United States Department of Agriculture

Agricultural Marketing Service

Science and Technology Program

Pesticide Data Program

Annual Summary, Calendar Year 2013

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

December 2014

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Dear Reader:

We are pleased to present the Pesticide Data Program's (PDP) 23rd Annual Summary for calendar year 2013. 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 food 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. Rather, the U.S. Food and Drug Administration (FDA) is responsible for enforcing EPA tolerances. PDP provides FDA and EPA with monthly reports of pesticide residue testing and informs the FDA if residues detected exceed the EPA tolerance or have no EPA tolerance established. In instances where a PDP finding is extraordinary and may pose a safety risk, FDA and EPA are notified immediately. In such cases, USDA may also work with U.S. growers in an outreach effort to communicate possible pesticide regulatory decisions or improved agricultural practices.

The PDP works with State agencies representing all regions of the country and more than half of the U.S. population. In 2013, 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.

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

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Executive Summary

In 1991, the U.S. Department of Agriculture (USDA), Agricultural Marketing Service (AMS), was charged with designing and implementing the Pesticide Data Program (PDP) to collect data on pesticide residues in food. PDP provides high-quality data on residues in food, particularly foods most likely consumed by infants and children. This 23rd Pesticide Data Program summary presents results for samples collected in 2013.

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.

Drinking water sampling from public utilities was conducted by utility personnel while homeowners sampled their own well (ground) water. In 2013, a groundwater survey of schools and childcare facilities also 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 the 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.

Fresh and processed fruit and vegetables accounted for 84.4 percent of the total 10,104 samples collected in 2013. Other samples collected included butter, 7.5 percent; infant formula, 3.5 percent; salmon, 3.5 percent; and water, 1.1 percent. Fresh and processed fruit and vegetables tested during 2013 were: apple juice, baby food (applesauce and peas), bananas, broccoli, carrots, cauliflower, celery, grape juice, greens beans, mushrooms, nectarines, peaches, plums, raspberries (fresh and frozen), summer squash, and winter squash. Excluding water samples, which were all from domestic sources, domestic samples accounted for 70.8 percent of the samples while 26.6 percent were imports, 1.9 percent were of mixed origin, and 0.7 percent were of unknown origin.

Because PDP data are mainly used for risk assessments, PDP laboratory methods are geared to detect the smallest possible levels of pesticide residues, even when those levels are well below the tolerances established by EPA. Prior to testing, PDP analysts washed samples for 15-20 seconds with gently running cold water as a consumer would do; no chemicals, soap, or any special wash was used. Results for more than 2 million analyses

were reported by the laboratories in 2013 and are too numerous to be included in their entirety in this summary. The PDP database file for 2013 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.

In 2013, over 40 percent of the samples tested had no detectable pesticide residue. Appendixes B through G provide a distribution of residues by pesticide for the commodities tested. Excluding water, residues exceeding the tolerance were detected in 0.23 percent (23 samples) of the total samples tested (9,990 samples). Of these 23 samples, 17 were imported (74 percent) and 6 were domestic (26 percent). Residues with no established tolerance were found in 3.0 percent (301 samples) of the total samples tested (9,990 samples). Of these 301 samples, 151 were domestic (50.2 percent), 148 were imported (49.2 percent), and 2 were of unknown origin (0.6 percent). 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.

PDP laboratories also test foods for low levels of environmental contaminants that are no longer used in the United States, but due to their persistence in the environment, particularly in soil, can be taken up by plants. Results for environmental contaminants in all commodities are listed in Appendix H. More information on results is provided in the Sample Results and Discussion section of this summary.

Also in 2013, 100 (treated and untreated) drinking water samples were collected at water treatment facilities in 6 States and 14 groundwater samples were collected from private domestic wells and school/childcare facilities in 5 States. 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 2013, 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 collecting, 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 the public by hard copy, Internet, or custom reports generated by MPD. Additional copies of the PDP Annual Summary may be obtained 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
EPA	Environmental Protection Agency
e-SIF	Electronic Sample Information Form
FAO	Freshwater Aquatic Organism
FAPAS	Food Analysis Performance Assessment Scheme
FDA	Food and Drug Administration
FQPA	Food Quality Protection Act
GC	Gas Chromatography
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
NASS	National Agricultural Statistics Service
PDP	Pesticide Data Program
PT	Proficiency Testing
QA	Quality Assurance
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
USDA	United States Department of Agriculture

Pesticide Data Program (PDP)
Annual Summary, Calendar Year 2013

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 U.S. Department of Agriculture (USDA) Agricultural Marketing Service (AMS) initiated the Pesticide Data Program (PDP) 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.

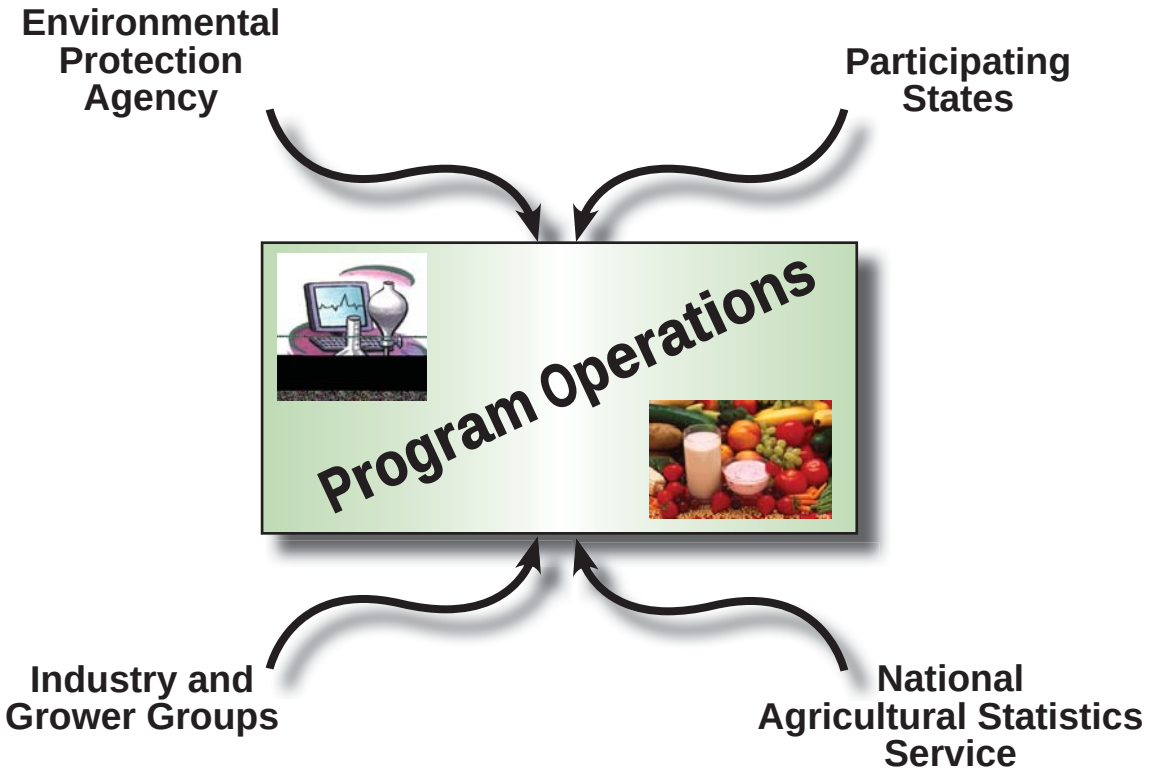
Because PDP collects data on food commodities primarily for exposure assessment, program operations differ markedly from those followed by regulatory monitoring programs for tolerance enforcement. PDP samples are collected closer to the point of consumption and are prepared emulating consumer practices. 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 United States.

