT
Cherry Tomatoes	744	7	0.9	0.004 - 0.061	0.003 ^	1.3
Onions	558	0			0.005 - 0.006	0.2
Plums	697	54	7.7	0.010 - 0.59	0.006 ^	1.0
Snap Peas (V-83)	743	83	11.2	0.003 - 0.22	0.002 - 0.006	NT
Summer Squash	186	2	1.1	0.009 - 0.020	0.005 - 0.006	0.09
Sweet Bell Peppers	186	3	1.6	0.009 - 0.15	0.006 ^	1.3
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	5	0.7	0.010 ^	0.006 ^	0.09
TOTAL	**7,802**	**159**				
Tebufenozide (insecticide)						
Apple Juice	396	0			0.002 ^	1.0
Baby Food - Applesauce	396	0			0.005 ^	1.0
Baby Food - Peaches	777	0			0.003 ^	NT
Bananas	559	0			0.003 ^	NT
Cantaloupe	372	0			0.005 ^	NT
Cauliflower	737	0			0.010 ^	5.0
Cherry Tomatoes	744	0			0.005 ^	1.0
Mushrooms	744	0			0.002 ^	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.002 ^	0.80
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 - 0.020	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	3	1.6	0.005 ^	0.003 ^	1.0
Tangerines	709	0			0.005 ^	0.80
Winter Squash	742	0			0.003 ^	NT
TOTAL	**8,505**	**3**				
Tebufenpyrad (insecticide, acaricide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	0			0.002 ^	NT
TOTAL	**792**	**0**				
Tebuthiuron (herbicide)						
Baby Food - Peaches	406	0			0.002 ^	NT
Cauliflower	737	0			0.001 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.001 - 0.002	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**3,698**	**0**				
Tecnazene (plant growth regulator)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	721	0			0.003 ^	NT
Snap Peas	371	0			0.001 ^	NT
Tangerines	691	0			0.010 ^	NT
TOTAL	**2,551**	**0**				
Tefluthrin (insecticide)						
Apple Juice	396	0			0.002 ^	NT
Avocado	372	0			0.003 ^	NT
Baby Food - Applesauce	396	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 - Carrots	792	0			0.11 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.009	NT
Baby Food - Peas	395	0			0.010 ^	NT
Bananas	559	0			0.009 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 ^	NT
Cherry Tomatoes	744	0			0.004 ^	NT
Mushrooms	744	0			0.002 ^	NT
Onions	558	0			0.003 - 0.025	NT
Orange Juice	330	0			0.002 ^	NT
Papaya	366	0			0.020 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	186	0			0.003 - 0.050	NT
Sweet Bell Peppers	186	0			0.001 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**10,801**	**0**				
Tepraloxydim (herbicide)						
Baby Food - Peas	395	0			0.060 ^	NT
TOTAL	**395**	**0**				
Terbacil (herbicide)						
Apple Juice	396	0			0.010 ^	0.3
Baby Food - Applesauce	396	0			0.002 ^	0.3
Baby Food - Peaches	777	0			0.008 - 0.010	0.2
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.015 ^	NT
Cauliflower	723	0			0.010 ^	NT
Onions	279	0			0.008 ^	NT
Plums	697	0			0.008 ^	NT
Snap Peas	743	0			0.003 - 0.010	NT
Summer Squash	94	0			0.008 ^	NT
Tangerines	709	0			0.015 ^	NT
Winter Squash	742	0			0.008 ^	NT
TOTAL	**6,487**	**0**				
Terbufos (insecticide)						
Baby Food - Peaches	406	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	356	0			0.002 ^	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.002 ^	NT
Summer Squash	94	0			0.002 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**3,689**	**0**				
Terbufos sulfone (metabolite of Terbufos)						
Baby Food - Peaches	406	0			0.006 ^	NT
Cauliflower	737	0			0.002 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.002 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**3,698**	**0**				
Terbuthylazine (herbicide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
TOTAL	**396**	**0**				
Tetrachlorvinphos (insecticide)						
Baby Food - Peaches	406	0			0.003 ^	NT
Baby Food - Peas	395	0			0.050 ^	NT
Cauliflower	737	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
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**4,093**	**0**				
Tetraconazole (fungicide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.006 ^	NT
Cauliflower	737	0			0.001 ^	NT
Onions	279	0			0.006 ^	NT
Plums (V-2)	697	2	0.3	0.010 - 0.021	0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**4,094**	**2**				
Tetradifon (insecticide)						
Apple Juice	396	0			0.010 ^	NT
Avocado	372	0			0.006 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.006 - 0.010	NT
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.002 - 0.008	NT
Mushrooms	744	0			0.002 - 0.010	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.002 - 0.010	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.002 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**7,947**	**0**				
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)						
Apple Juice	396	125	31.6	0.012 - 0.29	0.010 ^	25.0
Avocado	372	0			0.045 ^	NT
Baby Food - Peaches	406	0			0.009 ^	15.0
Cauliflower	677	0			0.012 - 0.024	0.05
Mushrooms	744	0			0.010 ^	NT
Onions	279	0			0.009 ^	0.05
Orange Juice	330	0			0.010 ^	NT
Plums	697	1	0.1	0.015 ^	0.009 ^	10.0
Snap Peas (X-16)	742	86	11.6	0.006 - 0.38	0.004 - 0.024	0.05
Summer Squash	94	1	1.1	0.015 ^	0.009 ^	0.05
Winter Squash (X-4)	742	7	0.9	0.015 - 0.35	0.009 ^	0.05
TOTAL	**5,479**	**220**				
Tetramethrin (insecticide)						
Apple Juice	396	0			0.005 ^	NT
Avocado	372	0			0.060 ^	NT
Baby Food - Applesauce	396	0			0.005 ^	NT
Baby Food - Carrots	792	0			0.015 ^	NT
Baby Food - Peaches	777	0			0.003 - 0.099	NT
Baby Food - Peas	395	0			0.050 ^	NT
Bananas	559	0			0.099 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cherry Tomatoes	744	0			0.006 ^	NT
Mushrooms	744	0			0.005 ^	NT
Onions	558	0			0.003 - 0.10	NT
Orange Juice	330	0			0.005 ^	NT
Papaya	366	0			0.080 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Sweet Bell Peppers	186	0			0.004 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**9,601**	**0**				
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)						
Apple Juice	396	82	20.7	0.003 - 0.32	0.003 ^	5.0
Avocado	372	0			0.003 ^	10.0
Baby Food - Applesauce	396	6	1.5	0.014 - 0.29	0.010 ^	5.0
Baby Food - Carrots	792	0			0.004 ^	10.0
Baby Food - Peaches (V-6)	777	6	0.8	0.011 - 0.015	0.003 - 0.009	NT
Bananas	559	269	48.1	0.006 - 0.17	0.006 ^	3.0
Cantaloupe	372	0			0.010 ^	15.0
Cauliflower	737	0			0.001 ^	NT
Mushrooms	744	386	51.9	0.003 - 3.9	0.003 ^	40.0
Onions	279	0			0.003 ^	NT
Orange Juice	330	28	8.5	0.003 - 0.051	0.003 ^	10.0
Papaya	366	16	4.4	0.15 - 0.50	0.15 ^	5.0
Plums (V-34)	697	34	4.9	0.005 - 0.027	0.003 ^	NT
Snap Peas (V-5)	743	5	0.7	0.002 - 0.006	0.001 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.006 ^	NT
Tangerines	709	512	72.2	0.010 - 1.2	0.010 ^	10.0
Winter Squash (V-1)	742	1	0.1	0.36 ^	0.003 ^	NT
TOTAL	**9,291**	**1,345**				
Thiacloprid (insecticide)						
Apple Juice	396	43	10.9	0.001 - 0.006	0.001 ^	0.30
Baby Food - Applesauce	396	1	0.3	0.015 ^	0.010 ^	0.30
Baby Food - Peaches	777	0			0.002 - 0.005	NT
Bananas	559	0			0.005 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.001 - 0.003	NT
Onions	279	0			0.002 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas (V-17)	743	17	2.3	0.002 - 0.49	0.001 - 0.003	NT
Summer Squash	94	0			0.002 ^	NT
Sweet Bell Peppers	186	0			0.005 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**6,687**	**61**				
Thiamethoxam (insecticide) (also a parent of Clothianidin)						
Apple Juice	396	0			0.003 ^	0.2
Avocado	372	0			0.006 ^	0.40
Baby Food - Applesauce	396	0			0.010 ^	0.2
Baby Food - Carrots	792	0			0.069 ^	0.05
Baby Food - Peaches	777	0			0.002 - 0.010	0.5
Baby Food - Peas	395	0			0.060 ^	0.02
Bananas	559	0			0.010 ^	0.02
Cantaloupe	372	21	5.6	0.010 - 0.033	0.010 ^	0.2
Cauliflower	737	15	2	0.008 - 0.018	0.005 ^	4.5
Cherry Tomatoes (X-1)	715	22	3.1	0.003 - 0.38	0.002 - 0.007	0.25
Mushrooms	744	1	0.1	0.009 ^	0.003 ^	0.02
Onions	558	1	0.2	0.003 ^	0.002 - 0.080	0.03
Orange Juice	330	0			0.003 ^	0.40
Papaya	366	5	1.4	0.025 - 0.066	0.020 ^	0.40
Plums	697	3	0.4	0.003 ^	0.002 ^	0.5
Snap Peas (X-2)	743	14	1.9	0.003 - 0.068	0.002 - 0.005	0.02
Summer Squash	186	41	22	0.003 - 0.14	0.002 - 0.060	0.2
Sweet Bell Peppers	186	62	33.3	0.010 - 0.12	0.010 ^	0.25
Tangerines	709	2	0.3	0.069 - 0.28	0.010 ^	0.40
Winter Squash	742	69	9.3	0.003 - 0.036	0.002 ^	0.2
TOTAL	**10,772**	**256**				

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
Thiazopyr (herbicide)						
Apple Juice	396	0			0.008 ^	NT
Mushrooms	744	0			0.008 ^	NT
Orange Juice	330	0			0.008 ^	0.05
TOTAL	**1,470**	**0**				
Thiobencarb (herbicide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Peaches	406	0			0.006 ^	NT
Cauliflower	737	0			0.003 ^	NT
Mushrooms	744	0			0.010 ^	NT
Onions	279	0			0.006 ^	NT
Orange Juice	330	0			0.010 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**5,168**	**0**				
Thiodicarb (insecticide)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Peaches	406	0			0.006 ^	NT
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.012 ^	NT
Orange Juice	330	0			0.003 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	372	0			0.006 ^	NT
Summer Squash	94	0			0.006 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**4,060**	**0**				
Thionazin (insecticide, fumigant)						
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**2,590**	**0**				
Thiophanate methyl (fungicide)						
Mushrooms	62	0			0.10 ^	NT
Onions	279	0			0.040 ^	0.5
Summer Squash	92	0			0.040 ^	1.0
TOTAL	**433**	**0**				
Tolyfluanid (fungicide)						
Baby Food - Peaches	371	0			0.024 ^	NT
Bananas	559	0			0.024 ^	NT
TOTAL	**930**	**0**				
Tri-Allate (herbicide)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Baby Food - Peas	395	0			0.050 ^	0.2
Cantaloupe	372	0			0.010 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	0.2
Summer Squash	94	0			0.003 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**4,462**	**0**				
Triadimefon (fungicide) (also a parent of Triadimenol)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.002 - 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
Bananas	559	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Onions	279	0			0.006 ^	NT
Plums	697	0			0.006 ^	NT
Snap Peas	743	0			0.001 - 0.006	NT
Summer Squash	94	0			0.006 ^	NT
Sweet Bell Peppers	186	0			0.002 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.006 ^	NT
TOTAL	**5,554**	**0**				
Triadimenol (fungicide) (also a metabolite of Triadimefon)						
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	777	0			0.017 - 0.018	NT
Bananas	559	0			0.017 ^	0.2
Cantaloupe	372	0			0.010 ^	NT
Onions	279	0			0.018 ^	NT
Plums	697	0			0.018 ^	NT
Snap Peas (V-11)	372	11	3	0.030 - 0.32	0.018 ^	NT
Summer Squash	94	0			0.018 ^	NT
Sweet Bell Peppers	186	0			0.017 ^	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.018 ^	NT
TOTAL	**5,183**	**11**				
Triazophos (insecticide)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Applesauce	396	0			0.002 ^	NT
Baby Food - Peaches	406	0			0.003 ^	NT
Onions	279	0			0.003 ^	NT
Plums	697	0			0.003 ^	NT
Snap Peas	372	0			0.003 ^	NT
Summer Squash	94	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**3,382**	**0**				
Trichlorfon (insecticide)						
Apple Juice	396	0			0.010 ^	NT
Mushrooms	744	0			0.010 ^	NT
Orange Juice	330	0			0.010 ^	NT
TOTAL	**1,470**	**0**				
Trifloxystrobin (fungicide)						
Apple Juice	396	0			0.003 ^	0.5
Baby Food - Applesauce	396	0			0.005 ^	0.5
Baby Food - Carrots	792	0			0.001 ^	0.1
Baby Food - Peaches	777	0			0.002 - 0.005	2
Bananas	559	0			0.005 ^	0.10
Cantaloupe	372	0			0.005 ^	0.50
Cauliflower	737	0			0.001 ^	NT
Cherry Tomatoes	744	57	7.7	0.002 - 0.22	0.001 ^	0.5
Mushrooms	744	0			0.003 ^	NT
Onions	279	0			0.002 ^	NT
Orange Juice	330	0			0.003 ^	0.6
Papaya	366	0			0.002 ^	0.7
Plums	697	0			0.002 ^	2
Snap Peas (V-4)	743	4	0.5	0.002 - 0.009	0.001 - 0.002	NT
Summer Squash	186	1	0.5	0.006 ^	0.002 - 0.050	0.50
Sweet Bell Peppers	186	8	4.3	0.006 - 0.060	0.005 ^	0.5
Tangerines	709	0			0.005 ^	0.6
Winter Squash	742	3	0.4	0.003 ^	0.002 ^	0.50
TOTAL	**9,755**	**73**				
Trifloxysulfuron (herbicide)						
Apple Juice	396	0			0.005 ^	NT
Mushrooms	744	0			0.005 ^	NT
Orange Juice	330	0			0.005 ^	0.03
TOTAL	**1,470**	**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
Triflumizole (fungicide)						
Apple Juice	396	0			0.010 ^	0.5
Baby Food - Applesauce	396	0			0.003 ^	0.5
Baby Food - Peaches	777	0			0.002 - 0.003	NT
Bananas	559	0			0.002 ^	NT
Cantaloupe	372	0			0.003 ^	0.5
Onions	279	0			0.003 ^	NT
Papaya	366	0			0.050 ^	2.5
Plums	697	0			0.003 ^	NT
Snap Peas (V-1)	372	1	0.3	0.064 ^	0.003 ^	NT
Summer Squash	186	0			0.003 - 0.062	0.5
Sweet Bell Peppers	186	0			0.002 ^	NT
Tangerines	709	0			0.003 ^	NT
Winter Squash	742	0			0.003 ^	0.5
TOTAL	**6,037**	**1**				
Trifluralin (herbicide)						
Apple Juice	396	0			0.001 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Carrots	792	0			0.011 ^	1.0
Baby Food - Peaches	777	0			0.005 - 0.009	0.05
Baby Food - Peas	395	0			0.010 ^	0.05
Bananas	559	0			0.009 ^	NT
Cantaloupe	372	0			0.010 ^	0.05
Cauliflower	737	0			0.003 ^	0.05
Cherry Tomatoes	744	0			0.004 ^	0.05
Mushrooms	744	0			0.001 ^	NT
Onions	558	0			0.005 - 0.010	0.05
Orange Juice	330	0			0.001 ^	0.05
Plums	697	0			0.005 - 0.006	0.05
Snap Peas	727	0			0.001 - 0.006	0.05
Summer Squash	186	0			0.006 - 0.010	0.05
Sweet Bell Peppers	186	0			0.006 ^	0.05
Tangerines	691	0			0.010 ^	0.05
Winter Squash	742	4	0.5	0.010 ^	0.005 - 0.006	0.05
TOTAL	**10,029**	**4**				
Triforine (fungicide)						
Apple Juice	396	0			0.010 ^	NT
TOTAL	**396**	**0**				
Triticonazole (fungicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**1,477**	**0**				
Uniconazole (insect growth regulator)						
Avocado	372	0			0.015 ^	NT
Baby Food - Peaches	406	0			0.024 ^	NT
Cherry Tomatoes	744	0			0.002 ^	0.01
Onions	279	0			0.024 ^	NT
Plums	697	0			0.024 ^	NT
Snap Peas	372	0			0.024 ^	NT
Summer Squash	94	0			0.024 ^	NT
Winter Squash	742	0			0.024 ^	NT
TOTAL	**3,706**	**0**				
Vernolate (herbicide)						
Baby Food - Applesauce	396	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Tangerines	709	0			0.010 ^	NT
TOTAL	**1,477**	**0**				
Vinclozolin (fungicide)						
Apple Juice	396	0			0.010 ^	NT
Baby Food - Applesauce	396	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 - Peaches	777	0			0.003 - 0.010	25.0
Bananas	559	0			0.010 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	737	0			0.003 ^	NT
Mushrooms	744	0			0.001 - 0.010	NT
Onions	279	0			0.003 ^	NT
Orange Juice	330	0			0.001 - 0.010	NT
Plums	697	0			0.003 ^	NT
Snap Peas	743	0			0.001 - 0.003	NT
Summer Squash	94	0			0.003 ^	NT
Sweet Bell Peppers	186	0			0.010 ^	3.0
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.003 ^	NT
TOTAL	**7,761**	**0**				
Zoxamide (fungicide)						
Cherry Tomatoes	744	3	0.4	0.015 - 0.073	0.009 ^	2.0
Summer Squash	92	0			0.010 ^	1.0
TOTAL	**836**	**3**				

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 2012 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 = Exempt from the requirement of a tolerance in or on all food commodities.

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 cauliflower as a possible result of an acephate application.

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

4 Specific tolerances for parathion methyl and its oxygen analog metabolite have been revoked since December 31, 1999, but are subject to a channels of trade provision per Code of Federal Regulations, Title 40, Part 180.121.

5 Propamocarb 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 pages 1 and 2 in Appendix L 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 3 through 4 in Appendix L 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 Wheat

Appendix C shows residue detections for all compounds tested in wheat, 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 2012 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 2012, the Pesticide Data Program (PDP) analyzed 300 wheat samples. PDP detected 4 different pesticides in the wheat samples. All residue detections were lower than the established tolerances.

APPENDIX C. DISTRIBUTION OF RESIDUES BY PESTICIDE IN WHEAT

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
Alachlor	H	300				0.001 ^	0.05
Amicarbazone	H	300				0.020 ^	0.10
Azoxystrobin	F	300	20	6.7	0.001 - 0.004	0.001 ^	0.10
Benoxacor	S	300				0.010 ^	0.01
Boscalid	F	300	5	1.7	0.001 - 0.005	0.001 ^	0.20
Chlorsulfuron	H	300				0.020 ^	0.1
Clofencet	P	300				0.050 ^	250.0
Cloquintocet-mexyl	S	300				0.001 ^	0.1
Cypermethrin	I	300				0.010 ^	0.2
Deltamethrin (includes parent Tralomethrin)	I	300	38	12.7	0.001 - 0.042	0.001 ^	0.05
Difenzoquat	H	300				0.002 ^	0.05
Diflubenzuron	I	300				0.005 ^	0.06
Fenoxaprop ethyl	H	300				0.001 ^	0.05
Florasulam	H	300				0.010 ^	0.01
Fluometuron	H	300				0.010 ^	1.0
Fluopicolide	F	300				0.002 ^	0.02
Fluopyram	F	300				0.002 ^	1.5
Fluroxypyr-meptyl	H	300				0.20 ^	0.5
Imazamethabenz acid	H	300				0.010 ^	0.10
Imidacloprid	I	300				0.002 ^	0.05
Iodosulfuron methyl sodium	H	300				0.020 ^	0.02
Ipconazole	F	300				0.010 ^	0.01
Mefenpyr diethyl	S	300				0.001 ^	0.05
Mesosulfuron methyl	H	300				0.005 ^	0.03
Metconazole	F	300	1	0.3	0.007 ^	0.005 ^	0.15
Methomyl	I	300				0.001 ^	1
Metsulfuron methyl	H	300				0.010 ^	0.1
Nitrapyrin	N	300				0.020 ^	0.5
Pendimethalin	H	300				0.001 ^	0.10
Picloram	H	300				0.10 ^	0.5
Propoxycarbazone	H	300				0.010 ^	0.02
Prosulfuron	H	300				0.010 ^	0.01
Pyraclostrobin	F	300				0.001 ^	0.02

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
Pyraflufen ethyl	H	300				0.005 ^	0.01
Pyrasulfotole	H	300				0.010 ^	0.02
Pyriproxyfen	I	300				0.002 ^	1.1
Pyroxsulam	H	300				0.002 ^	0.01
Quizalofop ethyl	H	300				0.010 ^	0.05
Saflufenacil	H	300				0.010 ^	0.03
Spinetoram	I	300				0.002 ^	0.04
Spinosad A	IM	300				0.002 ^	1.5
Spinosad D	IM	300				0.002 ^	1.5
Spiromesifen	I	300				0.010 ^	0.03
Spiromesifen enol metabolite (calculated as parent)	IM	300				0.010 ^	0.03
Sulfentrazone	H	300				0.020 ^	0.15
Sulfosulfuron	H	300				0.005 ^	0.02
Thiencarbazone methyl	H	300				0.050 ^	0.01
Thifensulfuron methyl	H	300				0.005 ^	0.05
Tralkoxydim	H	283				0.010 ^	0.02
Triasulfuron	H	300				0.010 ^	0.02
Trifloxystrobin	F	300				0.001 ^	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 2012 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.

Pesticide Types:

F = Fungicide

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

N = Nitrification Inhibitor

P = Plant Growth Regulator

S = Herbicide Safener

Appendix D

Distribution of Residues by Pesticide in Butter

Appendix D shows residue detections for all compounds tested in butter, 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 2012 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 2012, the Pesticide Data Program (PDP) analyzed 792 butter samples. PDP detected 16 different residues (including metabolites), representing 15 pesticides, in the butter samples. All residue detections were lower than the established tolerances.