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

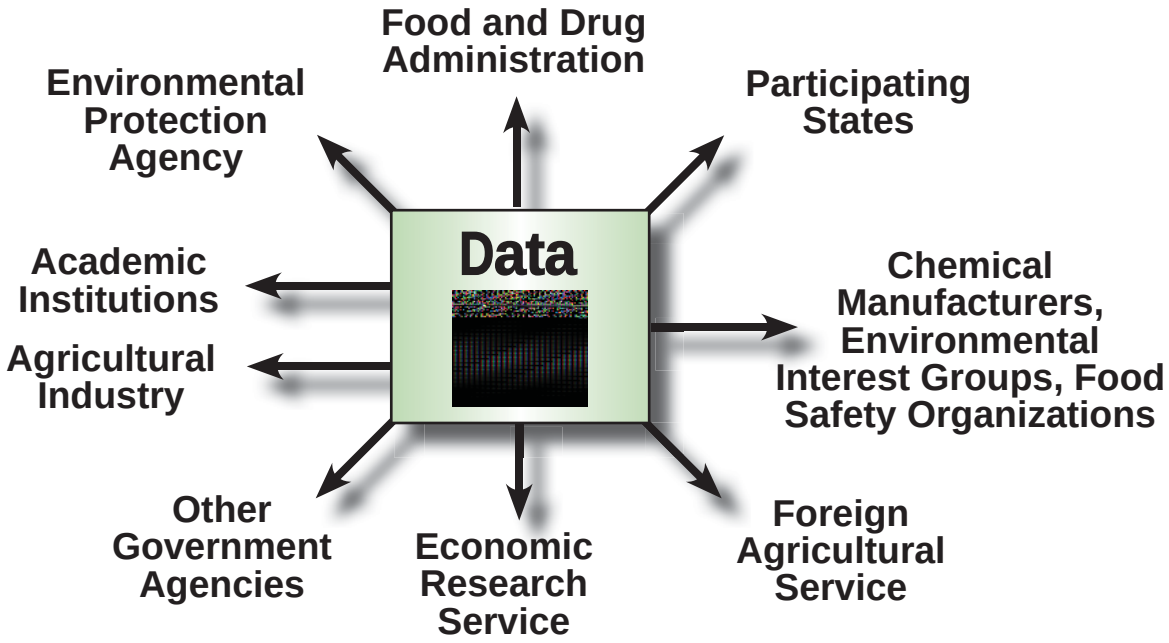
In 2013, sampling services were provided by 11 States (California, Colorado, Florida, Maryland, Michigan, New York, North Carolina, Ohio, Texas, Washington, and Wisconsin). Sampling services for drinking water were provided by participating facility personnel at eight individual sites in six States. A voluntary groundwater survey was continued in 2013 with homeowners and school/childcare facilities at 14 sites in 5 States.

Laboratory services were provided by the States of California, Florida, Michigan, Minnesota, Montana, New York, Ohio, Texas, and Washington. 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 United States. They also represent major U.S. producers of fruit and vegetables. MPD 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 by infants and children. Commodities are cycled through the program approximately every 5 years. High-consumption fresh fruit and vegetable commodities remain in the program for 2 years to capture two full growing seasons, thereby