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

APPENDIX D. DISTRIBUTION OF RESIDUES BY PESTICIDE IN BUTTER

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	792				0.002 ^	0.02
Acetamiprid	I	792				0.001 - 0.003	0.01
Acibenzolar S methyl	L	792				0.004 - 0.012	NT
Alachlor	H	763				0.002 - 0.005	NT
Aldicarb sulfone	IM	792				0.003 - 0.010	NT
Aldicarb sulfoxide	IM	792				0.002 ^	NT
Azinphos methyl	I	792				0.018 ^	NT
Azoxystrobin	F	792				0.001 - 0.003	NT
Bendiocarb	I	742				0.005 - 0.015	NT
Benoxacor	S	792				0.001 - 0.006	NT
Bifenthrin	I	792	203	25.6	0.003 - 0.012	0.002 ^	1.0
Buprofezin	I	792				0.001 ^	NT
Carbaryl	I	792				0.001 ^	NT
Carbendazim (MBC)	F	792				0.001 ^	NT
Carbofuran	I	792				0.001 ^	NT
Carfentrazone ethyl	H	792				0.004 - 0.016	NT
Chlorantraniliprole	I	792				0.001 ^	NT
Chlorfenapyr	I	792				0.002 - 0.008	0.01
Chlorfenvinphos total	I	792				0.005 ^	NT
Chlorpropham (V-1)	H	792	1	0.1	0.002 ^	0.001 ^	NT
Chlorpyrifos	I	792	3	0.4	0.002 ^	0.001 ^	0.25
Chlorpyrifos oxygen analog	IM	792				0.001 ^	0.25
Clethodim	H	792				0.002 - 0.008	NT
Clomazone	H	792				0.002 - 0.008	NT
Coumaphos	I	792				0.002 ^	0.5
Coumaphos oxygen analog	IM	792				0.011 ^	0.5
Cyfluthrin	I	678	1	0.1	0.012 ^	0.008 - 0.096	5.0
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	792	156	19.7	0.005 - 0.056	0.003 - 0.038	10.0
Cypermethrin	I	759	1	0.1	0.037 ^	0.014 - 0.14	2.50
Cyromazine	R	792				0.002 - 0.008	NT
DCPA	H	792				0.001 ^	NT
Deltamethrin (includes parent Tralomethrin)	I	298				0.012 - 0.080	0.1
Diazinon	I	792				0.001 ^	NT
Diazinon oxygen analog	IM	792				0.001 ^	NT
Dichlobenil	H	792				0.002 ^	NT
Dichlorvos (DDVP)	I	792	1	0.1	0.083 ^	0.005 ^	0.5
Dicloran	F	792				0.002 - 0.015	NT
Dicofol o,p'	I	792				0.002 ^	22.0
Dicofol p,p'	I	792	1	0.1	0.002 ^	0.001 ^	22.0
Dicrotophos	I	792				0.002 ^	NT
Difenoconazole	F	792				0.001 - 0.003	NT
Dimethenamid	H	792				0.001 - 0.003	NT
Dimethoate	I	792				0.004 ^	NT
Dimethomorph	F	792				0.001 ^	NT
Dinotefuran	I	792				0.005 ^	0.01

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
Diphenamid	H	792				0.002 - 0.008	NT
Diphenylamine (DPA)	F	792				0.003 ^	NT
Disulfoton	I	792				0.003 - 0.007	NT
Disulfoton sulfone	IM	792				0.003 ^	NT
Disulfoton sulfone oxygen analog	IM	792				0.001 ^	NT
Disulfoton sulfoxide	IM	792				0.003 ^	NT
Disulfoton sulfoxide oxygen analog	IM	792				0.001 ^	NT
Diuron	H	792				0.007 - 0.026	NT
Emamectin benzoate	I	776				0.001 ^	NT
Endosulfan I	IM	792				0.003 ^	2.0
Endosulfan II	IM	792	1	0.1	0.002 ^	0.001 - 0.004	2.0
Endosulfan sulfate	IM	744				0.004 - 0.024	2.0
EPTC	H	776				0.006 - 0.020	NT
Ethalfluralin	H	792				0.002 ^	NT
Ethiofencarb	I	726				0.002 - 0.008	NT
Ethion	I	776				0.002 - 0.008	0.5
Ethion mono oxon	IM	792				0.002 ^	0.5
Ethoprop	I	792				0.001 ^	NT
Fenamidone	F	792				0.002 ^	NT
Fenamiphos	I	792				0.001 ^	NT
Fenamiphos sulfone	IM	792				0.005 ^	NT
Fenamiphos sulfoxide	IM	792				0.005 ^	NT
Fenarimol	F	776				0.002 - 0.008	NT
Fenbuconazole	F	792				0.001 - 0.032	NT
Fenhexamid	F	628				0.009 - 0.058	NT
Fenitrothion	I	792				0.005 - 0.020	NT
Fenpropathrin	I	775				0.003 ^	2.0
Fenthion	I	792				0.004 - 0.008	NT
Fipronil	I	758				0.003 - 0.020	1.50
Fluazifop butyl	H	314				0.001 - 0.003	NT
Fludioxonil	F	792				0.012 ^	NT
Fluoxastrobin	F	792				0.001 ^	0.50
Hydroprene	R	792				0.002 - 0.005	0.2
3-Hydroxycarbofuran	IM	792				0.001 - 0.004	NT
Imazalil	F	710				0.009 ^	NT
Imidacloprid (V-1)	I	792	1	0.1	0.005 ^	0.001 - 0.003	NT
Lindane (BHC gamma)	I	792				0.001 - 0.003	0.3 AL
Linuron	H	792				0.003 ^	NT
Malathion	I	792				0.001 ^	0.5
Malathion oxygen analog	IM	792				0.005 ^	0.5
Mandipropamid	F	792				0.004 - 0.016	NT
Metalaxyl/Mefenoxam *	F	692				0.001 - 0.004	NT
Methamidophos	I	792				0.002 ^	0.02
Methidathion	I	314				0.004 ^	NT
Methidathion oxygen analog	IM	792				0.003 - 0.010	NT
Methiocarb	I	792				0.001 - 0.003	NT
Methomyl	I	792				0.002 - 0.008	NT
Methoprene	R	776				0.015 - 0.050	EX

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
Methoxychlor olefin	IM	776				0.001 ^	NT
Methoxychlor Total	I	579				0.001 - 0.029	NT
Methoxyfenozide	I	792				0.001 ^	NT
Metolachlor	H	792				0.001 ^	NT
Metribuzin	H	758				0.002 - 0.010	NT
Mevinphos Total	I	792				0.002 ^	NT
Napropamide	H	742				0.002 - 0.010	NT
Omethoate	IM	792				0.004 ^	NT
Oxadixyl	F	775				0.003 ^	NT
Oxamyl	I	792				0.002 - 0.006	NT
Oxydemeton methyl sulfone	IM	792				0.018 ^	NT
Oxyfluorfen	H	792				0.001 ^	NT
Parathion ethyl	I	792				0.005 - 0.010	NT
Parathion methyl	I	792				0.004 ^	NT
Parathion methyl oxygen analog	IM	792				0.007 ^	NT
Parathion oxygen analog	IM	792				0.001 ^	NT
Pendimethalin	H	792				0.001 ^	NT
Pentachloroaniline (PCA)	FM	792				0.001 ^	NT
Pentachlorophenyl methyl sulfide	FM	792				0.001 ^	NT
Permethrin cis	IM	792	201	25.4	0.002 - 0.014	0.001 - 0.003	3.0
Permethrin trans	IM	792	216	27.3	0.002 - 0.017	0.001 - 0.004	3.0
Phenothrin	I	742				0.002 - 0.008	0.01
Phenthoate	I	775				0.001 - 0.004	NT
Phorate	I	792				0.003 - 0.006	NT
Phorate oxygen analog	IM	792				0.001 ^	NT
Phorate sulfone	IM	792				0.005 ^	NT
Phorate sulfoxide	IM	792				0.002 ^	NT
Phosalone	I	792				0.004 ^	NT
Phosphamidon	I	792				0.005 ^	NT
Piperonyl butoxide	I	792	19	2.4	0.008 ^	0.005 - 0.015	0.25
Pirimicarb	I	792				0.001 - 0.003	NT
Pirimiphos methyl	I	792				0.001 ^	NT
Profenofos	I	792				0.003 ^	NT
Prometryn	H	763				0.001 - 0.003	NT
Pronamide	H	775				0.001 - 0.003	NT
Propachlor	H	792				0.001 - 0.003	NT
Propargite	I	231	3	1.3	0.010 ^	0.004 - 0.077	2.0
Propetamphos	I	792				0.002 ^	0.1
Pymetrozine	I	792				0.004 ^	NT
Pyraclostrobin	F	314				0.001 - 0.008	NT
Pyrimethanil	F	792				0.001 ^	NT
Pyriproxyfen	I	760				0.003 - 0.020	0.10
Quinoxyfen	F	775				0.001 ^	NT
Quintozene (PCNB)	F	770				0.001 - 0.003	NT
Resmethrin-c	IM	776				0.002 ^	3.0
Resmethrin-t	IM	792				0.002 ^	3.0
Spinetoram	I	792				0.001 ^	7.5
Spinosad	I	792	31	3.9	0.002 - 0.012	0.001 ^	85

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
Spiromesifen Total (parent + enol metabolite)	I	298				0.005 - 0.042	0.25
Tebuconazole	F	792				0.002 ^	NT
Tebuthiuron	H	792				0.001 ^	NT
Tecnazene	P	792				0.001 ^	NT
Tefluthrin	I	792				0.001 ^	NT
Terbacil	H	743				0.003 - 0.010	NT
Terbufos sulfone	IM	792				0.004 ^	NT
Tetrachlorvinphos	I	792				0.005 ^	0.05
Tetraconazole	F	792				0.001 - 0.003	0.75
Tetradifon	I	792				0.002 ^	NT
Tetrahydrophthalimide (THPI)	FM	792				0.004 - 0.024	NT
Thiabendazole (V-1)	F	792	1	0.1	0.002 ^	0.001 ^	NT
Thiamethoxam	I	792				0.004 - 0.016	0.02
Trifloxystrobin	F	314				0.001 - 0.003	NT
Trifluralin	H	792				0.001 ^	NT
Vinclozolin	F	792				0.001 - 0.003	NT

Many of the listed tolerances are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions. The cited tolerances apply to 2012 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.

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.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences. Refer to pages 3 through 4 in Appendix L to see the number of occurrences broken down by sample origin (domestic, imported, or unknown) for a commodity/pesticide 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
I = Insecticide, IM = Insecticide Metabolite
L = Plant Activator
P = Plant Growth Regulator
R = Insect Growth Regulator
S = Herbicide Safener

Appendix E

Distribution of Residues by Pesticide in Groundwater

Appendix E 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 2012, the Pesticide Data Program (PDP) analyzed 168 groundwater samples from 166 different collection sites, including 23 from school/daycare wells, 32 from private residential wells, and 111 from municipal water facilities that draw from groundwater sources. PDP detected 51 different residues (including metabolites), representing 40 pesticides, in the groundwater samples. Most of the detections were for herbicides. The samples with detectable residues came from 98 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 G).

APPENDIX E. 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 - Municipal Water Facilities	111				0.84 - 15	
Groundwater - Private Residence Wells	34				0.84 - 15	
Groundwater - School/Daycare Wells	23				0.84 ^	
2,4,5-TP (H)						
Groundwater - Municipal Water Facilities	109				0.68 - 15	
Groundwater - Private Residence Wells	27				0.68 - 15	
Groundwater - School/Daycare Wells	23				0.68 ^	
2,4-D (H)						
Groundwater - Municipal Water Facilities	111	5	4.5	1.1 - 21	0.65 - 2.5	
Groundwater - Private Residence Wells	34	5	14.7	36 - 292	0.65 - 2.5	
Groundwater - School/Daycare Wells	23	1	4.3	7.3 ^	0.65 ^	
2,4-DB (H)						
Groundwater - Municipal Water Facilities	111				6.0 - 42	
Groundwater - Private Residence Wells	34				6.0 - 42	
Groundwater - School/Daycare Wells	23				39 ^	
Acetamiprid (I)						
Groundwater - Municipal Water Facilities	111				1.7 - 7.5	497,000
Groundwater - Private Residence Wells	34				1.7 - 7.5	497,000
Groundwater - School/Daycare Wells	23				1.7 ^	497,000
Acetochlor (H)						
Groundwater - Municipal Water Facilities	107				9.2 - 10	140,000
Groundwater - Private Residence Wells	34				9.2 - 10	140,000
Groundwater - School/Daycare Wells	23				9.2 ^	140,000
Acetochlor ethanesulfonic acid (HM)						
Groundwater - Municipal Water Facilities	111	22	19.8	2.7 - 269	1.6 - 9.0	
Groundwater - Private Residence Wells	34	7	20.6	15 - 632	1.6 - 9.0	
Groundwater - School/Daycare Wells	23				1.6 ^	
Acetochlor oxanilic acid (HM)						
Groundwater - Municipal Water Facilities	111	16	14.4	5.6 - 160	1.4 - 10	
Groundwater - Private Residence Wells	34	2	5.9	17 ^	1.4 - 10	
Groundwater - School/Daycare Wells	23				1.4 ^	
Alachlor (H)						
Groundwater - Municipal Water Facilities	107	1	0.9	13 ^	7.8 - 10	
Groundwater - Private Residence Wells	34	1	2.9	17 ^	7.8 - 10	
Groundwater - School/Daycare Wells	23				7.8 ^	
Alachlor ethanesulfonic acid (HM)						
Groundwater - Municipal Water Facilities	111	32	28.8	2.8 - 717	1.7 - 12.5	
Groundwater - Private Residence Wells	34	15	44.1	19 - 2870	1.7 - 12.5	
Groundwater - School/Daycare Wells	23	3	13	2.8 - 76	1.7 ^	

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]
Alachlor oxanilic acid (HM)						
Groundwater - Municipal Water Facilities	111	20	18	1.0 - 4810	0.61 - 10	
Groundwater - Private Residence Wells	34	6	17.6	1.0 - 260	0.61 - 10	
Groundwater - School/Daycare Wells	23	1	4.3	4.8 ^	0.61 ^	
Aldicarb sulfone (IM)						
Groundwater - Municipal Water Facilities	111				4.5 - 7.6	
Groundwater - Private Residence Wells	34	1	2.9	110 ^	4.5 - 7.6	
Groundwater - School/Daycare Wells	23				7.6 ^	
Aldicarb sulfoxide (IM)						
Groundwater - Municipal Water Facilities	111				15 ^	
Groundwater - Private Residence Wells	34				15 ^	
Groundwater - School/Daycare Wells	23				15 ^	
Aminopyralid (H)						
Groundwater - Municipal Water Facilities	19				4.5 ^	3,500,000
Groundwater - Private Residence Wells	17				4.5 ^	3,500,000
Groundwater - School/Daycare Wells	23				4.5 ^	3,500,000
Atrazine (H)						
Groundwater - Municipal Water Facilities	107	10	9.3	1.1 - 39	0.66 - 10	
Groundwater - Private Residence Wells	34	9	26.5	3.4 - 89.3	0.66 - 10	
Groundwater - School/Daycare Wells	23	3	13	8.8 - 54	0.66 ^	
Azinphos methyl (I)						
Groundwater - Municipal Water Facilities	19				10 ^	11,000
Groundwater - Private Residence Wells	17				10 ^	11,000
Groundwater - School/Daycare Wells	23				10 ^	11,000
Azinphos methyl oxygen analog (IM)						
Groundwater - Municipal Water Facilities	111				4.5 - 7.5	
Groundwater - Private Residence Wells	34				4.5 - 7.5	
Groundwater - School/Daycare Wells	23				4.5 ^	
Azoxystrobin (F)						
Groundwater - Municipal Water Facilities	111				0.80 - 3.0	1,260,000
Groundwater - Private Residence Wells	34	3	8.8	4.4 - 662	0.80 - 3.0	1,260,000
Groundwater - School/Daycare Wells	23				0.80 ^	1,260,000
Benfluralin (H)						
Groundwater - Municipal Water Facilities	105				3.6 - 50	35,000
Groundwater - Private Residence Wells	27				3.6 - 50	35,000
Groundwater - School/Daycare Wells	23				3.6 ^	35,000
Bensulfuron methyl (H)						
Groundwater - Municipal Water Facilities	111				1.5 - 5.0	1,400,000
Groundwater - Private Residence Wells	34				1.5 - 5.0	1,400,000
Groundwater - School/Daycare Wells	23				1.5 ^	1,400,000

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]
Bentazon (H)						
Groundwater - Municipal Water Facilities	111	7	6.3	0.30 - 33.8	0.18 - 1.5	
Groundwater - Private Residence Wells	34	1	2.9	2.8 ^	0.18 - 1.5	
Groundwater - School/Daycare Wells	23	1	4.3	290 ^	0.18 ^	
Bifenthrin (I)						
Groundwater - Municipal Water Facilities	107				3.2 - 10	91,000
Groundwater - Private Residence Wells	34				3.2 - 10	91,000
Groundwater - School/Daycare Wells	23				3.2 ^	91,000
Boscalid (F)						
Groundwater - Municipal Water Facilities	88				60 ^	1,526,000
Groundwater - Private Residence Wells	17				60 ^	1,526,000
Bromacil (H)						
Groundwater - Municipal Water Facilities	111				1.2 - 9.0	
Groundwater - Private Residence Wells	34	2	5.9	5.1 - 15	1.2 - 9.0	
Groundwater - School/Daycare Wells	23	3	13	2.0 - 270	1.2 ^	
Bromuconazole 46 (trans) (FM)						
Groundwater - Municipal Water Facilities	111				3.0 - 3.2	
Groundwater - Private Residence Wells	34				3.0 - 3.2	
Groundwater - School/Daycare Wells	23				3.2 ^	
Bromuconazole 47 (cis) (FM)						
Groundwater - Municipal Water Facilities	111				3.0 - 5.4	
Groundwater - Private Residence Wells	34				3.0 - 5.4	
Groundwater - School/Daycare Wells	23				5.4 ^	
Butachlor (H)						
Groundwater - Municipal Water Facilities	19				1.9 ^	
Groundwater - Private Residence Wells	17				1.9 ^	
Groundwater - School/Daycare Wells	23				1.9 ^	
Butylate (H)						
Groundwater - Municipal Water Facilities	19				1.8 ^	
Groundwater - Private Residence Wells	17				1.8 ^	
Groundwater - School/Daycare Wells	23				1.8 ^	
Carbaryl (I)						
Groundwater - Municipal Water Facilities	111				1.2 - 7.5	
Groundwater - Private Residence Wells	34				1.2 - 7.5	
Groundwater - School/Daycare Wells	23				1.2 ^	
Carbendazim (MBC) (F)						
Groundwater - Municipal Water Facilities	84				3.0 ^	175,000
Groundwater - Private Residence Wells	17	3	17.6	5.0 - 17.9	3.0 ^	175,000
Carbofuran (I)						
Groundwater - Municipal Water Facilities	111				0.41 - 4.0	
Groundwater - Private Residence Wells	34	1	2.9	30 ^	0.41 - 4.0	
Groundwater - School/Daycare Wells	23				0.41 ^	

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]
Chlorantraniliprole (I)						
Groundwater - Municipal Water Facilities	111				3.0 - 15	11,060,000
Groundwater - Private Residence Wells	34	1	2.9	80.2 ^	3.0 - 15	11,060,000
Groundwater - School/Daycare Wells	23				3.0 ^	11,060,000
Chlorfenvinphos (I)						
Groundwater - Municipal Water Facilities	19				9.6 ^	
Groundwater - Private Residence Wells	17				9.6 ^	
Groundwater - School/Daycare Wells	23				9.6 ^	
Chlorimuron ethyl (H)						
Groundwater - Municipal Water Facilities	111				5.7 - 6.0	630,000
Groundwater - Private Residence Wells	34				5.7 - 6.0	630,000
Groundwater - School/Daycare Wells	23				5.7 ^	630,000
Chlorothalonil (F)						
Groundwater - Municipal Water Facilities	107				5.2 - 30	
Groundwater - Private Residence Wells	34				5.2 - 30	
Groundwater - School/Daycare Wells	23				5.2 ^	
Chlorpyrifos (I)						
Groundwater - Municipal Water Facilities	105				3.0 - 30	
Groundwater - Private Residence Wells	27				3.0 - 30	
Groundwater - School/Daycare Wells	23				3.0 ^	
Chlorpyrifos oxygen analog (IM)						
Groundwater - Municipal Water Facilities	101				12 - 21	
Groundwater - Private Residence Wells	27				12 - 21	
Groundwater - School/Daycare Wells	23				21 ^	
Chlorsulfuron (H)						
Groundwater - Municipal Water Facilities	19				1.7 ^	140,000
Groundwater - Private Residence Wells	17				1.7 ^	140,000
Groundwater - School/Daycare Wells	23				1.7 ^	140,000
Clomazone (H)						
Groundwater - Municipal Water Facilities	88				30 ^	5,880,000
Groundwater - Private Residence Wells	17				30 ^	5,880,000
Clopyralid (H)						
Groundwater - Municipal Water Facilities	111				3.4 - 12.5	1,050,000
Groundwater - Private Residence Wells	34				3.4 - 12.5	1,050,000
Groundwater - School/Daycare Wells	23				8.1 ^	1,050,000
Clothianidin (I)						
Groundwater - Municipal Water Facilities	111				4.8 - 7.5	686,000
Groundwater - Private Residence Wells	34				4.8 - 7.5	686,000
Groundwater - School/Daycare Wells	23				4.8 ^	686,000
Coumaphos (I)						
Groundwater - Municipal Water Facilities	101				1.7 - 15	2,000
Groundwater - Private Residence Wells	27				1.7 - 15	2,000
Groundwater - School/Daycare Wells	23				1.7 ^	2,000

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]
Coumaphos oxygen analog (IM)						
Groundwater - Municipal Water Facilities	101				1.6 - 9.0	
Groundwater - Private Residence Wells	27				1.6 - 9.0	
Groundwater - School/Daycare Wells	23				1.6 ^	
Cyanazine (H)						
Groundwater - Municipal Water Facilities	107	2	1.9	1.3 ^	0.78 - 50	
Groundwater - Private Residence Wells	34				0.78 - 50	
Groundwater - School/Daycare Wells	23				0.78 ^	
Cycloate (H)						
Groundwater - Municipal Water Facilities	19				3.3 ^	35,000
Groundwater - Private Residence Wells	17				3.3 ^	35,000
Groundwater - School/Daycare Wells	23				3.3 ^	35,000
Cyfluthrin (I)						
Groundwater - Municipal Water Facilities	107				40 - 100	168,000
Groundwater - Private Residence Wells	34				40 - 100	168,000
Groundwater - School/Daycare Wells	23				40 ^	168,000
Cyhalothrin, Lambda (I)						
Groundwater - Municipal Water Facilities	88				50 ^	7,000
Groundwater - Private Residence Wells	17				50 ^	7,000
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (I)						
Groundwater - Municipal Water Facilities	19				42 ^	7,000
Groundwater - Private Residence Wells	17				42 ^	7,000
Groundwater - School/Daycare Wells	23				42 ^	7,000
Cypermethrin (I)						
Groundwater - Municipal Water Facilities	19				74 ^	420,000
Groundwater - Private Residence Wells	17				74 ^	420,000
Groundwater - School/Daycare Wells	23				74 ^	420,000
Cyphenothrin (I)						
Groundwater - Municipal Water Facilities	19				14 ^	
Groundwater - Private Residence Wells	17				14 ^	
Groundwater - School/Daycare Wells	23				14 ^	
Cyproconazole (F)						
Groundwater - Municipal Water Facilities	19				0.72 ^	70,000
Groundwater - Private Residence Wells	17				0.72 ^	70,000
Groundwater - School/Daycare Wells	23				0.72 ^	70,000
DCPA (H)						
Groundwater - Municipal Water Facilities	105				3.6 - 30	
Groundwater - Private Residence Wells	27				3.6 - 30	
Groundwater - School/Daycare Wells	23				3.6 ^	
Deltamethrin (includes parent Tralomethrin) (I)						
Groundwater - Municipal Water Facilities	19				84 ^	70,000
Groundwater - Private Residence Wells	17				84 ^	70,000
Groundwater - School/Daycare Wells	23				84 ^	70,000

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]
Desethyl atrazine (HM)						
Groundwater - Municipal Water Facilities	107	13	12.1	1.6 - 45	0.43 - 10	
Groundwater - Private Residence Wells	34	17	50	0.72 - 140	0.43 - 10	
Groundwater - School/Daycare Wells	23	7	30.4	0.72 - 310	0.43 ^	
Desethyl-desisopropyl atrazine (HM)						
Groundwater - Municipal Water Facilities	111	2	1.8	25 - 80.4	15 - 30	
Groundwater - Private Residence Wells	34	6	17.6	25 - 69	15 - 30	
Groundwater - School/Daycare Wells	23	2	8.7	100 - 170	30 ^	
Desisopropyl atrazine (HM)						
Groundwater - Municipal Water Facilities	107	3	2.8	5.2 - 18	3.1 - 50	
Groundwater - Private Residence Wells	34	4	11.8	5.2 - 23	3.1 - 50	
Groundwater - School/Daycare Wells	23	3	13	5.2 - 35	3.1 ^	
Diazinon (I)						
Groundwater - Municipal Water Facilities	107				3.3 - 30	
Groundwater - Private Residence Wells	34				3.3 - 30	
Groundwater - School/Daycare Wells	23				3.3 ^	
Diazinon oxygen analog (IM)						
Groundwater - Municipal Water Facilities	88				50 ^	
Groundwater - Private Residence Wells	17				50 ^	
Dibromochloropropane (DBCP) (T)						
Groundwater - Municipal Water Facilities	17				8.1 ^	
Groundwater - Private Residence Wells	10				8.1 ^	
Groundwater - School/Daycare Wells	23				8.1 ^	
Dicamba (H)						
Groundwater - Municipal Water Facilities	111				15 - 67	
Groundwater - Private Residence Wells	34				15 - 67	
Groundwater - School/Daycare Wells	23				67 ^	
Dichlobenil (H)						
Groundwater - Municipal Water Facilities	88				5.0 ^	70,000
Groundwater - Private Residence Wells	17				5.0 ^	70,000
Dichlorprop (H)						
Groundwater - Municipal Water Facilities	111				0.73 - 15	
Groundwater - Private Residence Wells	34				0.73 - 15	
Groundwater - School/Daycare Wells	23				0.73 ^	
Dichlorvos (DDVP) (I)						
Groundwater - Municipal Water Facilities	88				30 ^	4,000
Groundwater - Private Residence Wells	17				30 ^	4,000
Dicofol p,p' (I)						
Groundwater - Municipal Water Facilities	19				23 ^	
Groundwater - Private Residence Wells	17				23 ^	
Groundwater - School/Daycare Wells	23				23 ^	

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]
Dicrotophos (I)						
Groundwater - Municipal Water Facilities	101				0.90 - 7.5	500
Groundwater - Private Residence Wells	27				0.90 - 7.5	500
Groundwater - School/Daycare Wells	23				0.90 ^	500
Difenoconazole (F)						
Groundwater - Municipal Water Facilities	111				3.2 - 7.5	70,000
Groundwater - Private Residence Wells	34				3.2 - 7.5	70,000
Groundwater - School/Daycare Wells	23				3.2 ^	70,000
Dimethenamid/Dimethenamid P (H)						
Groundwater - Municipal Water Facilities	107				0.91 - 10	350,000
Groundwater - Private Residence Wells	34				0.91 - 10	350,000
Groundwater - School/Daycare Wells	23				0.91 ^	350,000
Dimethenamid ethanesulfonic acid (HM)						
Groundwater - Municipal Water Facilities	92	7	7.6	3.0 - 10.7	2.0 ^	
Groundwater - Private Residence Wells	17	1	5.9	3.0 ^	2.0 ^	
Dimethenamid oxanilic acid (HM)						
Groundwater - Municipal Water Facilities	111	2	1.8	5.0 - 32.3	0.63 - 3.0	
Groundwater - Private Residence Wells	34				0.63 - 3.0	
Groundwater - School/Daycare Wells	23				0.63 ^	
Dimethoate (I)						
Groundwater - Municipal Water Facilities	107				1.3 - 50	15,000
Groundwater - Private Residence Wells	34				1.3 - 50	15,000
Groundwater - School/Daycare Wells	23				1.3 ^	15,000
Dinoseb (H)						
Groundwater - Municipal Water Facilities	19				0.35 - 0.78	
Groundwater - Private Residence Wells	17				0.35 - 0.78	
Groundwater - School/Daycare Wells	23				0.35 ^	
Dinotefuran (I)						
Groundwater - Municipal Water Facilities	84				7.5 ^	140,000
Groundwater - Private Residence Wells	17				7.5 ^	140,000
Disulfoton (I)						
Groundwater - Municipal Water Facilities	107				8.6 - 50	
Groundwater - Private Residence Wells	34				8.6 - 50	
Groundwater - School/Daycare Wells	23				8.6 ^	
Disulfoton sulfone (IM)						
Groundwater - Municipal Water Facilities	111				2.0 - 6.0	
Groundwater - Private Residence Wells	34				2.0 - 6.0	
Groundwater - School/Daycare Wells	23				2.0 ^	
Diuron (H)						
Groundwater - Municipal Water Facilities	111	1	0.9	23 ^	1.6 - 4.0	
Groundwater - Private Residence Wells	34	5	14.7	2.7 - 11	1.6 - 4.0	
Groundwater - School/Daycare Wells	23	4	17.4	15 - 44	1.6 ^	

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]
Epoxiconazole (F)						
Groundwater - Municipal Water Facilities	111				2.2 - 3.0	140,000
Groundwater - Private Residence Wells	34				2.2 - 3.0	140,000
Groundwater - School/Daycare Wells	23				2.2 ^	140,000
EPTC (H)						
Groundwater - Municipal Water Facilities	107				5.0 - 30	350,000
Groundwater - Private Residence Wells	34				5.0 - 30	350,000
Groundwater - School/Daycare Wells	23				5.0 ^	350,000
Esfenvalerate (I)						
Groundwater - Municipal Water Facilities	88				100 ^	13,000
Groundwater - Private Residence Wells	17				100 ^	13,000
Esfenvalerate+Fenvalerate Total (I)						
Groundwater - Municipal Water Facilities	19				38 ^	
Groundwater - Private Residence Wells	17				38 ^	
Groundwater - School/Daycare Wells	23				38 ^	
Ethalfluralin (H)						
Groundwater - Municipal Water Facilities	88				30 ^	280,000
Groundwater - Private Residence Wells	17				30 ^	280,000
Ethion (I)						
Groundwater - Municipal Water Facilities	19				25 ^	
Groundwater - Private Residence Wells	17				25 ^	
Groundwater - School/Daycare Wells	23				25 ^	
Ethion mono oxon (IM)						
Groundwater - Municipal Water Facilities	17				18 ^	
Groundwater - Private Residence Wells	10				18 ^	
Groundwater - School/Daycare Wells	23				18 ^	
Ethofumesate (H)						
Groundwater - Municipal Water Facilities	107				3.3 - 30	1,980,000
Groundwater - Private Residence Wells	34				3.3 - 30	1,980,000
Groundwater - School/Daycare Wells	23				3.3 ^	1,980,000
Ethoprop (I)						
Groundwater - Municipal Water Facilities	19				5.3 ^	10,000
Groundwater - Private Residence Wells	17				5.3 ^	10,000
Groundwater - School/Daycare Wells	23				5.3 ^	10,000
Fenamiphos (I)						
Groundwater - Municipal Water Facilities	88				100 ^	
Groundwater - Private Residence Wells	17				100 ^	
Fenamiphos sulfone (IM)						
Groundwater - Municipal Water Facilities	101				0.79 - 7.5	
Groundwater - Private Residence Wells	27				0.79 - 7.5	
Groundwater - School/Daycare Wells	23				0.79 ^	

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]
Fenamiphos sulfoxide (IM)						
Groundwater - Municipal Water Facilities	101				1.4 - 7.5	
Groundwater - Private Residence Wells	27				1.4 - 7.5	
Groundwater - School/Daycare Wells	23				1.4 ^	
Fenbuconazole (F)						
Groundwater - Municipal Water Facilities	19				2.4 ^	210,000
Groundwater - Private Residence Wells	17				2.4 ^	210,000
Groundwater - School/Daycare Wells	23				2.4 ^	210,000
Fenitrothion (I)						
Groundwater - Municipal Water Facilities	19				13 ^	9,000
Groundwater - Private Residence Wells	17				13 ^	9,000
Groundwater - School/Daycare Wells	23				13 ^	9,000
Fenitrothion oxygen analog (IM)						
Groundwater - Municipal Water Facilities	105				1.8 - 200	
Groundwater - Private Residence Wells	27				1.8 - 200	
Groundwater - School/Daycare Wells	23				1.8 ^	
Fenpropathrin (I)						
Groundwater - Municipal Water Facilities	19				14 ^	175,000
Groundwater - Private Residence Wells	17				14 ^	175,000
Groundwater - School/Daycare Wells	23				14 ^	175,000
Fenthion (I)						
Groundwater - Municipal Water Facilities	19				22 ^	490
Groundwater - Private Residence Wells	17				22 ^	490
Groundwater - School/Daycare Wells	23				22 ^	490
Fenthion oxygen analog (IM)						
Groundwater - Municipal Water Facilities	88				50 ^	
Groundwater - Private Residence Wells	17				50 ^	
Fipronil (I)						
Groundwater - Municipal Water Facilities	19	1	5.3	5.5 ^	0.35 ^	1,000
Groundwater - Private Residence Wells	17	3	17.6	0.58 - 3.6	0.35 ^	1,000
Groundwater - School/Daycare Wells	23				0.35 ^	1,000
Flufenacet oxanilic acid (HM)						
Groundwater - Municipal Water Facilities	111				0.75 - 2.5	
Groundwater - Private Residence Wells	34				0.75 - 2.5	
Groundwater - School/Daycare Wells	23				0.75 ^	
Flumetsulam (H)						
Groundwater - Municipal Water Facilities	111				8.6 - 15	7,000,000
Groundwater - Private Residence Wells	34				8.6 - 15	7,000,000
Groundwater - School/Daycare Wells	23				8.6 ^	7,000,000
Fluometuron (H)						
Groundwater - Municipal Water Facilities	107				1.6 - 50	
Groundwater - Private Residence Wells	34	1	2.9	220 ^	1.6 - 50	
Groundwater - School/Daycare Wells	23				1.6 ^	

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]
Fluroxypyr (H)						
Groundwater - Municipal Water Facilities	19				4.9 ^	
Groundwater - Private Residence Wells	17				4.9 ^	
Groundwater - School/Daycare Wells	23				4.9 ^	
Fluvalinate (I)						
Groundwater - Municipal Water Facilities	19				130 ^	
Groundwater - Private Residence Wells	17				130 ^	
Groundwater - School/Daycare Wells	23				130 ^	
Fonofos (I)						
Groundwater - Municipal Water Facilities	88				30 ^	
Groundwater - Private Residence Wells	17				30 ^	
Halosulfuron methyl (H)						
Groundwater - Municipal Water Facilities	111				1.8 - 9.0	700,000
Groundwater - Private Residence Wells	34				1.8 - 9.0	700,000
Groundwater - School/Daycare Wells	23				1.8 ^	700,000
Hexaconazole (F)						
Groundwater - Municipal Water Facilities	111				3.0 - 3.3	140,000
Groundwater - Private Residence Wells	34				3.0 - 3.3	140,000
Groundwater - School/Daycare Wells	23				3.3 ^	140,000
Hexazinone (H)						
Groundwater - Municipal Water Facilities	111	4	3.6	0.80 - 9.1	0.50 - 3.0	
Groundwater - Private Residence Wells	34				0.50 - 3.0	
Groundwater - School/Daycare Wells	23				0.50 ^	
Hydroxy atrazine (HM)						
Groundwater - Municipal Water Facilities	111	18	16.2	3.0 - 180	1.2 - 2.0	70,000
Groundwater - Private Residence Wells	34	9	26.5	2.0 - 52	1.2 - 2.0	70,000
Groundwater - School/Daycare Wells	23	1	4.3	2.0 ^	1.2 ^	70,000
3-Hydroxycarbofuran (IM)						
Groundwater - Municipal Water Facilities	101				3.0 - 15	
Groundwater - Private Residence Wells	27				3.0 - 15	
Groundwater - School/Daycare Wells	23				3.0 ^	
Imazamethabenz acid (H)						
Groundwater - Municipal Water Facilities	111				0.60 - 3.0	
Groundwater - Private Residence Wells	34				0.60 - 3.0	
Groundwater - School/Daycare Wells	23				0.60 ^	
Imazamethabenz methyl (H)						
Groundwater - Municipal Water Facilities	111				0.31 - 1.5	
Groundwater - Private Residence Wells	34				0.31 - 1.5	
Groundwater - School/Daycare Wells	23				0.31 ^	
Imazamox (H)						
Groundwater - Municipal Water Facilities	111				1.7 - 4.0	
Groundwater - Private Residence Wells	34				1.7 - 4.0	
Groundwater - School/Daycare Wells	23				1.7 ^	

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 - Municipal Water Facilities	111				0.90 - 3.0	3,500,000
Groundwater - Private Residence Wells	34				0.90 - 3.0	3,500,000
Groundwater - School/Daycare Wells	23				0.90 ^	3,500,000
Imazapyr (H)						
Groundwater - Municipal Water Facilities	111	13	11.7	4.2 - 120	1.0 - 2.5	17,500,000
Groundwater - Private Residence Wells	34	3	8.8	4.2 - 7.4	1.0 - 2.5	17,500,000
Groundwater - School/Daycare Wells	23	1	4.3	130 ^	1.0 ^	17,500,000
Imazaquin (H)						
Groundwater - Municipal Water Facilities	111	3	2.7	1.8 - 45.8	1.1 - 5.0	1,750,000
Groundwater - Private Residence Wells	34				1.1 - 5.0	1,750,000
Groundwater - School/Daycare Wells	23				1.1 ^	1,750,000
Imazethapyr (H)						
Groundwater - Municipal Water Facilities	111	2	1.8	3.0 ^	1.0 - 2.0	17,500,000
Groundwater - Private Residence Wells	34				1.0 - 2.0	17,500,000
Groundwater - School/Daycare Wells	23				1.0 ^	17,500,000
Imidacloprid (H)						
Groundwater - Municipal Water Facilities	111	1	0.9	6.0 ^	3.6 - 6.0	399,000
Groundwater - Private Residence Wells	34	4	11.8	6.0 - 10	3.6 - 6.0	399,000
Groundwater - School/Daycare Wells	23	1	4.3	13 ^	3.6 ^	399,000
Isoxaflutole (H)						
Groundwater - Municipal Water Facilities	92				12 ^	140,000
Groundwater - Private Residence Wells	17				12 ^	140,000
Isoxaflutole degradate (HM)						
Groundwater - Municipal Water Facilities	92				15 ^	
Groundwater - Private Residence Wells	17				15 ^	
Lindane (BHC gamma) (I)						
Groundwater - Municipal Water Facilities	19				20 ^	
Groundwater - Private Residence Wells	17				20 ^	
Groundwater - School/Daycare Wells	23				20 ^	
Linuron (H)						
Groundwater - Municipal Water Facilities	111				1.6 - 6.0	54,000
Groundwater - Private Residence Wells	34				1.6 - 6.0	54,000
Groundwater - School/Daycare Wells	23				1.6 ^	54,000
Malathion (I)						
Groundwater - Municipal Water Facilities	107				10 - 30	
Groundwater - Private Residence Wells	34				10 - 30	
Groundwater - School/Daycare Wells	23				10 ^	
Malathion oxygen analog (IM)						
Groundwater - Municipal Water Facilities	105				0.37 - 600	
Groundwater - Private Residence Wells	27				0.37 - 600	
Groundwater - School/Daycare Wells	23				0.37 ^	

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]
MCPA (H)						
Groundwater - Municipal Water Facilities	111				0.39 - 1.5	
Groundwater - Private Residence Wells	34	5	14.7	5.4 - 31.1	0.39 - 1.5	
Groundwater - School/Daycare Wells	23				0.39 ^	
MCPB (H)						
Groundwater - Municipal Water Facilities	111				6.0 - 12	
Groundwater - Private Residence Wells	34				6.0 - 12	
Groundwater - School/Daycare Wells	23				12 ^	
Mecoprop (MCPP) (H)						
Groundwater - Municipal Water Facilities	111	2	1.8	0.52 ^	0.31 - 15	280,000
Groundwater - Private Residence Wells	34	4	11.8	17 - 139	0.31 - 15	280,000
Groundwater - School/Daycare Wells	23				0.31 ^	280,000
Mesotrione (H)						
Groundwater - Municipal Water Facilities	92				15 ^	49,000
Groundwater - Private Residence Wells	17				15 ^	49,000
Metalaxyl/Mefenoxam * (F)						
Groundwater - Municipal Water Facilities	111				1.0 - 2.5	
Groundwater - Private Residence Wells	34	3	8.8	4.2 - 130	1.0 - 2.5	
Groundwater - School/Daycare Wells	23				1.0 ^	
Methidathion (I)						
Groundwater - Municipal Water Facilities	88				100 ^	11,000
Groundwater - Private Residence Wells	17				100 ^	11,000
Methomyl (I)						
Groundwater - Municipal Water Facilities	111				7.3 - 7.5	
Groundwater - Private Residence Wells	34				7.3 - 7.5	
Groundwater - School/Daycare Wells	23				7.3 ^	
Methoxychlor olefin (IM)						
Groundwater - Municipal Water Facilities	17				3.6 ^	
Groundwater - Private Residence Wells	10				3.6 ^	
Groundwater - School/Daycare Wells	23				3.6 ^	
Methoxychlor p,p' (IM)						
Groundwater - Municipal Water Facilities	17				19 ^	
Groundwater - Private Residence Wells	10				19 ^	
Groundwater - School/Daycare Wells	23				19 ^	
Methoxychlor Total (I)						
Groundwater - Municipal Water Facilities	88				50 ^	
Groundwater - Private Residence Wells	17				50 ^	
Metolachlor (H)						
Groundwater - Municipal Water Facilities	107	2	1.9	2.5 - 6.0	1.5 - 15	
Groundwater - Private Residence Wells	34	3	8.8	2.5 - 48	1.5 - 15	
Groundwater - School/Daycare Wells	23				1.5 ^	

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]
Metolachlor ethanesulfonic acid (HM)						
Groundwater - Municipal Water Facilities	111	60	54.1	1.7 - 840	0.36 - 3.0	
Groundwater - Private Residence Wells	34	20	58.8	0.60 - 6100	0.36 - 3.0	
Groundwater - School/Daycare Wells	23	5	21.7	0.60 - 330	0.36 ^	
Metolachlor oxanilic acid (HM)						
Groundwater - Municipal Water Facilities	111	42	37.8	3.0 - 3350	1.8 - 3.2	
Groundwater - Private Residence Wells	34	10	29.4	7.8 - 1500	1.8 - 3.2	
Groundwater - School/Daycare Wells	23	2	8.7	3.0 - 28	1.8 ^	
Metribuzin (H)						
Groundwater - Municipal Water Facilities	88				30 ^	
Groundwater - Private Residence Wells	17				30 ^	
Metribuzin DA (HM)						
Groundwater - Municipal Water Facilities	92	1	1.1	26.2 ^	6.0 ^	
Groundwater - Private Residence Wells	17				6.0 ^	
Metsulfuron methyl (H)						
Groundwater - Municipal Water Facilities	111				1.5 - 7.0	
Groundwater - Private Residence Wells	34				1.5 - 7.0	
Groundwater - School/Daycare Wells	23				1.5 ^	
Myclobutanil (F)						
Groundwater - Municipal Water Facilities	107				1.6 - 50	175,000
Groundwater - Private Residence Wells	34				1.6 - 50	175,000
Groundwater - School/Daycare Wells	23				1.6 ^	175,000
1-Naphthol (IM)						
Groundwater - Municipal Water Facilities	88				30 ^	
Groundwater - Private Residence Wells	17				30 ^	
Neburon (H)						
Groundwater - Municipal Water Facilities	111				3.0 - 4.8	
Groundwater - Private Residence Wells	34				3.0 - 4.8	
Groundwater - School/Daycare Wells	23				4.8 ^	
Nicosulfuron (H)						
Groundwater - Municipal Water Facilities	111	1	0.9	13 ^	1.7 - 8.0	8,750,000
Groundwater - Private Residence Wells	34				1.7 - 8.0	8,750,000
Groundwater - School/Daycare Wells	23				1.7 ^	8,750,000
Norflurazon (H)						
Groundwater - Municipal Water Facilities	111				4.8 - 6.0	105,000
Groundwater - Private Residence Wells	34	1	2.9	92 ^	4.8 - 6.0	105,000
Groundwater - School/Daycare Wells	23	1	4.3	8.0 ^	4.8 ^	105,000
Norflurazon desmethyl (HM)						
Groundwater - Municipal Water Facilities	101				1.8 - 15	
Groundwater - Private Residence Wells	27				1.8 - 15	
Groundwater - School/Daycare Wells	23	2	8.7	12 - 27	1.8 ^	