(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.*

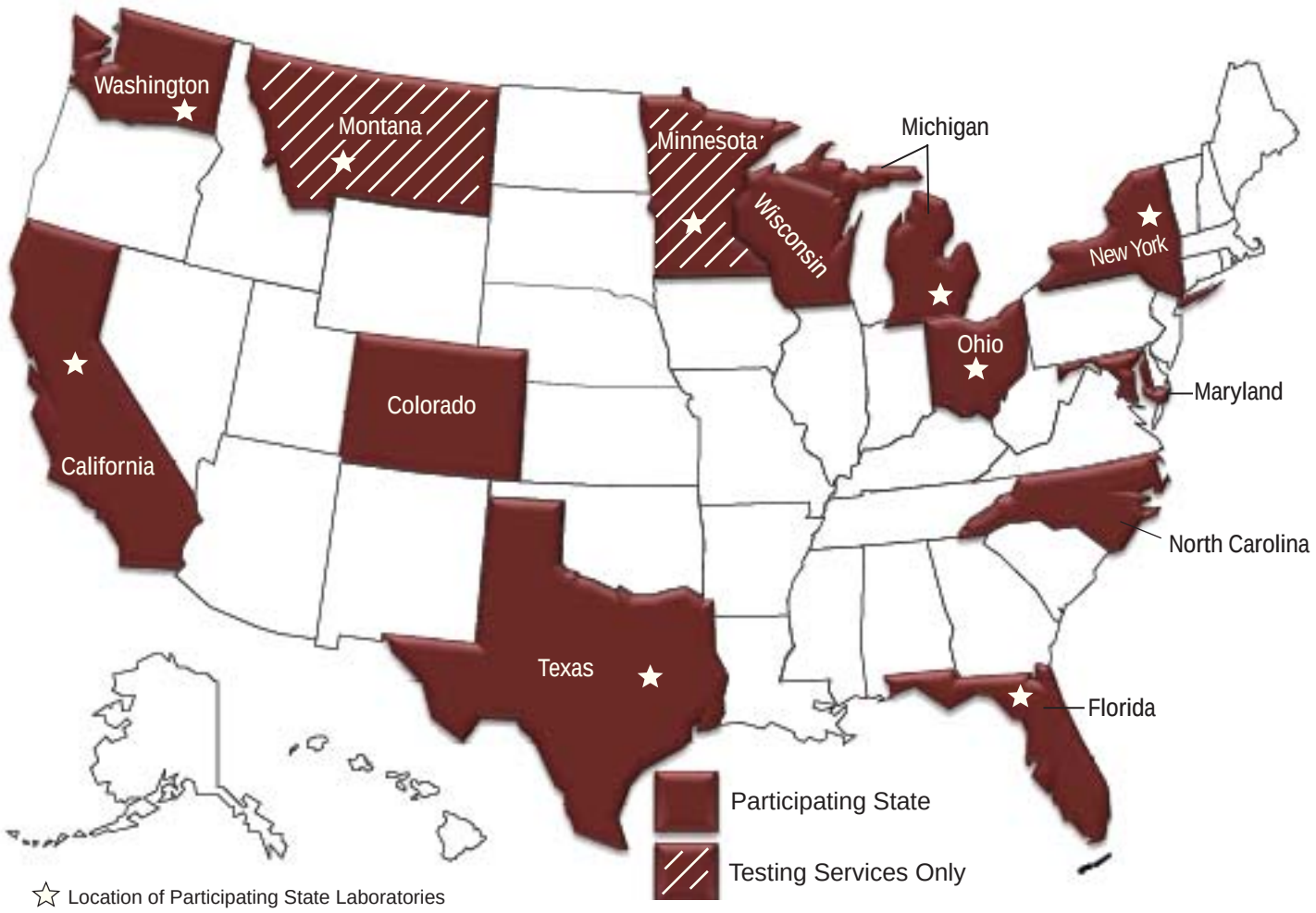


Figure 2. Program Participants. *During 2013, AMS established cooperative agreements with 13 States to sample and/or test PDP commodities. Together, these States represent about 50 percent of the Nation's population and all 4 census regions of the U.S. They also represent major U.S. producers of fruit and vegetables. State laboratories are responsible for analyzing fresh and processed fruit and vegetable, infant formula, butter, salmon, groundwater, and drinking water samples.*

capturing any changes due to seasonality or year-to-year variations. Processed products, as well as dairy, meat, fish, and grains, are tested for 1 full year. Appendix A provides a list of commodities tested by PDP from the beginning of the program in 1991 through 2014.

Fruit and vegetable samples are collected at terminal markets[1] 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 2013, 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

[1] Terminal markets are facilities where wholesalers receive large quantities of fresh fruit and vegetables by rail, truck and air from around the world for sale to grocers, restaurants, institutions, and other businesses. Terminal markets are often located in metropolitan areas at or near major transportation hubs.

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 United States. The following appendixes list the specific pesticides tested in the program: fruit and vegetables (Appendix B), infant formula (Appendix C), butter (Appendix D), salmon (Appendix E), potable groundwater (Appendix F), and municipal drinking water (Appendix G). Environmental contaminants, or pesticides whose uses have been canceled in the United States but their residues persist in the environment, are consolidated into Appendix H, which summarizes findings for these chemicals across all commodities.

II. Sampling Operations

♦ Background

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

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, infant formula, butter, and salmon samples collected in each participating State is determined by State population. The number and location of groundwater samples are determined based on geographic region, location in an agricultural area, and the willingness of the well owners to participate in the program. The quarterly collection schedule for all 2013 commodities is shown in Table 1.

In 2013, fruit, vegetables, infant formula, butter, and salmon 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 2013, 29.7 percent of fruit, vegetable, infant formula, butter, and salmon samples were collected at proxy sites. The commodities most often collected at these facilities were infant formula, grape juice, baby foods (applesauce and peas), frozen raspberries, apple juice, and salmon.

Treated and untreated drinking water samples were collected onsite by trained personnel at selected water treatment facilities across the country. Potable groundwater samples were collected from private domestic wells by homeowners and school/childcare facility personnel. Participation in the groundwater survey is voluntary, with site selections based on agricultural chemical usage in the surrounding watershed and geographic location.

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 collectors are provided with commodity Fact Sheets and Quick Reference Guides that list specific

Commodity	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	End Date
Apple Juice					Jun-13
Baby Food-Apple Sauce					Jun-13
Baby Food-Peas					Jun-13
Bananas					Mar-14
Broccoli					Dec-14
Butter					Dec-13
Carrots					Dec-14
Cauliflower					Sep-13
Celery					Dec-14
Dairy-based Formula					Sep-14
Fish, Salmon					Jun-14
Grape Juice					Sep-14
Green Beans					Jun-15
Mushrooms					Sep-13
Nectarines					Dec-15
Peaches					Jun-15
Plums					Sep-13
Raspberries					Dec-13
Raspberries, Frozen					Dec-13
Soy-based Formula					Sep-14
Summer Squash					Sep-14
Water, Finished					Apr-13
Water, Groundwater					Feb-13
Water, Untreated					Apr-13
Winter Squash					Mar-13

Table 1. Pesticide Data Program (PDP) Commodity Collection Schedule for 2013. *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 2014).*

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, grape juice, infant formula, and baby foods (applesauce and peas) are often shipped by ground transportation to reduce shipping costs. 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 tablets 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 2013, 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. At the beginning of 2013, these population- and distribution-network-based numbers resulted 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. This schedule resulted in a monthly target of 62 samples per commodity or 744 samples per commodity per year. Due to budgetary restrictions, PDP adjusted sampling rates during the year. By the end of 2013, the monthly collection assignment for each State was as follows: California, 13; Colorado, 2; Florida, 7; Maryland, 4; Michigan, 6; New York, 9; Ohio, 6; Texas, 8; and Washington, 4. The schedule results in a monthly target of 59 samples per commodity or 708 samples per commodity per year. Additionally, North Carolina collected four samples per month for selected commodities -- apple juice, baby foods (applesauce and peas), butter, green beans, and peaches.

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. Table 3 lists the acceptable product types for each collected commodity as seen on Commodity Fact Sheets provided to sample collectors. For all commodities, domestic or imported and organically grown or conventionally grown products are acceptable.

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 versus import) are depicted by month for raspberries and summer squash. Fresh and processed fruit and vegetable, infant formula, butter, and salmon samples originated from 36 States and 34 foreign countries (refer to Appendix I). Groundwater and drinking water samples are excluded from Appendix I because they rely on differential sampling frames.

♦ Fresh and Processed Commodities

Of all samples collected and analyzed in 2013, 84.4 percent (8,526 of 10,104) were fruit and

State	BN	BR	CE	CF	CR	GB	MU	NE	PC	PU	RS	SS	WS	Total Fresh
California	156	154	156	117	156	78	117	124	64	118	151	156	39	1,586
Colorado	24	24	24	18	24	12	18	17	8	14	24	24	6	237
Florida	84	84	84	63	84	42	63	71	31	66	75	84	21	852
Maryland	48	48	48	36	48	24	36	38	17	32	48	48	12	483
Michigan	66	66	66	48	66	36	48	51	24	61	61	66	18	677
New York	108	108	108	81	108	54	81	91	54	81	105	108	27	1,114
N. Carolina						24			12					36
Ohio	66	66	66	48	68	36	48	46	24	43	53	66	18	648
Texas	98	100	98	75	100	48	75	62	35	58	94	99	28	970
Washington	48	48	48	36	48	24	36	36	16	28	34	48	12	462
Wisconsin	10	10	10	10	10		10	7		6	7	10	6	96
TOTAL	708	708	708	532	712	378	532	543	285	507	652	709	187	7,161

State	AJ	GJ	IA	IE	RZ	Total Processed	Total Fresh & Proccessed F&V	Infant Formula		Dairy	Fish
								DF	YF	BU	FS
California	78	39	78	78	3	276	1,862	39	41	156	78
Colorado	12	5	12	12		41	278	6	6	23	12
Florida	42	21	42	42	9	156	1,008	21	21	84	42
Maryland	24	12	24	24		84	567	12	12	48	24
Michigan	30	18	30	30	5	113	790	18	18	66	36
New York	54	27	54	53	3	191	1,305	27	27	108	54
N. Carolina	24		24	24		72	108			48	
Ohio	30	18	30	30	13	121	769	18	18	66	35
Texas	51	24	51	51	3	180	1,150	24	24	99	47
Washington	24	12	24	24	14	98	560	12	12	48	24
Wisconsin	10		10	10	3	33	129			10	
TOTAL	379	176	379	378	53	1,365	8,526	177	179	756	352

Commodity Legend		
AJ = Apple Juice	FS = Fish, Salmon	PU = Plums
BN = Bananas	GB = Green Beans	RS = Raspberries
BR = Broccoli	GJ = Grape Juice	RZ = Raspberries, Frozen
BU = Butter	IA = Baby Food - Applesauce	SS = Summer Squash
CE = Celery	IE = Baby Food - Peas	WS = Winter Squash
CF = Cauliflower	MU = Mushrooms	YF = Soy-based Infant Formula
CR = Carrots	NE = Nectarines	
DF = Dairy-based Infant Formula	PC = Peaches	

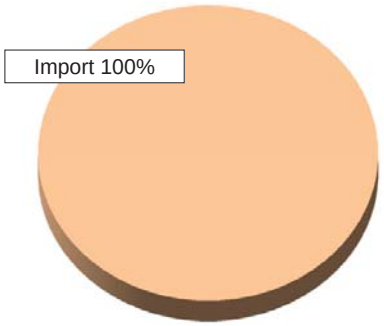
Table 2. Distribution of Samples Collected and Analyzed by Each Participating State. *This table includes those commodities collected at terminal markets, distribution centers, and retail markets. This table does not show the 14 groundwater samples that were collected at residential or school/daycare wells or the 100 finished/untreated drinking water samples that were collected at water treatment facilities.*

Commodity	Acceptable Products
Apple Juice	100% apple juice. Single strength (juice may have been reconstituted from concentrate). Ready-to-serve in cartons, jars, cans, or plastic containers. Individual single-service box containers are acceptable as long as they are all from the same lot number. All apple juice must be 100% pasturized.
Baby Food - Apple-sauce	Pureed Stage 1 (First Food) or Stage 2 (Second Food) apples/applesauce baby food. Container may be glass or plastic. May contain docosahexaenoic acid (DHA), arachidonic acid (ARA), choline, vitamin E or gelatin.
Baby Food - Peas	Pureed Stage 1 (First Food) or Stage 2 (Second Food) peas baby food. Container may be glass or plastic. May contain DHA, ARA, choline, vitamin E or gelatin.
Bananas	Whole, fresh bananas.
Broccoli	Fresh Broccoli. Broccoli crowns (bunch with top florets plus a little of the stem) are preferred. Broccoli with stems (bunch with top florets plus a lot of the stem) is acceptable if broccoli crowns are not available.
Butter	Salted or unsalted sweet butter in cubes or sticks.
Carrots	Fresh, whole carrots, with or without tops.
Cauliflower	Any fresh, whole cauliflower.
Celery	Fresh, whole celery.
Grape Juice	100% Grape Juice. Concord, red or white grape juice. Added nutritional ingredients such as citric acid and ascorbic acid. Ready-to-serve or frozen concentrate are rotated according to a fixed schedule. Ready-to-serve: single strength (grape juice may have been reconstitutued from concentrate). Shelf-stable or refrigerated. Individual single-serving boxes with the same lot number. Frozen concentrate includes cans of concentrated grape juice that are frozen. Non-concentrated grape juice may not be substituted for frozen grape juice concentrate.
Green Beans	Fresh green string beans. Whole or pre-cut.
Infant Formula, Dairy-Based	Any dairy-based infant formula. Powdered, concentrated liquid, or ready-to-eat. Samples may contain ARA, DHA, Choline, vitamins, minerals (e.g., iron, zinc, etc.), probiotics, and prebiotics. Formula with pre-digested proteins (i.e., hydrolyzed proteins).
Infant Formula, Soy-Based	Any soy-based infant formula. Powdered, concentrated liquid, or ready-to-eat. Samples may contain ARA, DHA, Choline, vitamins, minerals (e.g., iron, zinc, etc.), probiotics, and prebiotics. Formula with pre-digested proteins (i.e., hydrolyzed proteins).
Mushrooms	Any fresh whole, white (Agaricus/button) or brown (crimini or portabella) mushroom.
Nectarines	Any fresh, whole nectarines.
Peaches	Fresh, whole peaches. Red or white. Clingstone, freestone or semi-freestone. Attempt to select peaches that are not overly ripe or soft to the touch.
Plums	Fresh, whole plums. Any color except green is acceptable. Hybrids of plums with apricots, such as plumcots, pluots or dinosaur eggs (this includes interspecific plums with a PLU of 3278).
Raspberries	Any fresh, whole raspberry. Red, black, purple or golden (yellow). Fresh are preferred but frozen are acceptable.
Raspberries, Frozen	Frozen raspberries. Red, black, purple or golden (yellow). Individually quick frozen (IQF) or frozen are acceptable.
Salmon	Fresh or frozen raw (uncooked) salmon. Filets, nuggets, strips or steaks; bones-in or no bones; Atlantic or Pacific; farm-raised or wild caught.
Summer Squash	Fresh whole zucchini, yellow squash or crookneck squash.
Winter Squash	Whole winter squash varieties include but are not limited to: Acorn, banana, Boston marrow, buttercup, butternut, Hubbard and spaghetti.