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]
Omethoate (IM)						
Groundwater - Municipal Water Facilities	111				0.30 - 7.5	
Groundwater - Private Residence Wells	34				0.30 - 7.5	
Groundwater - School/Daycare Wells	23				0.30 ^	
Oxadiazon (H)						
Groundwater - Municipal Water Facilities	88				30 ^	
Groundwater - Private Residence Wells	17				30 ^	
Oxadixyl (F)						
Groundwater - Municipal Water Facilities	101				1.8 - 15	
Groundwater - Private Residence Wells	27				1.8 - 15	
Groundwater - School/Daycare Wells	23				1.8 ^	
Oxamyl (I)						
Groundwater - Municipal Water Facilities	111				3.0 - 7.5	
Groundwater - Private Residence Wells	34				3.0 - 7.5	
Groundwater - School/Daycare Wells	23				3.0 ^	
Oxydemeton methyl (I)						
Groundwater - Municipal Water Facilities	101				0.97 - 6.0	700
Groundwater - Private Residence Wells	27				0.97 - 6.0	700
Groundwater - School/Daycare Wells	23				0.97 ^	700
Oxydemeton methyl sulfone (IM)						
Groundwater - Municipal Water Facilities	17				2.0 ^	
Groundwater - Private Residence Wells	10				2.0 ^	
Groundwater - School/Daycare Wells	23				2.0 ^	
Parathion (I)						
Groundwater - Municipal Water Facilities	19				15 ^	200
Groundwater - Private Residence Wells	17				15 ^	200
Groundwater - School/Daycare Wells	23				15 ^	200
Parathion methyl (I)						
Groundwater - Municipal Water Facilities	107				30 - 53	
Groundwater - Private Residence Wells	34				30 - 53	
Groundwater - School/Daycare Wells	23				53 ^	
Parathion methyl oxygen analog (IM)						
Groundwater - Municipal Water Facilities	111				3.6 - 7.5	
Groundwater - Private Residence Wells	34				3.6 - 7.5	
Groundwater - School/Daycare Wells	23				3.6 ^	
Pendimethalin (H)						
Groundwater - Municipal Water Facilities	88				30 ^	210,000
Groundwater - Private Residence Wells	17				30 ^	210,000
Permethrin cis (IM)						
Groundwater - Municipal Water Facilities	107				9.0 - 50	1,750,000
Groundwater - Private Residence Wells	34				9.0 - 50	1,750,000
Groundwater - School/Daycare Wells	23				9.0 ^	1,750,000

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]
Permethrin trans (IM)						
Groundwater - Municipal Water Facilities	107				7.5 - 50	1,750,000
Groundwater - Private Residence Wells	34				7.5 - 50	1,750,000
Groundwater - School/Daycare Wells	23				7.5 ^	1,750,000
Phenothrin (I)						
Groundwater - Municipal Water Facilities	19				27 ^	
Groundwater - Private Residence Wells	17				27 ^	
Groundwater - School/Daycare Wells	23				27 ^	
Phorate (I)						
Groundwater - Municipal Water Facilities	107				12 - 30	4,000
Groundwater - Private Residence Wells	34				12 - 30	4,000
Groundwater - School/Daycare Wells	23				12 ^	4,000
Phorate oxygen analog (IM)						
Groundwater - Municipal Water Facilities	88				50 ^	
Groundwater - Private Residence Wells	17				50 ^	
Phorate sulfone (IM)						
Groundwater - Municipal Water Facilities	105				1.8 - 100	
Groundwater - Private Residence Wells	27				1.8 - 100	
Groundwater - School/Daycare Wells	23				1.8 ^	
Phorate sulfoxide (IM)						
Groundwater - Municipal Water Facilities	105				0.44 - 100	
Groundwater - Private Residence Wells	27				0.44 - 100	
Groundwater - School/Daycare Wells	23				0.44 ^	
Phosmet (I)						
Groundwater - Municipal Water Facilities	88				100 ^	42,000
Groundwater - Private Residence Wells	17				100 ^	42,000
Picloram (H)						
Groundwater - Municipal Water Facilities	111				10 - 22	
Groundwater - Private Residence Wells	34	1	2.9	20.8 ^	10 - 22	
Groundwater - School/Daycare Wells	23				10 ^	
Prallethrin (I)						
Groundwater - Municipal Water Facilities	19				25 ^	350,000
Groundwater - Private Residence Wells	17				25 ^	350,000
Groundwater - School/Daycare Wells	23				25 ^	350,000
Prometon (H)						
Groundwater - Municipal Water Facilities	107	7	6.5	0.28 - 39	0.17 - 30	
Groundwater - Private Residence Wells	34	6	17.6	0.59 - 50	0.17 - 30	
Groundwater - School/Daycare Wells	23	2	8.7	0.28 ^	0.17 ^	
Prometryn (H)						
Groundwater - Municipal Water Facilities	111				0.17 - 1.0	280,000
Groundwater - Private Residence Wells	34				0.17 - 1.0	280,000
Groundwater - School/Daycare Wells	23				0.17 ^	280,000

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]
Propachlor (H)						
Groundwater - Municipal Water Facilities	107				0.64 - 30	
Groundwater - Private Residence Wells	34				0.64 - 30	
Groundwater - School/Daycare Wells	23				0.64 ^	
Propachlor ESA (HM)						
Groundwater - Municipal Water Facilities	92				9.0 ^	
Groundwater - Private Residence Wells	17				9.0 ^	
Propachlor oxanilic acid (HM)						
Groundwater - Municipal Water Facilities	111	1	0.9	5.0 ^	1.4 - 3.0	
Groundwater - Private Residence Wells	34				1.4 - 3.0	
Groundwater - School/Daycare Wells	23				1.4 ^	
Propanil (H)						
Groundwater - Municipal Water Facilities	107				2.2 - 30	63,000
Groundwater - Private Residence Wells	34				2.2 - 30	63,000
Groundwater - School/Daycare Wells	23				2.2 ^	63,000
Propazine (H)						
Groundwater - Municipal Water Facilities	107	3	2.8	0.70 ^	0.42 - 30	
Groundwater - Private Residence Wells	34	1	2.9	0.70 ^	0.42 - 30	
Groundwater - School/Daycare Wells	23	3	13	1.4 - 9.8	0.42 ^	
Propiconazole (F)						
Groundwater - Municipal Water Facilities	107				3.4 - 50	700,000
Groundwater - Private Residence Wells	34	1	2.9	5.7 ^	3.4 - 50	700,000
Groundwater - School/Daycare Wells	23				3.4 ^	700,000
Propoxur (I)						
Groundwater - Municipal Water Facilities	92				6.0 ^	
Groundwater - Private Residence Wells	17				6.0 ^	
Prosulfuron (H)						
Groundwater - Municipal Water Facilities	19				1.5 ^	371,000
Groundwater - Private Residence Wells	17				1.5 ^	371,000
Groundwater - School/Daycare Wells	23				1.5 ^	371,000
Pyrasulfotole (H)						
Groundwater - Municipal Water Facilities	19				2.8 ^	70,000
Groundwater - Private Residence Wells	17				2.8 ^	70,000
Groundwater - School/Daycare Wells	23				2.8 ^	70,000
Pyroxsulam (H)						
Groundwater - Municipal Water Facilities	19				3.9 ^	7,000,000
Groundwater - Private Residence Wells	17				3.9 ^	7,000,000
Groundwater - School/Daycare Wells	23				3.9 ^	7,000,000
Resmethrin (I)						
Groundwater - Municipal Water Facilities	19				7.8 ^	245,000
Groundwater - Private Residence Wells	17				7.8 ^	245,000
Groundwater - School/Daycare Wells	23				7.8 ^	245,000

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]
Saflufenacil (H)						
Groundwater - Municipal Water Facilities	92				4.5 ^	322,000
Groundwater - Private Residence Wells	17				4.5 ^	322,000
Siduron (H)						
Groundwater - Municipal Water Facilities	111				1.0 - 2.0	1,050,000
Groundwater - Private Residence Wells	34	1	2.9	4.6 ^	1.0 - 2.0	1,050,000
Groundwater - School/Daycare Wells	23				1.0 ^	1,050,000
Simazine (H)						
Groundwater - Municipal Water Facilities	107	3	2.8	1.2 - 23	0.71 - 30	
Groundwater - Private Residence Wells	34	4	11.8	1.2 - 5.9	0.71 - 30	
Groundwater - School/Daycare Wells	23	2	8.7	1.2 - 2.6	0.71 ^	
Sulfometuron methyl (H)						
Groundwater - Municipal Water Facilities	111				0.76 - 2.5	1,925,000
Groundwater - Private Residence Wells	34				0.76 - 2.5	1,925,000
Groundwater - School/Daycare Wells	23				0.76 ^	1,925,000
Tebuconazole (F)						
Groundwater - Municipal Water Facilities	107				2.1 - 50	203,000
Groundwater - Private Residence Wells	34	2	5.9	3.5 - 7.1	2.1 - 50	203,000
Groundwater - School/Daycare Wells	23				2.1 ^	203,000
Tebupirimfos (I)						
Groundwater - Municipal Water Facilities	88				30 ^	100
Groundwater - Private Residence Wells	17				30 ^	100
Tebuthiuron (H)						
Groundwater - Municipal Water Facilities	107	6	5.6	0.35 - 3.4	0.21 - 30	
Groundwater - Private Residence Wells	34	2	5.9	1.4 - 1.5	0.21 - 30	
Groundwater - School/Daycare Wells	23				0.21 ^	
Tefluthrin (I)						
Groundwater - Municipal Water Facilities	19				2.1 ^	
Groundwater - Private Residence Wells	17				2.1 ^	
Groundwater - School/Daycare Wells	23				2.1 ^	
Tembotrione (H)						
Groundwater - Municipal Water Facilities	111				5.5 - 15	3,000
Groundwater - Private Residence Wells	34				5.5 - 15	3,000
Groundwater - School/Daycare Wells	23				5.5 ^	3,000
Terbacil (H)						
Groundwater - Municipal Water Facilities	19				0.71 - 1.6	
Groundwater - Private Residence Wells	17				0.71 - 1.6	
Groundwater - School/Daycare Wells	23				0.71 ^	
Terbufos (I)						
Groundwater - Municipal Water Facilities	107				6.3 - 30	
Groundwater - Private Residence Wells	34				6.3 - 30	
Groundwater - School/Daycare Wells	23				6.3 ^	

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]
Terbufos sulfone (IM)						
Groundwater - Municipal Water Facilities	17				1.6 ^	
Groundwater - Private Residence Wells	10				1.6 ^	
Groundwater - School/Daycare Wells	23				1.6 ^	
Tetrachlorvinphos (I)						
Groundwater - Municipal Water Facilities	19				7.5 ^	296,000
Groundwater - Private Residence Wells	17				7.5 ^	296,000
Groundwater - School/Daycare Wells	23				7.5 ^	296,000
Tetraconazole (F)						
Groundwater - Municipal Water Facilities	107				1.2 - 30	51,000
Groundwater - Private Residence Wells	34				1.2 - 30	51,000
Groundwater - School/Daycare Wells	23				1.2 ^	51,000
Tetradifon (I)						
Groundwater - Municipal Water Facilities	19				7.2 ^	
Groundwater - Private Residence Wells	17				7.2 ^	
Groundwater - School/Daycare Wells	23				7.2 ^	
Tetramethrin (I)						
Groundwater - Municipal Water Facilities	19				28 ^	
Groundwater - Private Residence Wells	17				28 ^	
Groundwater - School/Daycare Wells	23				28 ^	
Thiamethoxam (I)						
Groundwater - Municipal Water Facilities	111				6.1 - 7.5	84,000
Groundwater - Private Residence Wells	34				6.1 - 7.5	84,000
Groundwater - School/Daycare Wells	23				6.1 ^	84,000
Thifensulfuron (H)						
Groundwater - Municipal Water Facilities	19				3.4 ^	
Groundwater - Private Residence Wells	17				3.4 ^	
Groundwater - School/Daycare Wells	23				3.4 ^	
Thifensulfuron methyl (H)						
Groundwater - Municipal Water Facilities	92				5.0 ^	301,000
Groundwater - Private Residence Wells	17				5.0 ^	301,000
Thiobencarb (H)						
Groundwater - Municipal Water Facilities	111				2.5 - 3.9	
Groundwater - Private Residence Wells	34				2.5 - 3.9	
Groundwater - School/Daycare Wells	23				3.9 ^	
Tri Allate (H)						
Groundwater - Municipal Water Facilities	107				12 - 30	175,000
Groundwater - Private Residence Wells	34				12 - 30	175,000
Groundwater - School/Daycare Wells	23				12 ^	175,000
Triadimefon (F)						
Groundwater - Municipal Water Facilities	19				1.3 ^	238,000
Groundwater - Private Residence Wells	17				1.3 ^	238,000
Groundwater - School/Daycare Wells	23				1.3 ^	238,000

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]
Triadimenol (F)						
Groundwater - Municipal Water Facilities	111				6.0 - 11	24,000
Groundwater - Private Residence Wells	34	2	5.9	10 - 261	6.0 - 11	24,000
Groundwater - School/Daycare Wells	23				11 ^	24,000
Triasulfuron (H)						
Groundwater - Municipal Water Facilities	111				1.7 - 7.0	70,000
Groundwater - Private Residence Wells	34				1.7 - 7.0	70,000
Groundwater - School/Daycare Wells	23				1.7 ^	70,000
Triclopyr (H)						
Groundwater - Municipal Water Facilities	111				1.6 - 15	350,000
Groundwater - Private Residence Wells	34	2	5.9	2.7 - 7.0	1.6 - 15	350,000
Groundwater - School/Daycare Wells	23				1.6 ^	350,000
Trifluralin (H)						
Groundwater - Municipal Water Facilities	88				30 ^	
Groundwater - Private Residence Wells	17				30 ^	
Triticonazole (F)						
Groundwater - Municipal Water Facilities	107				4.7 - 500	1,190,000
Groundwater - Private Residence Wells	34	1	2.9	832 ^	4.7 - 500	1,190,000
Groundwater - School/Daycare Wells	23				4.7 ^	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
T = Nematicide

Appendix F

Distribution of Residues by Pesticide in Drinking Water

Appendix F 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 2012, the Pesticide Data Program (PDP) analyzed 485 drinking water samples, including 232 finished drinking water samples and 253 untreated (raw intake) drinking water samples. PDP detected 59 different residues (including metabolites), representing 48 pesticides, in finished drinking water and 74 different residues (including metabolites), representing 61 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 G).

APPENDIX F. 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	232				0.84 - 15				
Water, Untreated	253				0.84 - 15				
2,4,5-TP (H)									
Water, Finished	232				0.68 - 15				
Water, Untreated	253				0.68 - 15				
2,4-D (H)									
Water, Finished	232	198	85.3	1.1 - 820	0.65 - 2.5	70,000			
Water, Untreated	253	220	87	1.1 - 1800	0.65 - 2.5				
2,4-DB (H)									
Water, Finished	232				6.0 - 39				
Water, Untreated	253				6.0 - 39				
Acetamiprid (I)									
Water, Finished	232				1.7 - 7.5				497,000
Water, Untreated	253				1.7 - 7.5				
Acetochlor (H)									
Water, Finished	232	16	6.9	15.3 - 86	9.2 - 10				140,000
Water, Untreated	253	25	9.9	15.3 - 250	9.2 - 10				
Acetochlor ethanesulfonic acid (HM)									
Water, Finished	232	164	70.7	2.7 - 380	1.6 - 9.0				
Water, Untreated	253	195	77.1	2.7 - 810	1.6 - 9.0				
Acetochlor oxanilic acid (HM)									
Water, Finished	232	148	63.8	2.3 - 900	1.4 - 10				
Water, Untreated	253	174	68.8	2.3 - 1500	1.4 - 10				
Alachlor (H)									
Water, Finished	232				7.8 - 10	2,000			
Water, Untreated	253	1	0.4	13 ^	7.8 - 10				
Alachlor ethanesulfonic acid (HM)									
Water, Finished	232	170	73.3	2.8 - 79.1	1.7 - 12.5				
Water, Untreated	253	189	74.7	2.8 - 476	1.7 - 12.5				
Alachlor oxanilic acid (HM)									
Water, Finished	232	134	57.8	1.0 - 22	0.61 - 10				
Water, Untreated	253	153	60.5	1.0 - 36	0.61 - 10				
Aldicarb sulfone (IM)									
Water, Finished	232				4.5 - 7.6	2,000	7,000		
Water, Untreated	253				4.5 - 7.6				
Aldicarb sulfoxide (IM)									
Water, Finished	225				15 ^	4,000	7,000		
Water, Untreated	245				15 ^				
Aminopyralid (H)									
Water, Finished	178				4.5 ^				3,500,000
Water, Untreated	199				4.5 ^				
Atrazine (H)									
Water, Finished	232	204	87.9	1.1 - 810	0.66 - 10	3,000			
Water, Untreated	253	225	88.9	1.1 - 8200	0.66 - 10				
Azinphos methyl (I)									
Water, Finished	178				10 ^				11,000
Water, Untreated	199				10 ^				
Azinphos methyl oxygen analog (IM)									
Water, Finished	232				4.5 - 7.5				
Water, Untreated	253				4.5 - 7.5				
Azoxystrobin (F)									
Water, Finished	232	120	51.7	1.3 - 99	0.80 - 3.0				1,260,000
Water, Untreated	253	146	57.7	1.3 - 76	0.80 - 3.0				

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]
Benfluralin (H)									
Water, Finished	232				3.6 - 50				35,000
Water, Untreated	253				3.6 - 50				
Bensulfuron methyl (H)									
Water, Finished	232				1.5 - 5.0				1,400,000
Water, Untreated	253				1.5 - 5.0				
Bentazon (H)									
Water, Finished	232	143	61.6	0.30 - 100	0.18 - 1.5		200,000		
Water, Untreated	253	192	75.9	0.30 - 47	0.18 - 1.5				
Bifenthrin (I)									
Water, Finished	232				3.2 - 10				91,000
Water, Untreated	253				3.2 - 10				
Boscalid (F)									
Water, Finished	54				60 ^				1,526,000
Water, Untreated	54				60 ^				
Bromacil (H)									
Water, Finished	232				1.2 - 9.0		70,000		
Water, Untreated	253	27	10.7	2.0 - 30.6	1.2 - 9.0				
Bromuconazole 46 (trans) (FM)									
Water, Finished	232				3.0 - 3.2				
Water, Untreated	253				3.0 - 3.2				
Bromuconazole 47 (cis) (FM)									
Water, Finished	232				3.0 - 5.4				
Water, Untreated	253				3.0 - 5.4				
Butachlor (H)									
Water, Finished	178				1.9 ^				
Water, Untreated	199				1.9 ^				
Butylate (H)									
Water, Finished	178				1.8 ^		400,000		
Water, Untreated	199				1.8 ^				
Carbaryl (I)									
Water, Finished	232	7	3	2.0 - 4.4	1.2 - 7.5				
Water, Untreated	253	5	2	2.0 - 10	1.2 - 7.5				
Carbendazim - MBC (F)									
Water, Finished	54				3.0 ^				175,000
Water, Untreated	54	1	1.9	5.0 ^	3.0 ^				
Carbofuran (I)									
Water, Finished	232				0.41 - 4.0	40,000			
Water, Untreated	253				0.41 - 4.0				
Chlorantraniliprole (I)									
Water, Finished	232				3.0 - 15				11,060,000
Water, Untreated	253	11	4.3	5.0 - 18	3.0 - 15				
Chlorfenvinphos (I)									
Water, Finished	178				9.6 ^				
Water, Untreated	199				9.6 ^				
Chlorimuron ethyl (H)									
Water, Finished	232	1	0.4	10 ^	5.7 - 6.0				630,000
Water, Untreated	253	45	17.8	9.5 - 120	5.7 - 6.0				
Chlorothalonil (F)									
Water, Finished	232				5.2 - 30				
Water, Untreated	253				5.2 - 30				
Chlorpyrifos (I)									
Water, Finished	232				3.0 - 30		2,000		
Water, Untreated	253				3.0 - 30			83	
Chlorpyrifos oxygen analog (IM)									
Water, Finished	232				12 - 21				
Water, Untreated	253				12 - 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]
Chlorsulfuron (H)									
Water, Finished	178				1.7 ^				140,000
Water, Untreated	199				1.7 ^				
Clomazone (H)									
Water, Finished	54				30 ^				5,880,000
Water, Untreated	54				30 ^				
Clopyralid (H)									
Water, Finished	232	22	9.5	13.5 - 88	8.1 - 12.5				1,050,000
Water, Untreated	253	2	0.8	13.5 ^	8.1 - 12.5				
Clothianidin (I)									
Water, Finished	232	7	3	8.0 - 12.5	4.8 - 7.5				686,000
Water, Untreated	253	16	6.3	8.0 - 29	4.8 - 7.5				
Coumaphos (I)									
Water, Finished	232				1.7 - 15				2,000
Water, Untreated	253				1.7 - 15				
Coumaphos oxygen analog (IM)									
Water, Finished	232				1.6 - 9.0				
Water, Untreated	253				1.6 - 9.0				
Cyanazine (H)									
Water, Finished	232				0.78 - 50		1000		
Water, Untreated	253				0.78 - 50				
Cycloate (H)									
Water, Finished	178				3.3 ^				35,000
Water, Untreated	199				3.3 ^				
Cyfluthrin (I)									
Water, Finished	232				40 - 100				168,000
Water, Untreated	253				40 - 100				
Cyhalothrin, Lambda (I)									
Water, Finished	54				50 ^				7,000
Water, Untreated	54				50 ^				
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (I)									
Water, Finished	178				42 ^				7,000
Water, Untreated	199				42 ^				
Cypermethrin (I)									
Water, Finished	178				74 ^				420,000
Water, Untreated	199				74 ^				
Cyphenothrin (I)									
Water, Finished	178				14 ^				
Water, Untreated	199				14 ^				
Cyproconazole (F)									
Water, Finished	178				0.72 ^				70,000
Water, Untreated	199				0.72 ^				
DCPA (H)									
Water, Finished	232				3.6 - 30		70,000		
Water, Untreated	253				3.6 - 30				
Deltamethrin (includes parent Tralomethrin) (I)									
Water, Finished	178				84 ^				70,000
Water, Untreated	199				84 ^				
Desethyl atrazine (HM)									
Water, Finished	232	203	87.5	1.7 - 490	0.43 - 10				
Water, Untreated	253	222	87.7	0.72 - 1300	0.43 - 10				
Desethyl-desisopropyl atrazine (HM)									
Water, Finished	232	26	11.2	25 - 50	15 - 30				
Water, Untreated	253	50	19.8	25 - 120	15 - 30				
Desisopropyl atrazine (HM)									
Water, Finished	232	107	46.1	5.2 - 190	3.1 - 50				
Water, Untreated	253	125	49.4	5.2 - 600	3.1 - 50				