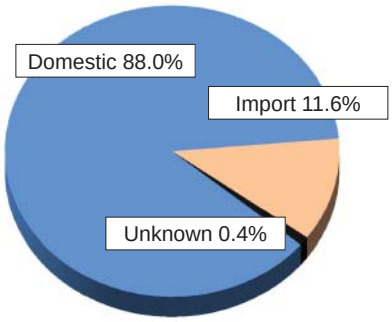
Table 3. Acceptable Products for Collected Commodities. *This table lists the acceptable products for each collected commodity as seen on Commodity Fact Sheets provided to sample collectors. For all commodities, domestic or imported and organically grown or conventionally grown products are acceptable.*

A. Fresh Fruit and Vegetable Samples

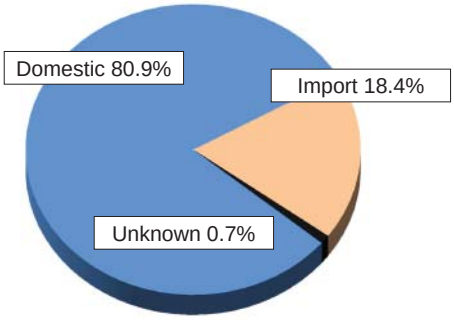
Bananas (708 Samples)



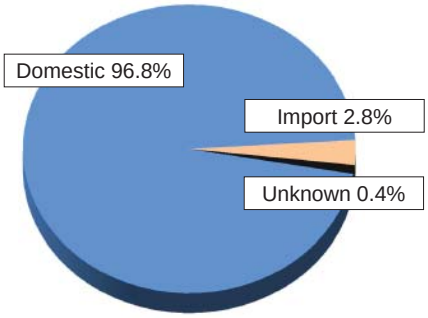
Broccoli (708 Samples)



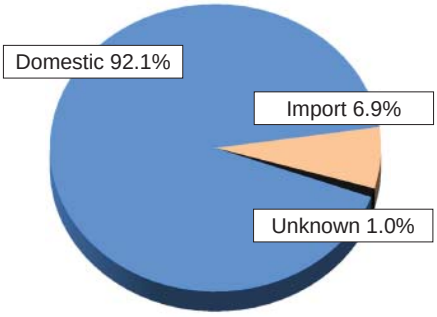
Carrots (712 Samples)



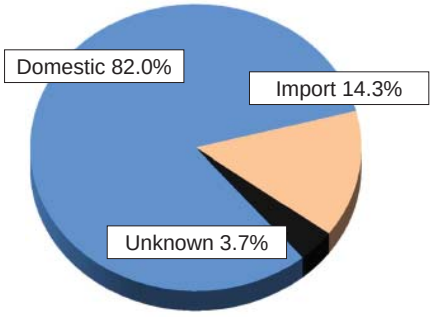
Cauliflower (532 Samples)



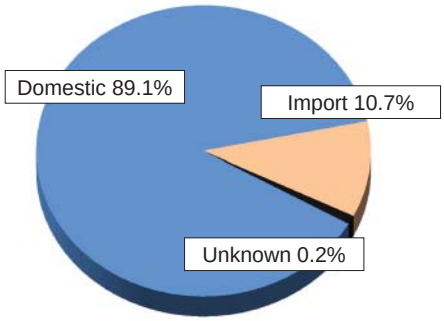
Celery (708 Samples)



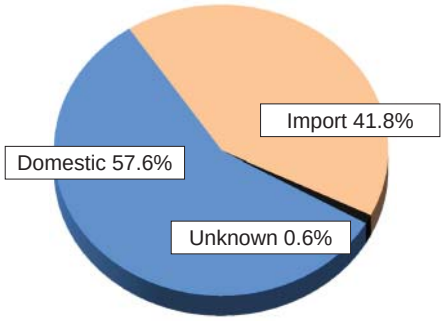
Green Beans (378 Samples)



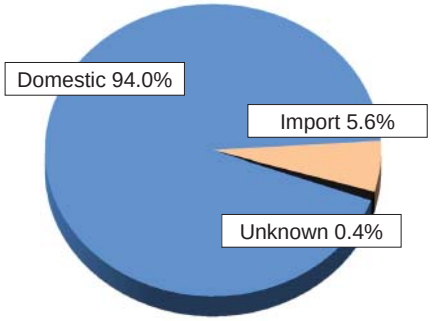
Mushrooms (532 Samples)



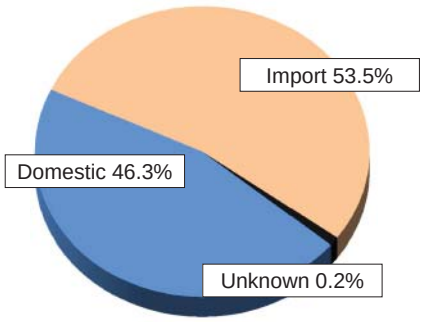
Nectarines (543 Samples)



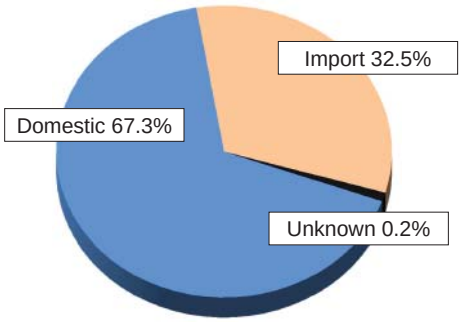
Peaches (285 Samples)



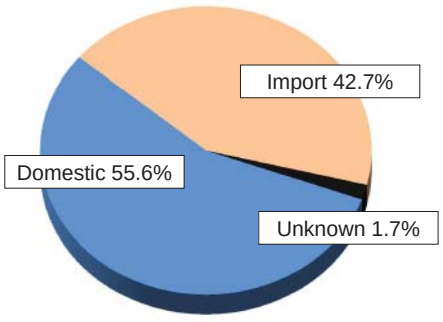
Plums (507 Samples)



Raspberries (652 Samples)



Summer Squash (709 Samples)



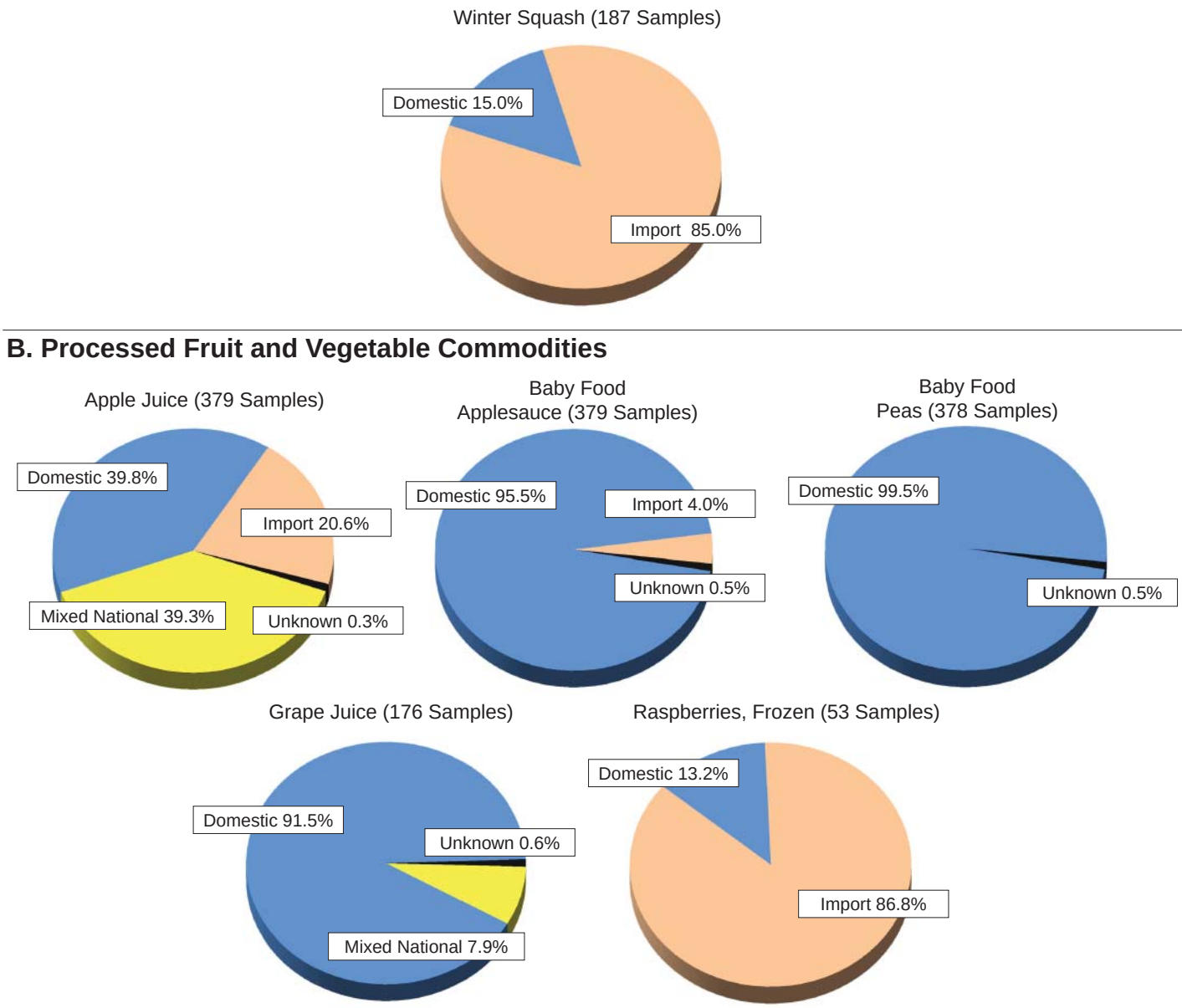


Figure 3. Commodity Origin. *This figure depicts the proportion of commodity origin (domestic, import, unknown and mixed national origin) for each fresh and processed fruit and vegetable product tested in 2013.*

vegetables, including fresh and processed products. The fresh commodities collected for PDP were bananas, broccoli, carrots, cauliflower, celery, green beans, mushrooms, nectarines, peaches, plums, raspberries, summer squash, and winter squash. The processed commodities included ready-to-serve apple juice, baby food (applesauce and peas), grape juice (ready-to-serve and concentrate), and frozen raspberries. All fresh fruit and vegetable samples weighed either 3 or 5 pounds with the exception of raspberry samples that weighed 1 dry U.S. pint (~0.6 pound). Three pounds were collected for smaller, low-weight commodities such as green beans and mushrooms and 5 pounds were collected for larger, high-weight commodities such as bananas and winter squash. For processed samples, apple juice and grape juice samples were 1 quart or 32 ounces.

♦ Butter

In 2013, PDP collected and analyzed 756 butter samples. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets, as well as proxy sites. The sample size for butter was 1 pound. Analysis was performed by the New York laboratory. Results for butter are shown in Appendix D.

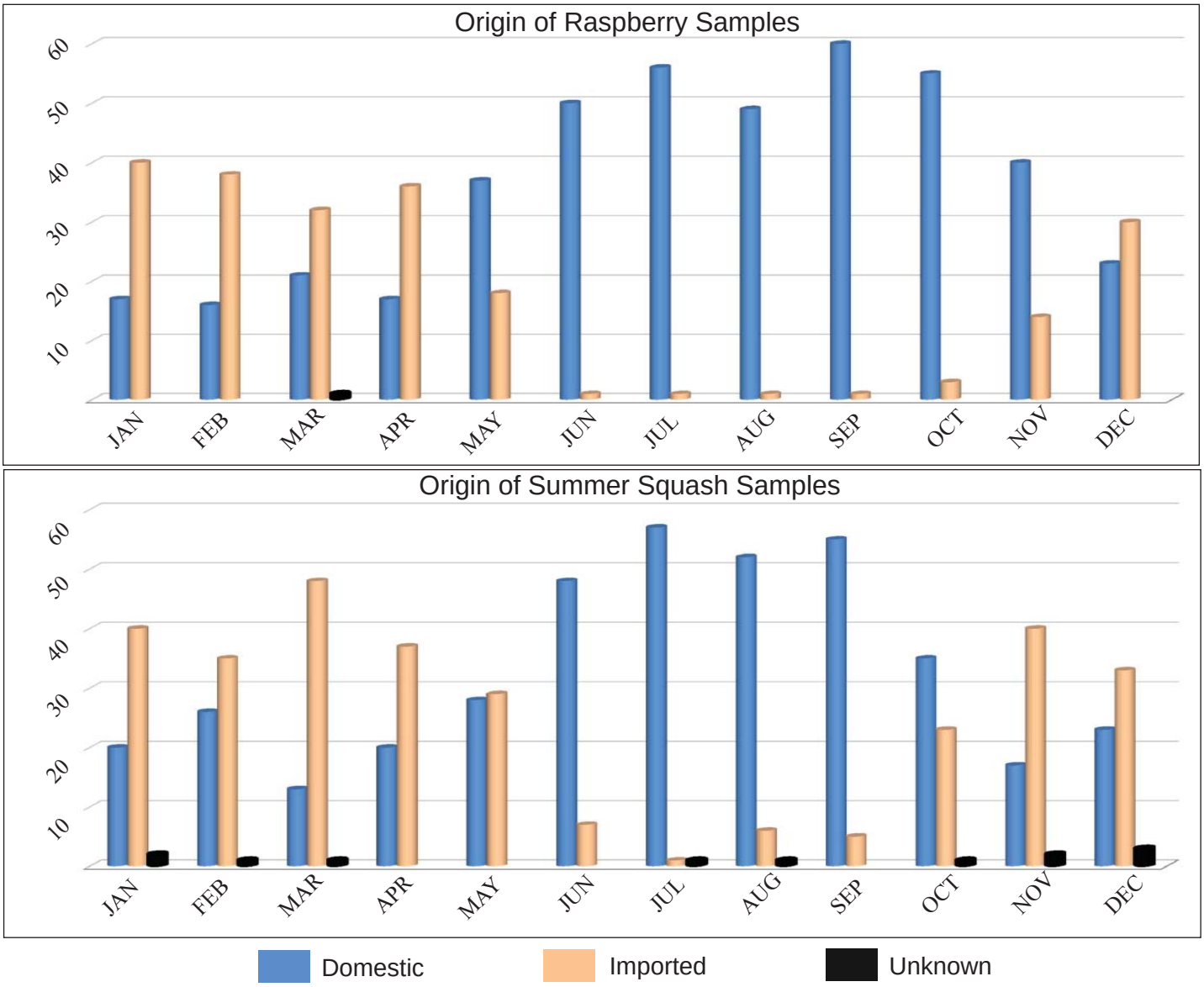


Figure 4. Origin of Selected Fresh Commodities: Raspberry and Summer Squash Samples. *Differences in origin (domestic vs. import) are illustrated by month.*

♦ Infant Formula

In 2013, PDP tested two types of infant formula (dairy-based and soy-based). Acceptable samples included concentrated liquid, powdered, and ready-to-eat; domestic or imported; organic or conventional products. The minimum weight was enough to reconstitute to 32 ounces. PDP collected and tested 177 dairy-based samples and 179 soy-based samples. For the 179 soy-based infant formula samples, 31 were concentrated liquid, 87 were powdered, and 61 were ready-to-eat. For the 177 dairy-based infant formula samples, 38 were concentrated liquid, 77 were powdered, and 62 were ready-to-eat. Samples were collected from routine PDP sampling sites, which included major distribution centers and terminal markets as well as proxy sites. Dairy-based samples were tested at the New York laboratory and soy-based samples at the California laboratory.