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]
Diazinon (I)									
Water, Finished	232				3.3 - 30		1,000		
Water, Untreated	253				3.3 - 30				
Diazinon oxygen analog (IM)									
Water, Finished	54				50 ^				
Water, Untreated	54				50 ^				
Dibromochloropropane - DBCP (T)									
Water, Finished	178				8.1 ^				
Water, Untreated	199				8.1 ^				
Dicamba (H)									
Water, Finished	232				15 - 67		4,000,000		
Water, Untreated	253				15 - 67				
Dichlobenil (H)									
Water, Finished	54				5.0 ^				70,000
Water, Untreated	54				5.0 ^				
Dichlorprop (H)									
Water, Finished	232	4	1.7	1.2 ^	0.73 - 15				
Water, Untreated	253	12	4.7	1.2 ^	0.73 - 15				
Dichlorvos - DDVP (I)									
Water, Finished	54				30 ^				4,000
Water, Untreated	54				30 ^				
Dicofol p,p' (I)									
Water, Finished	178				23 ^				
Water, Untreated	199				23 ^				
Dicrotophos (I)									
Water, Finished	232	4	1.7	1.5 - 3.4	0.90 - 7.5				500
Water, Untreated	253	3	1.2	1.5 ^	0.90 - 7.5				
Difenoconazole (F)									
Water, Finished	232	1	0.4	5.3 ^	3.2 - 7.5				70,000
Water, Untreated	253	1	0.4	5.3 ^	3.2 - 7.5				
Dimethenamid/Dimethenamid P (H)									
Water, Finished	232	46	19.8	1.5 - 38	0.91 - 10				350,000
Water, Untreated	253	75	29.6	1.5 - 220	0.91 - 10				
Dimethenamid ethanesulfonic acid (HM)									
Water, Finished	54				2.0 ^				
Water, Untreated	54				2.0 ^				
Dimethenamid oxanilic acid (HM)									
Water, Finished	232	29	12.5	1.0 - 4.8	0.63 - 3.0				
Water, Untreated	253	68	26.9	1.0 - 57	0.63 - 3.0				
Dimethoate (I)									
Water, Finished	232				1.3 - 50				15,000
Water, Untreated	253				1.3 - 50				
Dinoseb (H)									
Water, Finished	178	14	7.9	0.58 - 2.8	0.35 ^	7,000	7,000		
Water, Untreated	199	7	3.5	0.58 ^	0.35 ^				
Dinotefuran (I)									
Water, Finished	54				7.5 ^				140,000
Water, Untreated	54	1	1.9	12.5 ^	7.5 ^				
Disulfoton (I)									
Water, Finished	232				8.6 - 50		700		
Water, Untreated	253				8.6 - 50				
Disulfoton sulfone (IM)									
Water, Finished	232				2.0 - 6.0				
Water, Untreated	253				2.0 - 6.0				
Diuron (H)									
Water, Finished	232	85	36.6	2.7 - 49.6	1.6 - 4.0				
Water, Untreated	253	118	46.6	2.7 - 83.4	1.6 - 4.0				

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]
Epoxiconazole (F)									
Water, Finished	232				2.2 - 3.0				140,000
Water, Untreated	253				2.2 - 3.0				
EPTC (H)									
Water, Finished	232				5.0 - 30				350,000
Water, Untreated	253				5.0 - 30				
Esfenvalerate (I)									
Water, Finished	54				100 ^				13,000
Water, Untreated	54				100 ^				
Esfenvalerate+Fenvalerate Total (I)									
Water, Finished	178				38 ^				
Water, Untreated	199				38 ^				
Ethalfluralin (H)									
Water, Finished	54				30 ^				280,000
Water, Untreated	54				30 ^				
Ethion (I)									
Water, Finished	178				25 ^				
Water, Untreated	199				25 ^				
Ethion mono oxon (IM)									
Water, Finished	178				18 ^				
Water, Untreated	199				18 ^				
Ethofumesate (H)									
Water, Finished	232	5	2.2	5.5 - 29	3.3 - 30				1,980,000
Water, Untreated	253	1	0.4	17 ^	3.3 - 30				
Ethoprop (I)									
Water, Finished	178				5.3 ^				10,000
Water, Untreated	199				5.3 ^				
Fenamiphos (I)									
Water, Finished	54				100 ^		700		
Water, Untreated	54				100 ^				
Fenamiphos sulfone (IM)									
Water, Finished	232				0.79 - 7.5				
Water, Untreated	253				0.79 - 7.5				
Fenamiphos sulfoxide (IM)									
Water, Finished	232				1.4 - 7.5				
Water, Untreated	253				1.4 - 7.5				
Fenbuconazole (F)									
Water, Finished	178				2.4 ^				210,000
Water, Untreated	199				2.4 ^				
Fenitrothion (I)									
Water, Finished	178				13 ^				9,000
Water, Untreated	199				13 ^				
Fenitrothion oxygen analog (IM)									
Water, Finished	232				1.8 - 200				
Water, Untreated	253				1.8 - 200				
Fenpropathrin (I)									
Water, Finished	178				14 ^				175,000
Water, Untreated	199				14 ^				
Fenthion (I)									
Water, Finished	178				22 ^				490
Water, Untreated	199				22 ^				
Fenthion-O analog (IM)									
Water, Finished	54				50 ^				
Water, Untreated	54				50 ^				
Fipronil (I)									
Water, Finished	178				0.35 ^				1,000
Water, Untreated	199	28	14.1	0.58 - 2.8	0.35 ^				

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]
Flufenacet oxanilic acid (HM)									
Water, Finished	232				0.75 - 2.5				
Water, Untreated	253				0.75 - 2.5				
Flumetsulam (H)									
Water, Finished	232				8.6 - 15				7,000,000
Water, Untreated	253				8.6 - 15				
Fluometuron (H)									
Water, Finished	232	2	0.9	2.7 ^	1.6 - 50		90,000		
Water, Untreated	253	8	3.2	2.7 - 100	1.6 - 50				
Fluroxypyr-meptyl (H)									
Water, Finished	178				4.9 ^				
Water, Untreated	199				4.9 ^				
Fluvalinate (I)									
Water, Finished	178				130 ^				
Water, Untreated	199				130 ^				
Fonofos (I)									
Water, Finished	54				30 ^		10,000		
Water, Untreated	54				30 ^				
Halosulfuron methyl (H)									
Water, Finished	232				1.8 - 9.0				700,000
Water, Untreated	253				1.8 - 9.0				
Hexaconazole (F)									
Water, Finished	232				3.0 - 3.3				140,000
Water, Untreated	253				3.0 - 3.3				
Hexazinone (H)									
Water, Finished	232	34	14.7	0.80 - 42	0.50 - 3.0				
Water, Untreated	253	30	11.9	0.80 - 36	0.50 - 3.0				
Hydroxy atrazine (HM)									
Water, Finished	232	207	89.2	2.0 - 740	1.2 - 2.0				70,000
Water, Untreated	253	228	90.1	2.0 - 1200	1.2 - 2.0				
3-Hydroxycarbofuran (IM)									
Water, Finished	232				3.0 - 15				
Water, Untreated	253				3.0 - 15				
Imazamethabenz acid (H)									
Water, Finished	232	46	19.8	1.0 - 5.0	0.60 - 3.0				
Water, Untreated	253	37	14.6	1.0 - 5.0	0.60 - 3.0				
Imazamethabenz methyl (H)									
Water, Finished	232	3	1.3	0.52 ^	0.31 - 1.5				
Water, Untreated	253	3	1.2	0.52 - 2.2	0.31 - 1.5				
Imazamox (H)									
Water, Finished	232	1	0.4	2.8 ^	1.7 - 4.0				
Water, Untreated	253	1	0.4	2.8 ^	1.7 - 4.0				
Imazapic (H)									
Water, Finished	232	11	4.7	1.5 ^	0.90 - 3.0				3,500,000
Water, Untreated	253	18	7.1	1.5 - 5.4	0.90 - 3.0				
Imazapyr (H)									
Water, Finished	232	135	58.2	2.0 - 43	1.0 - 2.5				17,500,000
Water, Untreated	253	122	48.2	2.0 - 89	1.0 - 2.5				
Imazaquin (H)									
Water, Finished	232				1.1 - 5.0				1,750,000
Water, Untreated	253				1.1 - 5.0				
Imazethapyr (H)									
Water, Finished	232	29	12.5	2.0 - 7.9	1.0 - 2.0				17,500,000
Water, Untreated	253	35	13.8	2.0 - 7.9	1.0 - 2.0				
Imidacloprid (I)									
Water, Finished	232	12	5.2	6.0 ^	3.6 - 6.0				399,000
Water, Untreated	253	17	6.7	6.0 - 14	3.6 - 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]
Isoxaflutole (H)									
Water, Finished	54				12 ^				140,000
Water, Untreated	54				12 ^				
Isoxaflutole degradate (HM)									
Water, Finished	54				15 ^				
Water, Untreated	54	1	1.9	51 ^	15 ^				
Lindane - BHC gamma (I)									
Water, Finished	178				20 ^	200			
Water, Untreated	199	3	1.5	33 - 100	20 ^			950	
Linuron (H)									
Water, Finished	232	4	1.7	2.7 - 27	1.6 - 6.0				54,000
Water, Untreated	253	1	0.4	5.7 ^	1.6 - 6.0				
Malathion (I)									
Water, Finished	232				10 - 30		100,000		
Water, Untreated	253				10 - 30				
Malathion oxygen analog (IM)									
Water, Finished	232	1	0.4	1.8 ^	0.37 - 600				
Water, Untreated	253	1	0.4	1.2 ^	0.37 - 600				
MCPA (H)									
Water, Finished	232	96	41.4	0.65 - 30	0.39 - 1.5		30,000		
Water, Untreated	253	38	15	0.65 - 89	0.39 - 1.5				
MCPB (H)									
Water, Finished	232				6.0 - 12				
Water, Untreated	253				6.0 - 12				
Mecoprop - MCPP (H)									
Water, Finished	232	128	55.2	0.52 - 190	0.31 - 15				280,000
Water, Untreated	253	109	43.1	0.52 - 160	0.31 - 15				
Mesotrione (H)									
Water, Finished	54				15 ^				49,000
Water, Untreated	54				15 ^				
Metalaxyl/Mefenoxam * (F)									
Water, Finished	232	105	45.3	2.0 - 25	1.0 - 2.5				
Water, Untreated	253	120	47.4	2.0 - 130	1.0 - 2.5				
Methidathion (I)									
Water, Finished	54				100 ^				11,000
Water, Untreated	54				100 ^				
Methomyl (I)									
Water, Finished	225				7.3 - 7.5		200,000		
Water, Untreated	245				7.3 - 7.5				
Methoxychlor olefin (IM)									
Water, Finished	178				3.6 ^	40,000	40,000		
Water, Untreated	199				3.6 ^				
Methoxychlor p,p' (IM)									
Water, Finished	178				19 ^	40,000	40,000		
Water, Untreated	199				19 ^				
Methoxychlor Total (I)									
Water, Finished	54				50 ^	40,000	40,000		
Water, Untreated	54				50 ^				
Metolachlor (H)									
Water, Finished	232	165	71.1	2.5 - 210	1.5 - 15		700,000		
Water, Untreated	253	187	73.9	2.5 - 1500	1.5 - 15				
Metolachlor ethanesulfonic acid (HM)									
Water, Finished	232	205	88.4	0.60 - 2500	0.36 - 3.0				
Water, Untreated	253	226	89.3	1.4 - 2200	0.36 - 3.0				
Metolachlor oxanilic acid (HM)									
Water, Finished	232	190	81.9	3.0 - 1100	1.8 - 3.0				
Water, Untreated	253	209	82.6	3.0 - 1500	1.8 - 3.0				

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]
Metribuzin (H)									
Water, Finished	54				30 ^		70,000		
Water, Untreated	54				30 ^				
Metribuzin DA (HM)									
Water, Finished	54				6.0 ^				
Water, Untreated	54	1	1.9	37.8 ^	6.0 ^				
Metsulfuron methyl (H)									
Water, Finished	232	1	0.4	2.5 ^	1.5 - 7.0				
Water, Untreated	253	38	15	2.5 - 9.7	1.5 - 7.0				
Myclobutanil (F)									
Water, Finished	232	2	0.9	2.7 - 12	1.6 - 50				175,000
Water, Untreated	253	4	1.6	2.7 - 16	1.6 - 50				
1-Naphthol (IM)									
Water, Finished	54				30 ^				
Water, Untreated	54				30 ^				
Neburon (H)									
Water, Finished	232				3.0 - 4.8				
Water, Untreated	253				3.0 - 4.8				
Nicosulfuron (H)									
Water, Finished	232				1.7 - 8.0				8,750,000
Water, Untreated	253				1.7 - 8.0				
Norflurazon (H)									
Water, Finished	232				4.8 - 6.0				105,000
Water, Untreated	253				4.8 - 6.0				
Norflurazon desmethyl (HM)									
Water, Finished	232				1.8 - 15				
Water, Untreated	253	1	0.4	3.0 ^	1.8 - 15				
Omethoate (IM)									
Water, Finished	232				0.30 - 7.5				
Water, Untreated	253				0.30 - 7.5				
Oxadiazon (H)									
Water, Finished	54				30 ^				
Water, Untreated	54				30 ^				
Oxadixyl (F)									
Water, Finished	232				1.8 - 15				
Water, Untreated	253				1.8 - 15				
Oxamyl (I)									
Water, Finished	225				3.0 - 7.5	200,000			
Water, Untreated	245				3.0 - 7.5				
Oxydemeton methyl (I)									
Water, Finished	232				0.97 - 6.0				700
Water, Untreated	253				0.97 - 6.0				
Oxydemeton methyl sulfone (IM)									
Water, Finished	178				2.0 ^				
Water, Untreated	199				2.0 ^				
Parathion (I)									
Water, Finished	178				15 ^				200
Water, Untreated	199				15 ^			65	
Parathion methyl (I)									
Water, Finished	232				30 - 53				
Water, Untreated	253				30 - 53			65	
Parathion methyl oxygen analog (IM)									
Water, Finished	232				3.6 - 7.5				
Water, Untreated	253				3.6 - 7.5				
Pendimethalin (H)									
Water, Finished	54				30 ^				210,000
Water, Untreated	54				30 ^				

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]
Permethrin cis (IM)									
Water, Finished	232				9.0 - 50				1,750,000
Water, Untreated	253				9.0 - 50				
Permethrin trans (IM)									
Water, Finished	232				7.5 - 50				1,750,000
Water, Untreated	253				7.5 - 50				
Phenothrin (I)									
Water, Finished	178				27 ^				
Water, Untreated	199				27 ^				
Phorate (I)									
Water, Finished	232				12 - 30				4,000
Water, Untreated	253				12 - 30				
Phorate oxygen analog (IM)									
Water, Finished	54				50 ^				
Water, Untreated	54				50 ^				
Phorate sulfone (IM)									
Water, Finished	232				1.8 - 100				
Water, Untreated	253				1.8 - 100				
Phorate sulfoxide (IM)									
Water, Finished	232				0.44 - 100				
Water, Untreated	253				0.44 - 100				
Phosmet (I)									
Water, Finished	54				100 ^				42,000
Water, Untreated	54				100 ^				
Picloram (H)									
Water, Finished	232	1	0.4	17 ^	10 - 12.5	500,000			
Water, Untreated	253				10 - 12.5				
Prallethrin (I)									
Water, Finished	178				25 ^				350,000
Water, Untreated	199				25 ^				
Prometon (H)									
Water, Finished	232	176	75.9	0.28 - 82	0.17 - 30		100,000		
Water, Untreated	253	197	77.9	0.28 - 32	0.17 - 30				
Prometryn (H)									
Water, Finished	232				0.17 - 1.0				280,000
Water, Untreated	253	90	35.6	0.28 - 97	0.17 - 1.0				
Propachlor (H)									
Water, Finished	232				0.64 - 30				
Water, Untreated	253				0.64 - 30				
Propachlor ESA (HM)									
Water, Finished	54				9.0 ^				
Water, Untreated	54				9.0 ^				
Propachlor oxanilic acid (HM)									
Water, Finished	232				1.4 - 3.0				
Water, Untreated	253				1.4 - 3.0				
Propanil (H)									
Water, Finished	232				2.2 - 30				63,000
Water, Untreated	253				2.2 - 30				
Propazine (H)									
Water, Finished	232	98	42.2	0.70 - 8.4	0.42 - 30		100,000		
Water, Untreated	253	116	45.8	0.70 - 71	0.42 - 30				
Propiconazole (F)									
Water, Finished	232	22	9.5	5.7 - 29	3.4 - 50				700,000
Water, Untreated	253	10	4	5.7 - 24	3.4 - 50				
Propoxur (I)									
Water, Finished	54				6.0 ^				
Water, Untreated	54				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]
Prosulfuron (H)									
Water, Finished	178	3	1.7	2.5 ^	1.5 ^				371,000
Water, Untreated	199	4	2	2.5 ^	1.5 ^				
Pyrasulfotole (H)									
Water, Finished	178				2.8 ^				70,000
Water, Untreated	199	8	4	4.7 ^	2.8 ^				
Pyroxsulam (H)									
Water, Finished	178				3.9 ^				7,000,000
Water, Untreated	199				3.9 ^				
Resmethrin (I)									
Water, Finished	178				7.8 ^				245,000
Water, Untreated	199				7.8 ^				
Saflufenacil (H)									
Water, Finished	54				4.5 ^				322,000
Water, Untreated	54				4.5 ^				
Siduron (H)									
Water, Finished	232	3	1.3	2.0 - 11	1.0 - 2.0				1,050,000
Water, Untreated	253	3	1.2	2.0 - 16	1.0 - 2.0				
Simazine (H)									
Water, Finished	232	121	52.2	1.2 - 250	0.71 - 30	4,000			
Water, Untreated	253	133	52.6	1.2 - 310	0.71 - 30				
Sulfometuron methyl (H)									
Water, Finished	232	46	19.8	1.3 - 12	0.76 - 2.5				1,925,000
Water, Untreated	253	67	26.5	1.3 - 41	0.76 - 2.5				
Tebuconazole (F)									
Water, Finished	232	51	22	3.5 - 27	2.1 - 50				203,000
Water, Untreated	253	32	12.6	3.5 - 69	2.1 - 50				
Tebupirimfos (I)									
Water, Finished	54				30 ^				100
Water, Untreated	54				30 ^				
Tebuthiuron (H)									
Water, Finished	232	120	51.7	0.35 - 4.6	0.21 - 30		500,000		
Water, Untreated	253	109	43.1	0.35 - 5.6	0.21 - 30				
Tefluthrin (I)									
Water, Finished	178				2.1 ^				
Water, Untreated	199				2.1 ^				
Tembotrione (H)									
Water, Finished	232				5.5 - 15				3,000
Water, Untreated	253	2	0.8	9.2 - 18	5.5 - 15				
Terbacil (H)									
Water, Finished	178				0.71 ^		90,000		
Water, Untreated	199	2	1	1.2 ^	0.71 ^				
Terbufos (I)									
Water, Finished	232				6.3 - 30		400		
Water, Untreated	253				6.3 - 30				
Terbufos sulfone (IM)									
Water, Finished	178	1	0.6	2.7 ^	1.6 ^				
Water, Untreated	199	1	0.5	2.7 ^	1.6 ^				
Tetrachlorvinphos (I)									
Water, Finished	178				7.5 ^				296,000
Water, Untreated	199				7.5 ^				
Tetraconazole (F)									
Water, Finished	232	32	13.8	2.0 - 7.3	1.2 - 30				51,000
Water, Untreated	253	13	5.1	2.0 ^	1.2 - 30				
Tetradifon (I)									
Water, Finished	178				7.2 ^				
Water, Untreated	199				7.2 ^				

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]
Tetramethrin (I)									
Water, Finished	178				28 ^				
Water, Untreated	199				28 ^				
Thiamethoxam (I)									
Water, Finished	232	1	0.4	10.2 ^	6.1 - 7.5				84,000
Water, Untreated	253	6	2.4	10.2 ^	6.1 - 7.5				
Thifensulfuron (H)									
Water, Finished	178				3.4 ^				
Water, Untreated	199	1	0.5	11 ^	3.4 ^				
Thifensulfuron methyl (H)									
Water, Finished	54				5.0 ^				301,000
Water, Untreated	54	3	5.6	8.0 ^	5.0 ^				
Thiobencarb (H)									
Water, Finished	232				2.5 - 3.9				
Water, Untreated	253				2.5 - 3.9				
Tri Allate (H)									
Water, Finished	232				12 - 30				175,000
Water, Untreated	253				12 - 30				
Triadimefon (F)									
Water, Finished	178				1.3 ^				238,000
Water, Untreated	199				1.3 ^				
Triadimenol (F)									
Water, Finished	232				6.0 - 11				24,000
Water, Untreated	253				6.0 - 11				
Triasulfuron (H)									
Water, Finished	232				1.7 - 7.0				70,000
Water, Untreated	253				1.7 - 7.0				
Triclopyr (H)									
Water, Finished	232	91	39.2	2.7 - 130	1.6 - 15				350,000
Water, Untreated	253	94	37.2	2.7 - 270	1.6 - 15				
Trifluralin (H)									
Water, Finished	54				30 ^		10,000		
Water, Untreated	54				30 ^				
Triticonazole (F)									
Water, Finished	232	1	0.4	7.8 ^	4.7 - 500				1,190,000
Water, Untreated	253	2	0.8	7.8 - 140	4.7 - 500				

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, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