♦ Salmon

In 2013, EPA requested collection of salmon data to examine levels of pesticides present in salmon, whether from environmental contaminants or from pesticides used in aquaculture. Current, comprehensive data on pesticide residues on fish available to the U.S. consumer are largely unavailable. Sampling was designed to capture domestic and

imported products, including farm-raised and wild-caught salmon. PDP sampled salmon available at designated sampling locations regardless of country of origin, in order to capture results for salmon consumed by the American public.

PDP collected and analyzed 352 salmon samples in 2013. Each sample consisted of 2 pounds of fresh or frozen raw salmon. Proxy/retail sites provided 73.6 percent of salmon samples. Whole salmon samples were not collected; rather, only fillets, nuggets, strips, or steaks were obtained for testing. Both bones-in and no bones were acceptable sample types. To ensure salmon samples arrived at the laboratory in acceptable condition, samples were first frozen overnight and then shipped the following day by overnight air with ample frozen cold packs and insulating materials surrounding all sample units. Analysis was performed by the Washington laboratory.

Farm-raised or wild-caught, and domestic or imported salmon were collected on a random, as available basis. The majority of samples were wild-caught and imported. Approximately 32 percent of the samples were farm-raised and 57 percent were wild-caught. The remainder of the samples had no available source information. Approximately 27 percent of the samples originated in the United States, 73 percent were imported, and less than 1 percent was of unknown origin. Distribution of residues in salmon may be found in Appendix E.

♦ Drinking Water

Potable Groundwater

Approximately 15 percent of the U.S. population obtains its domestic water from private wells. Many of these wells are located in agricultural areas and may be susceptible to pesticide contamination, making it necessary to monitor these shallow groundwater wells to determine potential exposure to pesticides through water consumption for this segment of the population.

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

A total of 14 samples from 14 sites were collected and tested for the 2013 groundwater program. These included 11 private residence wells in 4 States (California, Minnesota, Washington, and Wisconsin). Three school/childcare facility wells were sampled in 2013 in two States (New York and California). Groundwater sampling and testing was discontinued in April 2013.

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.

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

When pesticides are detected in groundwater, the source is not always the immediate surface above, but can be where the water is entering, or recharging,

the aquifer, often miles away. Thus, if pesticides are being used in the recharge zone, they may be transported through the aquifer to the well. The transport times from recharge points (where surface water and precipitation enter the ground in 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. From the observation of the data in this report, it is often the pesticide metabolites that are detected and not the parent pesticide compound.

Municipal Drinking Water

In 2001, PDP began testing municipal waters drawing from surface water sources because surface water is more vulnerable to pesticides than municipal waters that draw from groundwater sources. Most municipal systems that draw water from groundwater obtain water from fairly deep (i.e., >200 feet) 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.

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.

During 2013, 100 total treated and untreated drinking water samples were collected from 8 community water systems in 6 States – Kentucky (1 site); Louisiana (1 site); Missouri (1 site); New Jersey (1 site); North Carolina (2 sites); and North Dakota (2 sites). The Louisiana site was sampled only once for surveillance purposes, checking for carbamate and organophosphate detections. Drinking water sampling and testing was discontinued in April 2013.

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

Nine State laboratories performed analyses for PDP. These laboratories are equipped with instrumentation capable of detecting residues at very low levels. Laboratory staff members receive intensive training and must demonstrate analytical proficiency on an ongoing basis. Program scientists continually test new technologies and develop new techniques to improve the levels of detection. Major changes in methodology 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 386 parent pesticides, metabolites, degradates, and/or isomers, plus 21 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, 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: bananas were peeled;

stem caps were removed from carrots; peaches were 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. Grape juice concentrates were reconstituted according to package directions while ready-to-serve apple juice and grape juice were simply mixed prior to removal of a portion for analysis. Ready-to-eat infant formula samples were mixed prior to removal of a portion for analysis. Concentrated liquid infant formula samples were diluted in a dry, clean container with reagent water, according to label directions, and mixed well to ensure a homogeneous mixture. Powdered infant formula samples were reconstituted in a dry, clean container with reagent water, according to label directions, and mixed well to ensure a homogeneous mixture. 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, testing laboratories used various Quick, Easy, Cheap, Rugged and Safe (QuEChERS[2])-based approaches. 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 2013, PDP laboratories analyzed baby food applesauce (379 samples) and baby food peas (378 samples) for a total of 207 parent pesticides, metabolites, degradates, and/or isomers, plus 13 environmental contaminants. The baby food applesauce samples were analyzed by the Florida laboratory, while baby food peas were analyzed by the Texas laboratory. Multiple containers of a given sample (of the same lot number) were combined, homogenized, and extracted using modifications of the QuEChERS method. Analyses were performed utilizing GC-mass selective detector, GC-MS/MS, and LC-MS/MS.

♦ Infant Formula

The California laboratory tested 179 soy-based infant formula samples and the New York laboratory tested 177 dairy-based infant formula samples for a total of 312 parent pesticides, metabolites, degradates, and/or isomers, plus 18 environmental contaminants. Analyses were performed using GC-MS/MS and LC-MS/MS.

♦ Butter

The New York laboratory tested 756 butter samples for 170 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.

[2] 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.

♦ Salmon

The Washington State laboratory analyzed 352 samples of salmon for 189 parent pesticides, metabolites, degradates, and/or isomers, plus 15 environmental contaminants. Upon arrival at the testing laboratory, the samples were visually examined for acceptability prior to extraction using a modification of the QuEChERS method followed by analysis via GC-MS/MS and LC-MS/MS.

♦ Potable Groundwater from Domestic and School/Childcare Facility Wells

In 2013, PDP conducted two groundwater testing studies: one for private domestic wells and one for school/childcare facilities. Onsite wells providing drinking water to school/childcare facilities are regulated by EPA's Office of Water under the Safe Drinking Water Act (SDWA) as non-transient, non-community water systems. SDWA requires testing for the 23 compounds that have established Maximum Contaminant Levels (MCLs). These compounds include only parent compounds – no metabolites are required to be tested. In both surface and groundwater, metabolites 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.