T = Nematicide

Appendix G

Distribution of Residues for Environmental Contaminants

Appendix G shows residue detections across all commodities for 18 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 2012 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 G. 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)						
Apple Juice	396	0			0.010 ^	0.03 AL
Baby Food - Applesauce	396	0			0.001 ^	0.03 AL
Baby Food - Carrots	792	0			0.035 ^	0.1 AL
Baby Food - Peaches	777	0			0.003 - 0.040	0.02 AL
Baby Food - Peas	395	0			0.020 ^	0.03 AL
Bananas	559	0			0.040 ^	0.02 AL
Butter	792	0			0.001 - 0.003	0.3 AL
Cantaloupe	372	0			0.010 ^	0.1 AL
Cauliflower	737	0			0.003 ^	0.03 AL
Cherry Tomatoes	744	0			0.004 ^	0.05 AL
Mushrooms	744	0			0.003 - 0.010	NT
Onion	558	0			0.003 - 0.050	0.1 AL
Orange Juice	330	0			0.003 - 0.010	0.02 AL
Papaya	344	0			0.050 ^	NT
Plums	697	0			0.003 ^	0.03 AL
Snap Peas	743	0			0.001 - 0.003	0.03 AL
Summer Squash	186	0			0.003 - 0.020	0.1 AL
Sweet Bell Peppers	186	0			0.006 ^	0.05 AL
Tangerines	691	0			0.010 ^	0.02 AL
Water, Finished	178	0			9.6 ^ (ppt)	
Water, Groundwater	59	0			9.6 ^ (ppt)	
Water, Untreated	199	0			9.6 ^ (ppt)	
Winter Squash	742	0			0.003 ^	0.1 AL
TOTAL	**11,617**	**0**				
BHC alpha (isomer of BHC alpha)						
Apple Juice	396	0			0.012 ^	0.05 AL
Avocado	372	0			0.003 ^	0.05 AL
Baby Food - Applesauce	396	0			0.001 ^	0.05 AL
Baby Food - Carrots	792	0			0.015 - 0.045	0.3 AL
Baby Food - Peaches	777	0			0.002 - 0.007	0.05 AL
Baby Food - Peas	395	0			0.20 ^	0.05 AL
Bananas	528	0			0.007 ^	NT
Butter	792	0			0.001 ^	0.3 AL
Cantaloupe	372	0			0.010 ^	0.05 AL
Cauliflower	737	0			0.001 - 0.003	0.05 AL
Cherry Tomatoes	744	0			0.004 ^	0.05 AL
Mushrooms	744	0			0.012 ^	NT
Onion	558	0			0.002 - 0.040	0.05 AL
Orange Juice	330	0			0.012 ^	0.05 AL
Papaya	366	0			0.040 ^	NT
Plums	697	0			0.002 ^	0.05 AL
Snap Peas	743	0			0.001 - 0.002	0.05 AL
Summer Squash	186	0			0.002 - 0.20	0.05 AL
Sweet Bell Peppers	186	0			0.005 ^	0.05 AL
Tangerines	691	0			0.010 ^	0.05 AL
Winter Squash	742	0			0.002 ^	0.05 AL
TOTAL	**11,544**	**0**				
BHC beta (isomer of BHC alpha)						
Apple Juice	396	0			0.014 ^	0.05 AL
Avocado	372	0			0.024 ^	0.05 AL
Baby Food - Applesauce	396	0			0.001 ^	0.05 AL
Baby Food - Carrots	774	0			0.015 - 0.050	0.3 AL
Baby Food - Peas	395	0			0.30 ^	0.05 AL
Cantaloupe	207	0			0.010 ^	0.05 AL
Cherry Tomatoes	744	0			0.004 ^	0.05 AL
Mushrooms	744	0			0.014 ^	NT
Onion	279	0			0.10 ^	0.05 AL
Orange Juice	330	0			0.014 ^	0.05 AL
Papaya	366	0			0.060 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	92	0			0.20 ^	0.05 AL
Tangerines	488	0			0.010 ^	0.05 AL
TOTAL	**5,583**	**0**				
Chlordane cis (insecticide) (isomer of Chlordane)						
Apple Juice	396	0			0.010 ^	0.1 AL
Baby Food - Applesauce	396	0			0.001 ^	0.1 AL
Baby Food - Carrots	792	0			0.015 ^	0.1 AL
Baby Food - Peaches	777	0			0.002 - 0.005	0.1 AL
Baby Food - Peas	395	0			0.005 ^	0.1 AL
Bananas	559	0			0.005 ^	0.1 AL
Butter	792	0			0.001 - 0.003	NT
Cantaloupe	372	0			0.010 ^	0.1 AL
Cauliflower	737	0			0.003 ^	0.1 AL
Cherry Tomatoes	744	0			0.003 ^	0.1 AL
Mushrooms	744	0			0.004 - 0.010	NT
Onion	558	0			0.002 - 0.010	0.1 AL
Orange Juice	330	0			0.004 - 0.010	0.1 AL
Papaya	344	0			0.030 ^	0.1 AL
Plums	697	0			0.002 ^	0.1 AL
Snap Peas	743	0			0.001 - 0.002	0.1 AL
Summer Squash	186	2	1.1	0.003 - 0.010	0.002 - 0.050	0.1 AL
Sweet Bell Peppers	186	0			0.005 ^	0.1 AL
Tangerines	709	0			0.010 ^	0.1 AL
Water, Finished	178	0			4.2 ^ (ppt)	
Water, Groundwater	50	0			4.2 ^ (ppt)	
Water, Untreated	199	0			4.2 ^ (ppt)	
Winter Squash	742	25	3.4	0.003 - 0.017	0.002 ^	0.1 AL
TOTAL	**11,626**	**27**				
Chlordane trans (isomer of Chlordane)						
Apple Juice	396	0			0.010 ^	0.1 AL
Baby Food - Applesauce	396	0			0.001 ^	0.1 AL
Baby Food - Carrots	792	0			0.015 ^	0.1 AL
Baby Food - Peaches	777	0			0.002 - 0.005	0.1 AL
Baby Food - Peas	395	0			0.025 ^	0.1 AL
Bananas	559	0			0.005 ^	0.1 AL
Butter	792	0			0.001 - 0.003	NT
Cantaloupe	372	0			0.010 ^	0.1 AL
Cauliflower	737	0			0.003 ^	0.1 AL
Cherry Tomatoes	744	0			0.004 ^	0.1 AL
Mushrooms	744	0			0.004 - 0.010	NT
Onion	558	0			0.002 - 0.010	0.1 AL
Orange Juice	330	0			0.004 - 0.010	0.1 AL
Papaya	366	0			0.030 ^	0.1 AL
Plums	697	0			0.002 ^	0.1 AL
Snap Peas	743	0			0.001 - 0.002	0.1 AL
Summer Squash	186	1	0.5	0.003 ^	0.002 - 0.025	0.1 AL
Sweet Bell Peppers	186	0			0.005 ^	0.1 AL
Tangerines	709	0			0.010 ^	0.1 AL
Water, Finished	178	0			4.8 ^ (ppt)	
Water, Groundwater	50	0			4.8 ^ (ppt)	
Water, Untreated	199	0			4.8 ^ (ppt)	
Winter Squash	742	12	1.6	0.003 ^	0.002 ^	0.1 AL
TOTAL	**11,648**	**13**				
DDD o,p' (metabolite of DDT)						
Butter	792	0			0.001 ^	1.25 AL
Cauliflower	737	0			0.001 ^	0.5 AL
Snap Peas	371	0			0.001 ^	0.2 AL
TOTAL	**1,900**	**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
DDD p,p' (metabolite of DDT)						
Apple Juice	396	0			0.005 ^	0.1 AL
Avocado	372	0			0.003 ^	0.2 AL
Baby Food - Applesauce	396	0			0.001 ^	0.1 AL
Baby Food - Carrots	792	0			0.004 ^	3 AL
Baby Food - Peaches	777	0			0.002 - 0.005	0.2 AL
Baby Food - Peas	395	0			0.005 ^	0.2 AL
Bananas	559	0			0.005 - 0.010	NT
Butter	775	0			0.001 ^	1.25 AL
Cantaloupe	372	0			0.010 ^	0.1 AL
Cauliflower	737	0			0.001 ^	0.5 AL
Cherry Tomatoes	744	0			0.003 ^	0.05 AL
Mushrooms	744	0			0.005 ^	0.5 AL
Onion	558	0			0.002 - 0.015	0.2 AL
Orange Juice	330	0			0.005 ^	0.1 AL
Papaya	366	0			0.020 ^	0.2 AL
Plums	697	0			0.002 ^	0.2 AL
Snap Peas	743	0			0.001 - 0.002	0.2 AL
Summer Squash	186	0			0.002 - 0.050	0.1 AL
Sweet Bell Peppers	186	0			0.001 ^	0.1 AL
Tangerines	709	0			0.010 ^	0.1 AL
Winter Squash	742	0			0.002 ^	0.1 AL
TOTAL	**11,576**	**0**				
DDE p,p' (metabolite of DDT)						
Apple Juice	396				0.010 ^	0.1 AL
Avocado	372				0.006 ^	0.2 AL
Baby Food - Applesauce	396				0.001 ^	0.1 AL
Baby Food - Carrots	792				0.005 - 0.010	3 AL
Baby Food - Peaches	777				0.002 - 0.005	0.2 AL
Baby Food - Peas	395				0.005 ^	0.2 AL
Bananas	559				0.005 ^	NT
Butter	792	622	78.5	0.002 - 0.016	0.001 ^	1.25 AL
Cantaloupe	372				0.010 ^	0.1 AL
Cauliflower	737				0.003 ^	0.5 AL
Cherry Tomatoes	744				0.004 ^	0.05 AL
Mushrooms	744				0.010 ^	0.5 AL
Onion	558				0.002 - 0.005	0.2 AL
Orange Juice	330				0.010 ^	0.1 AL
Papaya	366				0.020 ^	0.2 AL
Plums	697				0.002 ^	0.2 AL
Snap Peas	743				0.001 - 0.002	0.2 AL
Summer Squash	186	7	3.8	0.003 - 0.006	0.002 - 0.005	0.1 AL
Sweet Bell Peppers	186				0.001 ^	0.1 AL
Tangerines	709				0.010 ^	0.1 AL
Winter Squash	742	17	2.3	0.003 - 0.007	0.002 ^	0.1 AL
TOTAL	**11,593**	**646**				
DDT o,p' (insecticide)						
Butter	760	1	0.1	0.002 ^	0.001 - 0.003	1.25 AL
Cauliflower	737	0			0.001 - 0.003	0.5 AL
Snap Peas	371	0			0.001 ^	0.2 AL
TOTAL	**1,868**	**1**				
DDT p,p' (insecticide)						
Avocado	372	0			0.003 ^	0.2 AL
Baby Food - Applesauce	396	0			0.001 ^	0.1 AL
Baby Food - Carrots	792	0			0.010 - 0.033	3 AL
Baby Food - Peaches	777	0			0.003 - 0.076	0.2 AL
Bananas	559	0			0.076 ^	NT
Butter	248	0			0.001 - 0.012	1.25 AL
Cauliflower	723	0			0.003 - 0.006	0.5 AL
Cherry Tomatoes	744	0			0.009 ^	0.05 AL
Onion	279	0			0.003 ^	0.2 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
Plums	697	0			0.003 - 0.005	0.2 AL
Snap Peas	743	0			0.001 - 0.005	0.2 AL
Summer Squash	94	0			0.003 ^	0.1 AL
Tangerines	690	0			0.010 ^	0.1 AL
Winter Squash	742	2	0.3	0.005 ^	0.003 ^	0.1 AL
TOTAL	**7,856**	**2**				
Dieldrin (insecticide) (also a metabolite of Aldrin)						
Apple Juice	396	0			0.010 ^	0.03 AL
Baby Food - Applesauce	396	0			0.005 ^	0.03 AL
Baby Food - Carrots	792	0			0.040 ^	0.1 AL
Baby Food - Peaches	777	0			0.006 - 0.020	0.02 AL
Baby Food - Peas	395	0			0.050 ^	0.05 AL
Bananas	559	0			0.020 ^	0.02 AL
Butter	792	1	0.1	0.002 ^	0.001 ^	0.3 AL
Cantaloupe	372	3	0.8	0.013 - 0.032	0.010 ^	0.1 AL
Cauliflower	737	0			0.002 - 0.008	0.03 AL
Cherry Tomatoes	744	0			0.004 ^	0.05 AL
Mushrooms	744	0			0.002 - 0.020	NT
Onion	558	0			0.006 - 0.020	0.1 AL
Orange Juice	330	0			0.002 - 0.010	0.02 AL
Papaya	366	0			0.050 ^	NT
Plums	697	0			0.006 ^	0.03 AL
Snap Peas	743	0			0.002 - 0.006	0.03 AL
Summer Squash	186	1	0.5	0.010 ^	0.006 - 0.050	0.1 AL
Sweet Bell Peppers	186	0			0.004 ^	0.05 AL
Tangerines	709	0			0.010 ^	0.02 AL
Winter Squash	742	47	6.3	0.010 - 0.11	0.006 ^	0.1 AL
TOTAL	**11,221**	**52**				
Endrin (insecticide)						
Apple Juice	396	0			0.010 ^	0.03 AL
Baby Food - Applesauce	396	0			0.001 ^	0.03 AL
Baby Food - Carrots	792	0			0.040 - 0.13	0.1 AL
Baby Food - Peaches	777	0			0.003 - 0.031	0.02 AL
Baby Food - Peas	395	0			0.12 ^	0.03 AL
Bananas	559	0			0.031 ^	0.02 AL
Butter	725	0			0.008 - 0.050	0.3 AL
Cantaloupe	372	0			0.010 ^	0.1 AL
Cauliflower	737	0			0.025 - 0.050	0.03 AL
Cherry Tomatoes	744	0			0.004 ^	0.05 AL
Mushrooms	744	0			0.004 - 0.010	NT
Onion	558	0			0.003 - 0.050	0.1 AL
Orange Juice	330	0			0.004 - 0.010	0.02 AL
Papaya	366	0			0.040 ^	NT
Plums	697	0			0.003 ^	0.03 AL
Snap Peas (X-1)	742	6	0.8	0.012 - 0.060	0.003 - 0.025	0.03 AL
Summer Squash	186	1	0.5	0.015 ^	0.003 - 0.062	0.1 AL
Sweet Bell Peppers	186	0			0.006 ^	0.05 AL
Tangerines	709	0			0.010 ^	0.02 AL
Water, Finished	178	0			22 ^ (ppt)	
Water, Groundwater	50	0			22 ^ (ppt)	
Water, Untreated	199	0			22 ^ (ppt)	
Winter Squash	742	6	0.8	0.005 ^	0.003 ^	0.1 AL
TOTAL	**11,580**	**13**				
Heptachlor (insecticide)						
Apple Juice	396	0			0.002 ^	0.01 AL
Baby Food - Applesauce	396	0			0.001 ^	0.01 AL
Baby Food - Carrots	792	0			0.022 - 0.073	0.01 AL
Baby Food - Peaches	777	0			0.003 - 0.049	0.05 AL
Baby Food - Peas	395	0			0.015 ^	0.01 AL
Bananas	559	0			0.049 ^	NT
Butter	681	0			0.001 ^	0.05 AL
Cantaloupe	372	0			0.010 ^	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
Cauliflower	647	0			0.003 ^	0.01 AL
Cherry Tomatoes	744	0			0.004 ^	0.01 AL
Mushrooms	744	0			0.002 ^	NT
Onion	558	0			0.003 - 0.025	0.01 AL
Orange Juice	330	0			0.002 ^	0.05 AL
Papaya	366	0			0.040 ^	NT
Plums	697	0			0.003 ^	0.05 AL
Snap Peas	712	0			0.001 - 0.003	0.01 AL
Summer Squash	186	0			0.003 - 0.015	0.05 AL
Sweet Bell Peppers	186	0			0.010 ^	0.01 AL
Tangerines	672	0			0.010 ^	0.05 AL
Water, Finished	232	0			9.0 - 50 (ppt)	
Water, Groundwater	155	0			9.0 - 50 (ppt)	
Water, Untreated	253	0			9.0 - 50 (ppt)	
Winter Squash	742	0			0.003 ^	0.05 AL
TOTAL	**11,592**	**0**				
Heptachlor epoxide (metabolite of Heptachlor)						
Apple Juice	396	0			0.005 ^	0.01 AL
Baby Food - Applesauce	396	0			0.001 ^	0.01 AL
Baby Food - Peaches	777	0			0.003 - 0.041	0.05 AL
Baby Food - Peas	395	0			0.010 ^	0.01 AL
Bananas	559	0			0.041 ^	NT
Butter	759	0			0.004 - 0.012	0.05 AL
Cantaloupe	372	0			0.010 ^	0.05 AL
Cauliflower	737	0			0.012 - 0.024	0.01 AL
Mushrooms	744	0			0.001 - 0.005	NT
Onion	558	0			0.003 - 0.025	0.01 AL
Orange Juice	330	0			0.001 - 0.005	0.05 AL
Papaya	344	0			0.040 ^	NT
Plums	697	0			0.003 ^	0.05 AL
Snap Peas	743	0			0.003 - 0.004	0.01 AL
Summer Squash	186	0			0.003 - 0.010	0.05 AL
Sweet Bell Peppers	186	0			0.024 ^	0.01 AL
Tangerines	709	0			0.010 ^	0.05 AL
Winter Squash	742	9	1.2	0.005 - 0.011	0.003 ^	0.05 AL
TOTAL	**9,630**	**9**				
Heptachlor epoxide cis (metabolite of Heptachlor)						
Baby Food - Carrots	792	0			0.050 ^	0.01 AL
Cherry Tomatoes	744	0			0.004 ^	0.01 AL
Water, Finished	232	0			9.0 - 100 (ppt)	
Water, Groundwater	144	0			9.0 - 100 (ppt)	
Water, Untreated	253	0			9.0 - 100 (ppt)	
TOTAL	**2,165**	**0**				
Heptachlor epoxide trans (metabolite of Heptachlor)						
Baby Food - Carrots	792	0			0.050 ^	0.01 AL
Water, Finished	232	0			9.0 - 100 (ppt)	
Water, Groundwater	144	0			9.0 - 100 (ppt)	
Water, Untreated	253	0			9.0 - 100 (ppt)	
TOTAL	**1,421**	**0**				
Hexachlorobenzene - HCB (metabolite and impurity of Quintozene)						
Apple Juice	396	0			0.003 ^	NT
Baby Food - Applesauce	396	0			0.001 ^	NT
Baby Food - Peaches	406	0			0.002 ^	NT
Cantaloupe	372	0			0.010 ^	NT
Cauliflower	356	0			0.003 ^	0.1
Cherry Tomatoes	744	0			0.004 ^	0.1
Mushrooms	744	0			0.003 ^	NT
Onion	279	0			0.002 ^	NT
Orange Juice	330	0			0.003 ^	NT
Plums	697	0			0.002 ^	NT
Snap Peas	743	0			0.001 - 0.002	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	186	0			0.002 - 0.10	NT
Tangerines	709	0			0.010 ^	NT
Winter Squash	742	0			0.002 ^	NT
TOTAL	**7,100**	**0**				
Oxychlordane (metabolite of Chlordane)						
Apple Juice	396	0			0.010 ^	0.1 AL
Baby Food - Carrots	792	0			0.015 - 0.045	0.1 AL
Butter	775	0			0.002 - 0.008	NT
Cauliflower	737	0			0.008 ^	0.1 AL
Cherry Tomatoes	743	0			0.009 ^	0.1 AL
Mushrooms	744	0			0.004 - 0.010	NT
Orange Juice	330	0			0.004 - 0.010	0.1 AL
Snap Peas	371	0			0.002 ^	0.1 AL
Water, Finished	178	0			8.4 ^ (ppt)	
Water, Groundwater	50	0			8.4 ^ (ppt)	
Water, Untreated	199	0			8.4 ^ (ppt)	
TOTAL	**5,315**	**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).

(X) = Residue was found which exceeds EPA tolerance or FDA action level. Following "X" are the number of occurrences. Refer to pages 1 and 2 in Appendix L to see the sample origin (domestic, imported, or unknown) for each occurrence.

Appendix H

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

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

As shown in Appendix H, fruit and vegetable and butter samples originated from 39 States and 25 foreign countries. There were 250 samples from mixed national origins (multiple countries). There were 352 domestic samples from unknown states. There were an additional 63 samples from unknown origins. Overall, for all samples excluding wheat, groundwater and drinking water, 60.7 percent were from U.S. sources, 36.6 percent were imports, 2.2 percent were of mixed national origin, and 0.5 percent were of unknown origin.

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

Part 1. Domestic Samples

															Processed F&V						Dairy	# of	% of
	AV	BN	CF	CN	CT	MU	ON	PP	PU	SN	SS	TA	WS	YA	AJ	IA	IC	IE	IH	OJ	BU	Samples	Total
Alabama					3																	3	<0.1
Arizona			1	13	4	1	1	1			1	3	9								12	46	0.4
Arkansas										14					3	1					34	52	0.4
California	85		670	36	37	193	104	2	385	173	21	228	142	22	38	13	14	6	6	7	118	2,300	19.8
Colorado						9	25				1		7				1				3	46	0.4
Connecticut					1												2				1	4	<0.1
Florida	8		12	10	154	10	5	46		3	23	158	14		23					175	26	667	5.8
Georgia				2	1		18	3			15		11		2					16		68	0.6
Hawaii														62								62	0.5
Idaho							31		3													34	0.3
Illinois					6	7	8				1				4	3	5				22	56	0.5
Indiana			1		4						1		1									7	0.1
Kansas																					6	6	0.1
Kentucky					8		1		2				1									12	0.1
Maine			2				1															3	<0.1
Maryland					16	33	6	2			1		6								15	79	0.7
Massachusetts					1		1					1	2		4						1	10	0.1
Michigan					19		21	1		1			71	1	27	294	594	314	114	6	46	1,509	13.0
Minnesota			1		1		3		1	1		2	4		5		1				206	225	1.9
Missouri					1							1			1						32	35	0.3
Nevada							34															34	0.3
New Hampshire																					2	2	<0.1
New Jersey					8		1				1		13		1				1		18	43	0.4
New Mexico							15															15	0.1
New York			2		9	3	12				1		17		17	53	137	57	103	1	28	440	3.8
North Carolina					6			3			3		14		3					1	23	53	0.5
Ohio			2	1	5	18	9		1	7	4		12		5		1			1	46	112	1.0
Oklahoma						13																13	0.1
Oregon					1		38						3								30	72	0.6
Pennsylvania					6	191	2			2			1		3		1				11	217	1.9
South Carolina					14						1		1									16	0.1
Tennessee					1						1											2	<0.1
Texas			16	8	23	58	55	5	1	2	6	1	3	3	17					2	18	218	1.9
Utah							3															3	<0.1
Vermont																					14	14	0.1
Virginia							1								6							7	0.1
Washington			1		1	8	71		4	4	4		9		22						14	138	1.2
West Virginia							3															3	<0.1
Wisconsin					11		2				1				1						41	56	0.5
Unknown State	2		16	1	18	99	28	3	17	7	16	15	38	1	9	15	24	14	7	8	14	352	3.0
No. of Domestic	95	0	724	71	359	643	499	66	414	214	102	409	379	89	191	379	780	391	231	217	781	7,034	
% of Total	26	0	98	19	48	86	89	35	59	29	55	58	51	24	48	99	98	99	30	66	99		60.7

Part 2. Imported Samples

															Processed F&V						Dairy	# of	% of
	AV	BN	CF	CN	CT	MU	ON	PP	PU	SN	SS	TA	WS	YA	AJ	IA	IC	IE	IH	OJ	BU	Samples	Total
Argentina															22							22	0.2
Australia												19										19	0.2
Belize														39								39	0.3
Brazil														76	4					3		83	0.7
Canada			1		9	93	9	2					5			11						130	1.1
Chile	12			2			2	1	280			156	4			3	2		525			987	8.5
China															41							41	0.4
Colombia		38																	2			40	0.3
Costa Rica		122		23								2										147	1.3
Dominican	4	2			5			2					4	2								19	0.2
Ecuador		101																				101	0.9
El Salvador								2														2	<0.1
Guatemala	1	167		152	1					345			6	31								703	6.1
Honduras		88		108									31									227	2.0
Ireland																					2	2	<0.1
Jamaica														15								15	0.1
Mexico	242	27	10	15	369	6	33	110		102	81	2	308	112								1,417	12.2
Morocco												7										7	0.1
New Zealand									1				1		1							3	<0.1
Nicaragua		3																				3	<0.1
Panama		1											1									2	<0.1
Peru	18	2					12			80		67										179	1.5
South Africa												33			1							34	0.3
Spain								1				13										14	0.1
Turkey															1							1	<0.1
Unknown Country		8												1								9	0.1
No. of Imports	277	559	11	300	384	99	56	118	281	527	81	299	360	276	70	14	2	0	527	3	2	4,246	
% of Total	74	100	1	81	52	13	10	63	40	71	44	42	49	75	18	4	<1	0	68	1	<1		36.6

Part 3. Mixed National Origin Samples

															Processed F&V						Dairy	# of	% of
	AV	BN	CF	CN	CT	MU	ON	PP	PU	SN	SS	TA	WS	YA	AJ	IA	IC	IE	IH	OJ	BU	Samples	Total
Argentina / Austria / Brazil / Chile / China / Germany / Hungary / Italy															1							1	<0.1
Argentina / Austria / Brazil / Chile / Germany / Hungary / Italy / Turkey															1							1	<0.1
Argentina / Brazil / Chile / China / USA															5							5	<0.1
Argentina / Canada / USA															1							1	<0.1
Argentina / Chile / China / New Zealand / Turkey															1							1	<0.1
Argentina / Chile / China / USA															2							2	<0.1
Argentina / Chile / Germany / Poland / Turkey															1							1	<0.1
Argentina / Chile / USA															1							1	<0.1
Argentina / China															30							30	0.3
Argentina / China / USA															16							16	0.1
Argentina / New Zealand															5							5	<0.1
Argentina / Turkey															1							1	<0.1
Argentina / USA															1							1	<0.1
Belize / Brazil / Costa Rica / Mexico																				1		1	<0.1
Belize / Brazil / Costa Rica / Mexico / USA																				1		1	<0.1
Belize / Mexico / USA																				2		2	<0.1
Brazil / Chile / China															1							1	<0.1
Brazil / Costa Rica																				5		5	<0.1
Brazil / Costa Rica / Mexico																				1		1	<0.1
Brazil / Costa Rica / Mexico / USA																				27		27	0.2
Brazil / Costa Rica / USA																				17		17	0.1
Brazil / Mexico																				1		1	<0.1
Brazil / Mexico / USA																				13		13	0.1
Brazil / USA																				34		34	0.3
Canada / USA															25							25	0.2
Chile / China / USA															4							4	<0.1
Chile / USA															6				12			18	0.2
China / South Africa															2							2	<0.1
China / USA															26							26	0.2
Mexico / USA																				5		5	<0.1
New Zealand / Turkey															1							1	<0.1
No. of Mixed National Origin Samples															131				12	107		250	
% of Total															33				2	32			2.2

Part 4. Unknown Origin Samples

															Processed F&V						Dairy	# of	% of
	AV	BN	CF	CN	CT	MU	ON	PP	PU	SN	SS	TA	WS	YA	AJ	IA	IC	IE	IH	OJ	BU	Samples	Total
Unknown Origin			2	1	1	2	3	2	2	2	3	1	3	1	4	3	10	4	7	3	9	63	
% of Total			<1	<1	<1	<1	1	1	<1	<1	2	<1	<1	<1	1	1	1	1	1	1	1		0.5
Sample Totals:	372	559	737	372	744	744	558	186	697	743	186	709	742	366	396	396	792	395	777	330	792	11,593	

NOTE

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

Commodity Legend		
AJ = Apple Juice	IA = Baby Food - Applesauce	PP = Sweet Bell Peppers
AV = Avacado	IC = Baby Food - Carrots	PU = Plums
BN = Bananas	IE = Baby Food - Peas	SN = Snap Peas
BU = Butter	IH = Baby Food - Peaches	SS = Summer Squash
CF = Cauliflower	MU = Mushrooms	TA = Tangerines
CN = Cantaloupe	OJ = Orange Juice	WS = Winter Squash
CT = Cherry Tomatoes	ON = Onions	YA = Papayas

Appendix I

Import vs. Domestic Pesticide Residue Comparisons

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

Appendix I compares residue data reported for samples originating in the United States with those of the same commodity from major exporting countries in 2012. Residue data for domestic cherry tomatoes and winter squash are compared with data for samples originating in Mexico. Residue data for domestic plums and tangerines are compared with data for samples originating in Chile. Residue data for domestic snap peas are compared with data for samples originating in Guatemala. 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 I. Import vs. Domestic Pesticide Residue Comparisons

2012 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	359	66	18.4
	Mexico	369	39	10.6
Bifenthrin	United States	359	129	35.9
	Mexico	369	53	14.4
Boscalid	United States	359	83	23.1
	Mexico	369	75	20.3
Chlorantraniliprole	United States	358	107	29.9
	Mexico	368	27	7.3
Clothianidin	United States	358	56	15.6
	Mexico	369	46	12.5
Difenoconazole	United States	359	57	15.9
	Mexico	369	86	23.3
Flonicamid	United States	359	10	2.8
	Mexico	368	93	25.3
Mandipropamid	United States	359	44	12.3
	Mexico	369	39	10.6
Myclobutanil	United States	359	6	1.7
	Mexico	369	87	23.6
Pyraclostrobin	United States	359	70	19.5
	Mexico	369	99	26.8

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

2012 Distribution of Residues for Winter Squash Samples Originating in Mexico vs. United States
(Only Pesticides with Residue Detections in at least 10 Percent of all Samples)

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Bifenthrin	United States	379	63	16.6
	Mexico	308	38	12.3
Endosulfan sulfate	United States	379	60	15.8
	Mexico	308	86	27.9
Imidacloprid	United States	379	57	15.0
	Mexico	308	62	20.1
Propamocarb hydrochloride	United States	379	61	16.1
	Mexico	308	15	4.9

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

2012 Distribution of Residues for Plum and Tangerine Samples Originating in Chile vs. United States

(Only Pesticides with Residue Detections in at least 10 Percent of all Samples)

Commodity	Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Plums	Fludioxonil	United States	414	338	81.6
		Chile	280	38	13.6
	Iprodione	United States	414	8	1.9
		Chile	280	261	93.2
	Methoxyfenozide	United States	414	80	19.3
		Chile	280	38	13.6
Tangerines	Imazalil	United States	409	347	84.8
		Chile	156	154	98.7
	Pyrimethanil	United States	409	2	0.5
		Chile	156	18	11.5
	Thiabendazole	United States	409	319	78.0
		Chile	156	78	50.0

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

2012 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
Azoxystrobin	United States	214	2	0.9
	Guatemala	345	75	21.7
Carbendazim (MBC)	United States	214	6	2.8
	Guatemala	345	138	40.0
Cyhalothrin, Total	United States	214	14	6.5
(Cyhalothrin-L + R157836 epimer)	Guatemala	345	81	23.5
Difenoconazole	United States	214	4	1.9
	Guatemala	345	86	24.9
Dimethoate	United States	214	37	17.3
	Guatemala	345	134	38.8
Omethoate	United States	214	37	17.3
	Guatemala	345	94	27.2
Tebuconazole	United States	214	2	0.9
	Guatemala	345	77	22.3
Tetrahydrophthalimide (THPI)	United States	214	0	0
	Guatemala	344	81	23.5

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

Appendix J

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

Appendix J shows 130 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 2012 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 J. 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	**Apple Juice (6 pesticides)**							
	Acetamiprid *	I	19.4	396	77	0.003 - 0.040	0.009	1.0
	Carbendazim (MBC) [1]	F	32.8	396	130	0.001 - 0.025	0.006	2.0
	Diphenylamine (DPA)	F	13.9	396	55	0.002 - 0.10	0.011	10.0
	Tetrahydrophthalimide (THPI) [2]	FM	31.6	396	125	0.012 - 0.29	0.063	25.0
	Thiabendazole	F	20.7	396	82	0.003 - 0.32	0.074	5.0
	Thiacloprid	I	10.9	396	43	0.001 - 0.006	0.002	0.30
2	**Baby Food - Applesauce (5 pesticides)**							
	Acetamiprid *	I	17.7	396	70	0.010 - 0.050	0.024	1.0
	Carbendazim (MBC) [1]	F	16.7	396	66	0.010 - 0.065	0.027	2.0
	Cyprodinil	F	6.8	396	27	0.002 ^	0.002	1.7
	Fenpropathrin	I	17.7	396	70	0.002 - 0.005	0.002	5.0
	Pyridaben	I	5.1	396	20	0.002 ^	0.002	0.5
3	**Baby Food - Peaches (10 pesticides)**							
	Acetamiprid *	I	35.9	777	279	0.002 - 0.009	0.003	1.20
	Bifenazate	A	6.4	777	50	0.005 - 0.011	0.005	2.5
	Boscalid	F	11.6	777	90	0.005 - 0.026	0.007	3.5
	Chlorantraniliprole	I	12.1	406	49	0.010 ^	0.01	4.0
	Cyhalothrin, Total [3] *	I	8.6	777	67	0.012 - 0.021	0.014	0.50
	Cyprodinil	F	7.9	777	61	0.005 - 0.017	0.006	2.0
	Esfenvalerate+Fenvalerate Total *	I	21.2	406	86	0.012 - 0.025	0.013	3.0
	Hexythiazox	I	7.5	777	58	0.005 - 0.013	0.006	1.0
	Permethrin							
	Permethrin cis [4]	IM	13.8	777	107	0.010 - 0.019	0.011	1.0
	Permethrin trans [4]	IM	26.9	777	209	0.010 - 0.027	0.012	1.0
	Propiconazole	F	6.8	777	53	0.010 ^	0.01	4.0
4	**Bananas (4 pesticides)**							
	Azoxystrobin	F	24.2	559	135	0.005 - 0.038	0.011	2.0
	Imazalil	F	32.7	559	183	0.005 - 0.078	0.018	3.0
	Myclobutanil	F	12.9	559	72	0.001 - 0.098	0.024	4.0
	Thiabendazole	F	48.1	559	269	0.006 - 0.17	0.041	3.0
5	**Butter (3 pesticides)**							
	Bifenthrin *	I	25.6	792	203	0.003 - 0.012	0.003	1.0
	Cyhalothrin, Total [3] *	I	19.7	792	156	0.005 - 0.056	0.009	10.0
	Permethrin							
	Permethrin cis [4]	IM	25.4	792	201	0.002 - 0.014	0.003	3.0
	Permethrin trans [4]	IM	27.3	792	216	0.002 - 0.017	0.003	3.0
6	**Cantaloupe (4 pesticides)**							
	Imidacloprid	I	5.1	372	19	0.010 - 0.040	0.017	0.5
	Metalaxyl/Mefenoxam [5]	F	12.9	372	48	0.010 - 0.041	0.019	1.0
	Oxamyl oxime [6]	IM	13.4	372	50	0.010 - 0.24	0.067	2.0
	Thiamethoxam *	I	5.6	372	21	0.010 - 0.033	0.016	0.2

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
7 Cauliflower (2 pesticides)							
Deltamethrin [7] *	I	7.8	709	55	0.020 - 0.041	0.02	0.05
Imidacloprid	I	30.1	737	222	0.002 - 0.036	0.004	3.5
8 Cherry Tomatoes (17 pesticides)							
Acetamiprid *	I	5	744	37	0.003 - 0.050	0.012	0.20
Azoxystrobin	F	14.2	744	106	0.003 - 0.15	0.016	0.2
Bifenthrin *	I	24.6	744	183	0.007 - 0.35	0.036	0.15
Boscalid	F	21.5	744	160	0.015 - 0.31	0.046	1.2
Buprofezin	I	7.4	744	55	0.006 - 0.16	0.031	1.3
Chlorantraniliprole	I	18.3	742	136	0.003 - 0.044	0.007	1.4
Clothianidin *	I	13.7	743	102	0.003 - 0.25	0.015	0.25
Difenoconazole	F	19.4	744	144	0.003 - 0.56	0.038	0.60
Endosulfans							
Endosulfan I (isomer) [8]	IM	8.2	744	61	0.006 - 0.12	0.023	1.0
Endosulfan II (isomer) [9]	IM	7.8	744	58	0.016 - 0.19	0.041	1.0
Endosulfan sulfate [10]	IM	9.3	744	69	0.007 - 0.061	0.016	1.0
Fenpyroximate	A	6.9	744	51	0.003 - 0.078	0.016	0.20
Flonicamid	I	13.9	743	103	0.002 - 2.3	0.189	0.40
Imidacloprid	I	22	744	164	0.008 - 0.42	0.031	1.0
Mandipropamid	F	11.2	744	83	0.003 - 0.34	0.028	1.0
Myclobutanil	F	12.5	744	93	0.003 - 0.15	0.017	0.30
Propamocarb hydrochloride [11]	F	7.1	744	53	0.003 - 0.54	0.053	2.0
Pyraclostrobin	F	22.8	744	170	0.002 - 0.20	0.024	1.4
Trifloxystrobin	F	7.7	744	57	0.002 - 0.22	0.023	0.5
9 Mushrooms (2 pesticides)							
Piperonyl butoxide *	I	5.4	744	40	0.006 - 3.6	0.282	10
Thiabendazole	F	51.9	744	386	0.003 - 3.9	0.34	40.0
10 Onions (1 pesticide)							
Boscalid	F	7	558	39	0.005 - 0.062	0.011	3.0
11 Orange Juice (4 pesticides)							
Carbaryl	I	11.2	330	37	0.003 - 0.007	0.004	10
Carbendazim (MBC) [1]	F	7.9	330	26	0.002 - 0.011	0.004	NT
Imazalil	F	7.6	330	25	0.012 - 0.037	0.028	10.0
Thiabendazole	F	8.5	330	28	0.003 - 0.051	0.019	10.0
12 Papaya (1 pesticide)							
Boscalid	F	7.9	366	29	0.020 - 0.075	0.031	1.5
13 Plums (10 pesticides)							
Chlorantraniliprole	I	5.2	697	36	0.008 - 0.026	0.011	4.0
Fenhexamid	F	7.6	697	53	0.040 - 1.2	0.188	1.5
Fludioxonil	F	54.1	697	377	0.010 - 2.6	0.403	5.0
Iprodione	F	38.9	697	271	0.005 - 4.5	0.872	20.0
Methoxyfenozide	I	16.9	697	118	0.005 - 0.090	0.019	0.30
Phosmet	I	5.6	697	39	0.005 - 0.042	0.009	5
Propiconazole	F	6.2	696	43	0.010 - 0.22	0.039	0.60
Pyrimethanil	F	5.9	697	41	0.005 - 0.17	0.021	10
Spirodiclofen	A	8.9	697	62	0.005 - 0.016	0.007	1.0
Tebuconazole	F	7.7	697	54	0.010 - 0.59	0.136	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
14 Snap Peas (13 pesticides)							
Azoxystrobin	F	13.1	743	97	0.002 - 0.41	0.03	3.0
Carbendazim (MBC) [1]	F	23.1	743	172	0.002 - 3.4	0.128	NT
Cyhalothrin, Total [10] *	I	13.2	743	98	0.005 - 0.21	0.019	0.20
Cypermethrin *	I	8.7	743	65	0.038 - 0.46	0.077	0.5
Difenoconazole	F	12.9	743	96	0.002 - 0.14	0.02	NT
Dimethoate							
Dimethoate (parent)	I	23.8	743	177	0.003 - 1.0	0.072	2.0
Omethoate [12]	IM	17.9	743	133	0.005 - 0.32	0.041	2.0
Endosulfan sulfate [10]	IM	6.2	742	46	0.005 - 0.43	0.043	2.0
Imidacloprid	I	5.4	743	40	0.002 - 0.40	0.056	4.0
Malathion	I	7	743	52	0.002 - 0.087	0.01	8
Profenofos	I	6.7	371	25	0.003 - 0.056	0.018	NT
Spinetoram	I	5.8	743	43	0.002 - 0.031	0.009	0.30
Tebuconazole	F	11.2	743	83	0.003 - 0.22	0.024	NT
Tetrahydrophthalimide (THPI) [2]	FM	11.6	742	86	0.006 - 0.38	0.039	0.05
15 Summer Squash (8 pesticides)							
Cyromazine	R	5.4	186	10	0.005 - 0.029	0.013	1.0
Dinotefuran	I	7.5	186	14	0.010 - 0.13	0.052	0.5
Endosulfan sulfate [10]	IM	31.2	186	58	0.005 - 0.13	0.044	1.0
Imidacloprid	I	22.6	186	42	0.010 - 0.069	0.024	0.5
Oxamyl							
Oxamyl (parent)	I	6.5	186	12	0.013 - 0.82	0.204	2.0
Oxamyl oxime [6]	IM	5.4	186	10	0.020 - 0.23	0.1	2.0
Propamocarb hydrochloride [11]	F	8.6	186	16	0.008 - 0.43	0.081	1.5
Pyraclostrobin	F	6.5	186	12	0.003 - 0.038	0.016	0.5
Thiamethoxam *	I	22	186	41	0.003 - 0.14	0.027	0.2
16 Sweet Bell Peppers (18 pesticides)							
Acetamiprid *	I	17.7	186	33	0.003 - 0.20	0.027	0.20
Azoxystrobin	F	12.4	186	23	0.005 - 0.078	0.023	2.0
Bifenthrin *	I	11.8	186	22	0.005 - 0.12	0.026	0.5
Boscalid	F	19.4	186	36	0.021 - 0.21	0.062	1.2
Chlorfenapyr	I	5.4	186	10	0.026 - 0.099	0.06	1.0
Chlorpyrifos *	I	12.9	186	24	0.017 - 0.36	0.084	1.0
Cyhalothrin, Total [10] *	I	7	186	13	0.010 - 0.058	0.027	0.20
Dimethoate							
Dimethoate (parent)	I	6.5	186	12	0.005 - 0.30	0.066	2.0
Omethoate [12]	IM	5.4	186	10	0.009 - 0.063	0.032	2.0
Dinotefuran	I	8.6	186	16	0.010 - 0.25	0.086	0.7
Endosulfans							
Endosulfan I (isomer) [8]	IM	5.4	186	10	0.014 - 0.30	0.068	2.0
Endosulfan II (isomer) [9]	IM	7	186	13	0.021 - 0.35	0.078	2.0
Endosulfan sulfate [10]	IM	8.1	186	15	0.008 - 0.042	0.022	2.0
Imidacloprid	I	26.3	186	49	0.009 - 0.094	0.025	1.0
Methamidophos [13] *	I	5.9	186	11	0.011 - 0.25	0.091	1
Methoxyfenozide	I	8.1	186	15	0.006 - 0.055	0.017	2.0
Myclobutanil	F	16.1	186	30	0.001 - 0.33	0.023	4.0
Oxamyl							
Oxamyl (parent)	I	10.8	186	20	0.008 - 0.40	0.072	2.0
Oxamyl oxime [6]	IM	37.1	186	69	0.021 - 0.55	0.129	2.0

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
Permethrin							
Permethrin cis [4]	IM	14	186	26	0.004 - 0.10	0.027	0.50
Permethrin trans [4]	IM	14.5	186	27	0.003 - 0.14	0.026	0.50
Pyraclostrobin	F	22.6	186	42	0.001 - 0.088	0.02	1.4
Thiamethoxam *	I	33.3	186	62	0.010 - 0.12	0.027	0.25
17 Tangerines (3 pesticides)							
Imazalil	F	90.7	709	643	0.011 - 3.4	0.207	10.0
Pyrimethanil	F	9.7	709	69	0.003 - 0.77	0.069	10
Thiabendazole	F	72.2	709	512	0.010 - 1.2	0.13	10.0
18 Wheat grain (2 pesticides)							
Azoxystrobin	F	6.7	300	20	0.001 - 0.004	0.002	0.10
Deltamethrin [5] *	I	12.7	300	38	0.001 - 0.042	0.005	0.05
19 Winter Squash (6 pesticides)							
Bifenthrin *	I	15	742	111	0.005 - 0.049	0.008	0.4
Endosulfan sulfate [10]	IM	22.8	742	169	0.005 - 0.15	0.018	1.0
Imidacloprid	I	17.4	742	129	0.010 - 0.21	0.019	0.5
Propamocarb hydrochloride [11]	F	11.3	742	84	0.010 - 1.5	0.199	1.5
Pyraclostrobin	F	7.7	742	57	0.003 - 0.017	0.004	0.5
Thiamethoxam *	I	9.3	742	69	0.003 - 0.036	0.005	0.2

NOTES

A Excludes environmental contaminants, which are listed in Appendix G.
B Excludes groundwater and finished/untreated drinking water samples, which are listed in Appendix E and F.

NT No tolerance established.

* Residue may result from food handling establishment (FHE) application.
1 From parent, benomyl.
2 Metabolite of captafol and captan.
3 Includes cyhalothrin lambda plus R157836 epimer.
4 Isomer of parent, permethrin.
5 Metalaxyl/mefenoxam are spatial isomers which are analytically indistinguishable via multiresidue methods, but have separate registrations.
6 From parent, oxamyl.
7 Includes parent, tralomethrin.
8 From endosulfan (endosulfan I is an isomer of endosulfan).
9 From endosulfan (endosulfan II is an isomer of endosulfan).
10 From parent, endosulfan.
11 Analytically determined as the salt (hydrochloride).
12 Metabolite of parent, dimethoate.
13 Metabolite of parent, acephate.

Pesticide Types:
A = Acaricide
F = Fungicide, FM = Fungicide Metabolite
I = Insecticide, IM = Insecticide Metabolite
R = Insect Growth Regulator

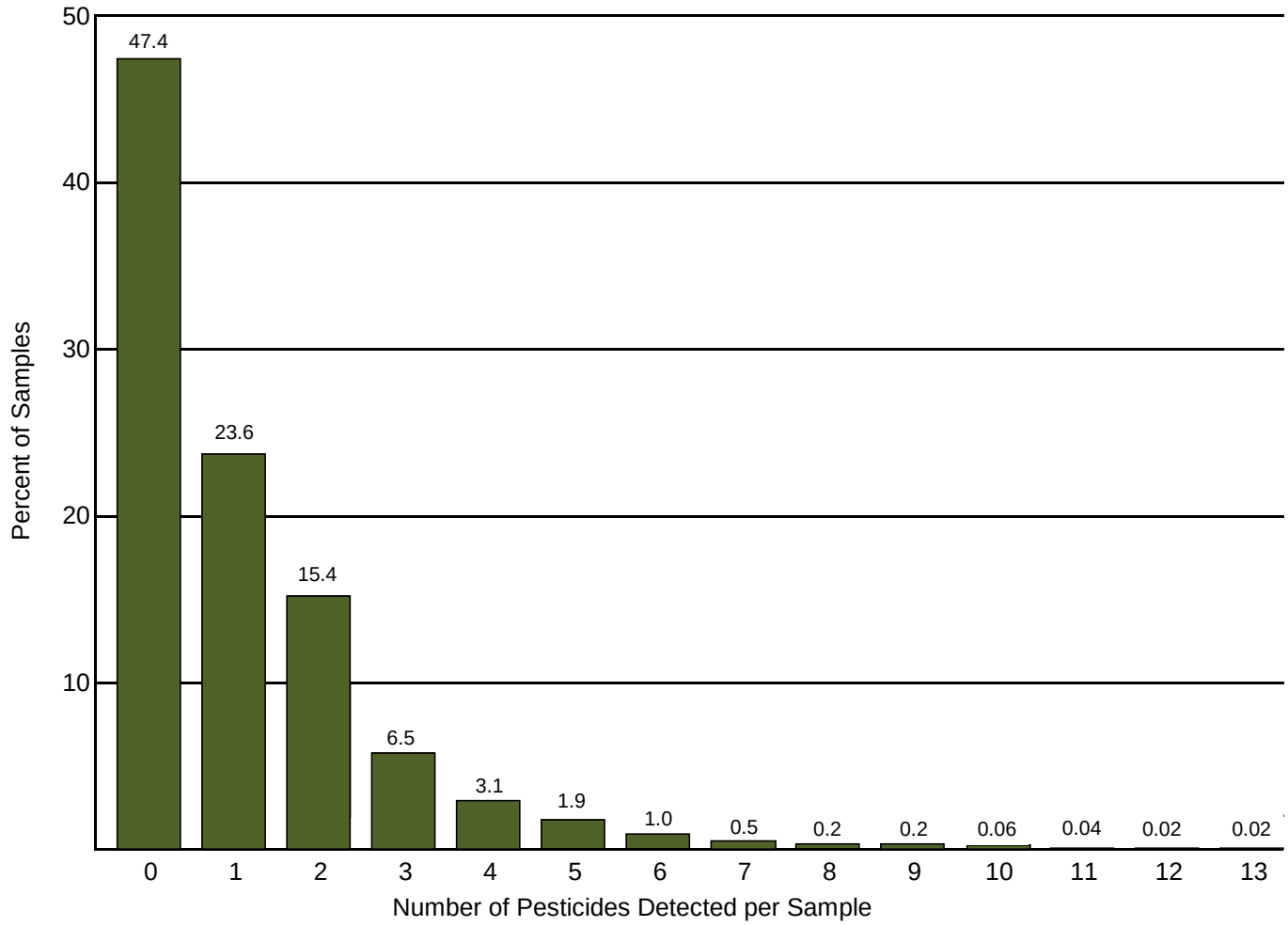
Appendix K

Samples vs. Number of Pesticides Detected per Sample

Appendix K 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 11,893 samples analyzed, 47.4 percent of the samples had no detectable pesticides, 23.6 percent had 1 pesticide, and 29 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 K. SAMPLES vs. NUMBER OF PESTICIDES [1] DETECTED PER SAMPLE [2]



Number of Pesticides Detected per Sample

	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Number of Samples	5,639	2,806	1,828	773	374	221	124	65	26	21	7	5	2	2
Percent of Total Samples	47.4	23.6	15.4	6.5	3.1	1.9	1.0	0.5	0.2	0.2	0.06	0.04	0.02	0.02

TOTAL NUMBER OF SAMPLES = 11,893

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 G, 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 K. SAMPLES vs. NUMBER OF PESTICIDES DETECTED PER SAMPLE

Commodity (# of samples)	Number of Pesticides [1] Detected per Sample [2]													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Fresh Fruit and Vegetables:	Percent													
Avocado (372)	98.9	1.1	--	--	--	--	--	--	--	--	--	--	--	--
Bananas (559)	22.7	35.6	35.6	5.5	0.5	--	--	--	--	--	--	--	--	--
Cantaloupe (372)	64.0	25.0	8.3	1.9	0.8	--	--	--	--	--	--	--	--	--
Cauliflower (737)	58.5	35.8	5.2	0.4	0.1	--	--	--	--	--	--	--	--	--
Cherry Tomatoes (744)	19.1	12.9	14.2	15.1	13.2	9.3	6.0	5.0	1.7	2.0	0.7	0.5	0.1	0.1
Mushrooms (744)	41.1	49.5	7.5	1.3	0.5	--	--	--	--	--	--	--	--	--
Onions (558)	90.7	5.9	2.3	1.1	--	--	--	--	--	--	--	--	--	--
Papaya (366)	82.2	16.9	0.5	0.3	--	--	--	--	--	--	--	--	--	--
Plums (697)	7.0	38.6	27.0	16.2	6.6	3.7	0.7		0.1	--	--	--	--	--
Snap Peas (743)	20.2	21.7	20.5	14.5	9.0	6.6	4.4	1.7	0.9	0.1	0.1	--	--	0.1
Summer Squash (186)	36.6	22.0	17.2	13.4	4.8	3.2	2.2	0.5	--	--	--	--	--	--
Sweet Bell Peppers (186)	10.2	17.2	14.0	14.0	13.4	10.8	8.1	5.9	2.2	2.7	0.5	0.5	0.5	--
Tangerines (709)	3.1	22.3	61.8	12.1	0.7	--	--	--	--	--	--	--	--	--
Winter Squash (742)	35.7	29.4	17.9	10.4	4.0	1.9	0.7	--	--	--	--	--	--	--
Processed Fruit and Vegetables:														
Apple Juice (396)	53.0	14.9	7.8	6.6	7.8	5.8	3.3	0.5	0.3	--	--	--	--	--
Baby Food - Applesauce (396)	50.3	27.3	16.9	3.5	1.8	0.3	--	--	--	--	--	--	--	--
Baby Food - Carrots (792)	99.6	0.3	--	0.1	--	--	--	--	--	--	--	--	--	--
Baby Food - Peaches (777)	24.2	38.0	20.8	10.0	4.8	1.5	0.5	0.1	--	--	--	--	--	--
Baby Food - Peas (395)	99.7	0.3	--	--	--	--	--	--	--	--	--	--	--	--
Orange Juice (330)	72.1	19.4	8.5	--	--	--	--	--	--	--	--	--	--	--
Percent of Total Samples	46.4	23.4	15.8	6.7	3.4	2.0	1.1	0.6	0.2	0.2	0.07	0.05	0.02	0.02
Actual Number of Samples	5,010	2,527	1,702	724	366	220	124	65	26	21	7	5	2	2
TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 10,801														
Grain Product:														
Wheat (300)	80.7	17.3	2.0	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	242	52	6	--	--	--	--	--	--	--	--	--	--	--
Dairy Product:														
Butter (792)	48.9	28.7	15.2	6.2	1.0	0.1	--	--	--	--	--	--	--	--
Actual Number of Samples	387	227	120	49	8	1	--	--	--	--	--	--	--	--

NOTES

[1] Environmental contaminants, listed in Appendix G, 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 168 groundwater and 485 drinking water samples.

Appendix L

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 L 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 2012, a total of 549 samples with 829 pesticides were reported to the FDA as Presumptive Tolerance Violations.

Pesticides exceeding the tolerance were detected in 63 samples including 24 cherry tomato samples, 32 snap pea samples, 2 samples of summer squash, 1 sample of sweet bell peppers, and 4 samples of winter squash. Of those 63 samples, 54 were reported as imported produce.

In addition, 508 samples were found to have pesticides for which no tolerance was established, including 472 fresh fruit and vegetable samples, 33 processed fruit/vegetable samples, and 3 butter samples.

- 336 samples contained 1 pesticide for which no tolerance was established.
- 108 samples contained 2 pesticides for which no tolerance was established.
- 43 samples contained 3 pesticides for which no tolerance was established.
- 20 samples contained 4 pesticides for which no tolerance was established.
- 1 sample of snap peas contained 5 pesticides for which no tolerance was established.

Twenty-two of the 508 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 L 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 L. 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	Cherry Tomatoes / Bifenthrin	0.004	0.35	0.15	Mexico
2	Cherry Tomatoes / Bifenthrin	0.004	0.2	0.15	U.S.
3	Cherry Tomatoes / Bifenthrin	0.004	0.16	0.15	Mexico
4	Cherry Tomatoes / Bifenthrin	0.004	0.16	0.15	U.S.
5	Cherry Tomatoes / Cypermethrin	0.06	0.33	0.2	U.S.
6	Cherry Tomatoes / Cypermethrin	0.06	0.33	0.2	Mexico
7	Cherry Tomatoes / Dinotefuran	0.047	3.0	0.7	U.S.
8	Cherry Tomatoes / Flonicamid	0.001	2.3	0.40	Mexico
9	Cherry Tomatoes / Flonicamid	0.001	1.4	0.40	Mexico
10	Cherry Tomatoes / Flonicamid	0.001	1.4	0.40	Mexico
11	Cherry Tomatoes / Flonicamid	0.001	1.3	0.40	Mexico
12	Cherry Tomatoes / Flonicamid	0.001	1.1	0.40	Mexico
13	Cherry Tomatoes / Flonicamid	0.001	0.91	0.40	Mexico
14	Cherry Tomatoes / Flonicamid	0.001	0.88	0.40	Mexico
15	Cherry Tomatoes / Flonicamid	0.001	0.85	0.40	Mexico
16	Cherry Tomatoes / Flonicamid	0.001	0.78	0.40	Mexico
17	Cherry Tomatoes / Flonicamid	0.001	0.63	0.40	Mexico
18	Cherry Tomatoes / Flonicamid	0.001	0.55	0.40	Mexico
19	Cherry Tomatoes / Flonicamid	0.001	0.52	0.40	Mexico
20	Cherry Tomatoes / Flonicamid	0.001	0.47	0.40	Mexico
21	Cherry Tomatoes / Flonicamid	0.001	0.41	0.40	Mexico
22	Cherry Tomatoes / Pyrimethanil	0.029	0.72	0.50	Mexico
23	Cherry Tomatoes / Pyrimethanil	0.029	0.65	0.50	Mexico
24	Cherry Tomatoes / Thiamethoxam	0.002	0.38	0.25	Mexico
25	Snap Peas / Abamectin	0.012	0.020	0.01	Peru
26	Snap Peas / Abamectin	0.012	0.020	0.01	Peru
27	Snap Peas / Abamectin	0.012	0.020	0.01	Peru
28	Snap Peas / Acephate	0.006	0.064	0.02	Guatemala
29	Snap Peas / Acephate	0.006	0.048	0.02	Guatemala
30	Snap Peas / Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	0.012	0.21	0.20	Guatemala
31	Snap Peas / Deltamethrin (includes parent Tralomethrin)	0.012	0.11	0.05	Guatemala
32	Snap Peas / Deltamethrin (includes parent Tralomethrin)	0.012	0.087	0.05	Peru
33	Snap Peas / Deltamethrin (includes parent Tralomethrin)	0.012	0.083	0.05	Peru
34	Snap Peas / Deltamethrin (includes parent Tralomethrin)	0.012	0.065	0.05	Peru

	Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
35	Snap Peas / Endrin	0.003	0.060	0.03 AL	Mexico
36	Snap Peas / Methamidophos	0.003	0.070	0.02	Mexico
37	Snap Peas / Methamidophos	0.001	0.055	0.02	U.S.
38	Snap Peas / Spinosad	0.006	0.46	0.30	Mexico
39	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.38	0.05	Guatemala
40	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.20	0.05	Guatemala
41	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.012	0.15	0.05	Guatemala
42	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.15	0.05	Guatemala
43	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.12	0.05	Guatemala
44	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.009	0.11	0.05	Guatemala
45	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.11	0.05	Guatemala
46	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.10	0.05	Guatemala
47	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.009	0.095	0.05	Guatemala
48	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.009	0.093	0.05	Guatemala
49	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.009	0.087	0.05	Guatemala
50	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.081	0.05	Guatemala
51	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.004	0.078	0.05	Guatemala
52	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.009	0.075	0.05	Guatemala
53	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.009	0.069	0.05	Guatemala
54	Snap Peas / Tetrahydrophthalimide (THPI) [1]	0.009	0.068	0.05	Guatemala
55	Snap Peas / Thiamethoxam	0.005	0.068	0.02	Guatemala
56	Snap Peas / Thiamethoxam	0.005	0.032	0.02	Guatemala
57	Summer Squash / Acephate	0.03	0.051	0.02	U.S.
58	Summer Squash / Acephate	0.006	0.043	0.02	U.S.
59	Sweet Bell Peppers / Fludioxonil	0.015	0.051	0.01	Spain
60	Winter Squash / Tetrahydrophthalimide (THPI) [1]	0.009	0.35	0.05	U.S.
61	Winter Squash / Tetrahydrophthalimide (THPI) [1]	0.009	0.14	0.05	U.S.
62	Winter Squash / Tetrahydrophthalimide (THPI) [1]	0.009	0.079	0.05	Mexico
63	Winter Squash / Tetrahydrophthalimide (THPI) [1]	0.009	0.067	0.05	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 Avocado (1 pesticide)								
Imiprothrin	372	4	1.1	0.077 - 0.20	0.075 ^	1	3	0
2 Baby Food - Applesauce (1 pesticide)								
Flusilazole	396	1	0.3	0.003 ^	0.002 ^	1	0	0
3 Baby Food - Peaches (1 pesticide)								
Thiabendazole	777	6	0.8	0.011 - 0.015	0.003 - 0.009	6	0	0
4 Butter (3 pesticides)								
Chlorpropham	792	1	0.1	0.002 ^	0.001 ^	1	0	0
Imidacloprid	792	1	0.1	0.005 ^	0.001 - 0.003	1	0	0
Thiabendazole	792	1	0.1	0.002 ^	0.001 ^	1	0	0
5 Cauliflower (1 pesticide)								
Chlorpropham	737	2	0.3	0.005 - 0.010	0.003 ^	2	0	0
6 Cherry Tomatoes (1 pesticide)								
Azinphos methyl oxygen analog	744	3	0.4	0.010 ^	0.006 ^	0	3	0
7 Mushrooms (4 pesticides)								
Carbendazim (MBC)	744	35	4.7	0.001 - 0.70	0.001 ^	17	18	0
Dimethoate	744	3	0.4	0.006 - 0.020	0.005 ^	0	3	0
o-Phenylphenol [2]	744	28	3.8	0.005 - 0.073	0.005 - 0.010	25	3	0
Propoxur	682	4	0.6	0.004 - 0.005	0.003 ^	4	0	0
8 Onion (1 pesticide)								
Methomyl	279	1	0.4	0.052 ^	0.012 ^	1	0	0
9 Orange Juice (1 pesticide)								
Carbendazim (MBC)	330	26	7.9	0.002 - 0.011	0.001 ^	2	24	0
10 Plums (7 pesticides)								
Chlorpropham	697	6	0.9	0.008 - 0.059	0.005 - 0.006	6	0	0
Imazalil	697	7	1	0.005 - 0.016	0.003 ^	5	2	0
Omethoate	697	1	0.1	0.005 ^	0.003 ^	0	1	0
Pirimicarb	697	2	0.3	0.010 ^	0.006 ^	0	2	0
Propargite	697	3	0.4	0.005 ^	0.003 ^	3	0	0
Tetraconazole	697	2	0.3	0.010 - 0.021	0.006 ^	0	2	0
Thiabendazole	697	34	4.9	0.005 - 0.027	0.003 ^	9	25	0
11 Snap Peas (31 pesticides)								
Buprofezin	743	2	0.3	0.010 - 0.019	0.001 - 0.003	0	2	0
Carbendazim (MBC)	743	172	23.1	0.002 - 3.4	0.001 - 0.002	6	166	0
Chlorpropham	743	10	1.3	0.002 - 0.006	0.001 - 0.006	2	8	0
Cyprodinil	372	1	0.3	0.005 ^	0.003 ^	0	1	0
Cyromazine	743	21	2.8	0.004 - 2.3	0.002 - 0.008	0	21	0
DCPA	743	15	2	0.002 - 0.004	0.001 - 0.002	14	1	0
Difenoconazole	743	96	12.9	0.002 - 0.14	0.001 - 0.003	4	92	0
Dimethomorph	743	4	0.5	0.005 - 0.006	0.001 - 0.003	1	3	0
Emamectin benzoate	371	1	0.3	0.002 ^	0.001 ^	0	1	0
Etoxazole	743	1	0.1	0.004 ^	0.001 - 0.002	1	0	0
Fenamidone	743	1	0.1	0.004 ^	0.002 - 0.006	0	1	0
Fenhexamid	728	2	0.3	0.067 - 0.13	0.009 - 0.024	0	2	0
Fipronil	371	1	0.3	0.011 ^	0.003 - 0.010	0	1	0
Fluopicolide	372	5	1.3	0.003 - 0.17	0.002 ^	0	5	0
Iprodione	743	27	3.6	0.005 - 5.5	0.003 - 0.060	0	27	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.
Linuron	743	3	0.4	0.005 - 0.037	0.003 - 0.006	1	2	0
Mandipropamid	743	3	0.4	0.008 - 0.030	0.003 - 0.005	1	2	0
Oxamyl	743	2	0.3	0.003 - 0.009	0.002 - 0.006	0	2	0
Permethrin								
Permethrin cis [3]	743	21	2.8	0.002 - 0.057	0.001 - 0.006	2	19	0
Permethrin trans [3]	728	15	2.1	0.002 - 0.040	0.001 - 0.006	1	14	0
Phorate sulfoxide	743	1	0.1	0.003 ^	0.002 - 0.003	0	1	0
Profenofos	371	25	6.7	0.003 - 0.056	0.002 ^	0	25	0
Prometryn	743	2	0.3	0.002 - 0.018	0.001 - 0.005	2	0	0
Propamocarb hydrochloride [4]	372	12	3.2	0.010 - 1.6	0.006 ^	1	11	0
Pyrimethanil	743	12	1.6	0.002 - 0.15	0.001 - 0.003	0	12	0
Spiromesifen								
Spiromesifen (parent)	372	4	1.1	0.005 - 0.099	0.003 ^	0	4	0
Spiromesifen Total [5]	371	1	0.3	0.010 ^	0.006 ^	0	1	0
Tebuconazole	743	83	11.2	0.003 - 0.22	0.002 - 0.006	2	81	0
Thiabendazole	743	5	0.7	0.002 - 0.006	0.001 - 0.003	1	4	0
Thiacloprid	743	17	2.3	0.002 - 0.49	0.001 - 0.003	1	16	0
Triadimenol	372	11	3	0.030 - 0.32	0.018 ^	2	9	0
Trifloxystrobin	743	4	0.5	0.002 - 0.009	0.001 - 0.002	0	4	0
Triflumizole	372	1	0.3	0.064 ^	0.003 ^	0	1	0
12 Summer Squash (1 pesticide)								
Norflurazon desmethyl	94	1	1.1	0.010 ^	0.006 ^	1	0	0
13 Sweet Bell Peppers (3 pesticides)								
Carbendazim (MBC)	186	1	0.5	0.011 ^	0.005 ^	0	1	0
Cyprodinil	186	1	0.5	0.010 ^	0.004 ^	0	1	0
Pyrimethanil	186	1	0.5	0.022 ^	0.002 ^	1	0	0
14 Tangerines (2 pesticides)								
Aldicarb sulfoxide	709	1	0.1	0.015 ^	0.010 ^	1	0	0
Pirimicarb	709	1	0.1	0.008 ^	0.005 ^	0	1	0
15 Winter Squash (8 pesticides)								
Chlorpropham	742	8	1.1	0.008 - 0.025	0.005 - 0.006	2	6	0
Fenbuconazole	742	5	0.7	0.010 - 0.041	0.006 ^	1	4	0
Iprodione	742	4	0.5	0.005 - 0.079	0.003 ^	1	3	0
Pendimethalin	742	1	0.1	0.010 ^	0.006 ^	1	0	0
Pentachlorobenzene (PCB)	742	1	0.1	0.010 ^	0.002 ^	0	1	0
Propiconazole	742	1	0.1	0.010 ^	0.006 ^	0	1	0
Spirodiclofen	742	2	0.3	0.005 - 0.012	0.003 ^	2	0	0
Thiabendazole	742	1	0.1	0.36 ^	0.003 ^	1	0	0

NOTES

AL 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.

1 Metabolite of captafol and captan.

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

3 Six samples contained only the cis permethrin isomer, no samples contained only the trans permethrin isomer, and 15 samples contained both the cis and trans isomers.

4 Propamocarb analytically determined as the salt (hydrochloride).

5 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 2012

Your satisfaction is very important to us, and we welcome your comments and suggestions. Thank you for taking time to fill out and return this card.

How would you rate this document on:	**Good**	**Fair**	**Poor**
Visual Presentation?	☐	☐	☐
Ease of Readability?	☐	☐	☐
Information Provided?	☐	☐	☐

Comments/ Suggestions: (Attach additional pages if needed)

_____

_____

_____

_____

_____

_____

How did you obtain this copy? _____

Would you like additional copies? (limit 10 per person, 25 per organization)

Requested _____

Mailing Address _____

_____

_____

_____

Mail or Fax to:

USDA-AMS-S&T-Monitoring Programs Division
8609 Sudley Road, Suite 206
Manassas, VA 20110

Facsimile: (703) 369-0678

Electronic Mail: amsmpo.data@ams.usda.gov

Notice: The Pesticide Data Program Annual Summary for Calendar Year 2012 is the last annual summary available in printed format. Subsequent PDP annual summaries and corresponding data will be available in digital format at www.ams.usda.gov/pdp.