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 5 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 Minnesota and Montana 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 Solid Phase Extraction methods developed by the U.S. Geological Survey. 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, along with program-specific QA/QC requirements. The PDP SOPs provide uniform administrative and sampling procedures, as well as laboratory operations and data analyses guidelines. The program SOPs are revised annually to accommodate changes in the program and are aligned with International Organization for Standardization (ISO)[3] requirements. PDP State laboratories are accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA), an internationally recognized accrediting body.

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

Laboratory Technical Advisory Group and Quality Assurance Officers: A Technical Advisory Group, comprised of laboratory Technical Program Managers and Quality Assurance Officers, is responsible for annually reviewing program SOPs and addressing QA issues. For day-to-day QA oversight, PDP relies on the Quality Assurance Unit (QAU) at each participating facility. The QAU operates independently from the laboratory staff and is responsible for reviewing all data generated for PDP and for performing quarterly, internal program audits. Preliminary data review procedures are performed onsite by each laboratory's QAU. Final review procedures are performed by 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, infant formula, butter, and salmon, an amount of distilled water, equivalent to the natural moisture content of the commodity, is run through the entire analytical process to confirm glassware cleanliness and system integrity.

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

• Matrix Spike(s) - Prior to extraction, a portion of matrix blank is spiked with marker pesticides to determine the precision and accuracy of the analyst and instrument performance. Marker pesticides are compounds selected from different pesticide classes (e.g., organochlorines, organophosphates, carbamates, conazoles, imidazolinones, macrocyclic lactones, neonicotinyls, phenoxy acid herbicides, pyrethroids, strobilurins, sulfonyl urea herbicides, triazines, uracils), with physical and chemical characteristics representative of their corresponding pesticide class. Marker pesticides may be used to monitor recovery instead of spiking all pesticides. This use of marker pesticides optimizes the resources required to analyze the thousands of analyte/matrix combinations in the program while still allowing evaluation of daily recovery patterns. In addition, each laboratory must perform matrix spikes at least quarterly for each analyte/crop combination it reports. Some laboratories choose to rotate spikes of all compounds on a set-to-set basis or spike all compounds analyzed with each set, so that the amount of spike recovery data obtained actually exceeds the minimal requirements previously stated. During 2013, PDP laboratories quantitated a total of 72,355 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 2013, PDP laboratories quantitated a total of 23,388 process controls on 10,104 samples, with an overall mean recovery of 100 percent and an overall 18 % C.V. Of these process controls, 70 (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 2013, PDP laboratories that routinely analyze fruit and vegetables via MRMs participated in one FAPAS round for grapes that contained seven 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 2013, PDP laboratories received three multiresidue fruit and vegetable PT rounds (carrots, celery, and tomatoes), each consisting of three test samples. The carrot samples were fortified with 12 different compounds with imidacloprid spiked on 2 different samples at the same level to evaluate within and between laboratory variability. The celery samples were fortified with 12 different pesticides with fludioxonil spiked on 2 different samples. The tomato samples were fortified with 10 different pesticides with trifloxystrobin spiked on 2 different samples.

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 Washington, D.C., 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 5.

♦ 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 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

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 laboratories
- Fruit and vegetable samples prepared for consumption
- Detect residues at low levels
- Pesticide residue data generated
- Multi-tiered quality assurance 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 5. PDP Data Pathway. *An illustration of PDP data path from sample collection through laboratory analysis and reporting.*

Information Form (SIF) electronically on laptop or tablet 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 online 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 appendixes 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 2013, PDP conducted surveys on a variety of foods including fresh and processed fruit and vegetables, infant formula, butter, salmon, groundwater, and treated and untreated drinking water. Of the total 10,104 samples collected and analyzed, 8,526 were fresh and processed fruit and vegetable commodities, 356 were infant formula samples, 756 were butter samples, 352 were salmon samples, 14 were groundwater samples, and 100 were drinking water samples. Over 40 percent of the samples tested had no detectable pesticide residue. Appendix B tabulates the distribution of residues in fruit and vegetables for the complete 2013 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 limit of detections (LODs); and EPA tolerance levels. Appendixes C, D, E, F, and G, provide the distribution of residues for infant formula, butter, salmon, groundwater, and treated and untreated drinking water, respectively.

PDP laboratories tested 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. Appendix H tabulates the results for environmental contaminants across all commodities. Environmental contaminants are consolidated into a single appendix because they have no registered uses and are not applied to crops in the U.S. These compounds are subject to FDA Action Levels (ALs), rather than tolerances. Because environmental contaminants continue to persist in the environment, they are practically 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, infant formula, butter, and salmon, 70.8 percent of all samples were produced in the United States, 26.6 percent were imports, 1.9 percent were of mixed origin, and 0.7 percent were of unknown origin.

Appendix I shows the distribution of sample origin by State or country. Of all fresh and processed fruit and vegetables, infant formula, butter, and salmon samples collected and analyzed, approximately 35.8 percent (3,577 of 9,990) were grown, packed, and/or distributed in or from California. Groundwater and drinking water are excluded from Appendix I since the samples targeted rely on differential sampling frames and are not collected from routine PDP sample collection locations (i.e., terminal markets and large chain store distribution centers throughout the country). Treated and untreated drinking water samples are collected from community water treatment facilities. Groundwater samples are collected from private domestic wells and school/childcare facilities. Appendix J includes a comparison of residues for selected commodities with a significant import component.

Food monitoring data, together with dietary consumption surveys, are used by EPA to estimate dietary exposure to pesticides to ensure the safety of existing pesticide uses. EPA uses all results reported by PDP, including sample results reported as below the LOD and those above the tolerance. PDP laboratories are required to establish LODs and report any instrumental response below the LOD as a non-detect. LODs are established experimentally for each pesticide/commodity pair and are reported with each data set. The number of non-detects can be used in conjunction with percent crop treated data to determine what proportion of these values may be counted as zero towards the dietary exposure.

♦ Baby Food

Samples of baby food applesauce and peas were tested as processed products – contents of individual containers within a sample were combined then mixed until homogeneous, and then an analytical portion was removed to be tested by the laboratory's MRM. Results for baby food commodities are shown in Appendixes B, H, I, K, L, and M.

♦ Infant Formula

Both dairy-based and soy-based infant formulas were tested as processed products. For ready-to-eat samples, the sample was evenly mixed in order to obtain a homogeneous mixture prior to removing an analytical portion. Concentrated liquid infant formula samples were diluted in a dry, clean container with reagent water, according to label directions, and mixed well to ensure a homogeneous mixture. Powdered infant formula samples were reconstituted in a dry, clean container with reagent water, according to label directions, and mixed well to ensure a homogeneous mixture. Results for infant formula are contained in Appendixes C, H, I, and L.

♦ Import versus 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 2013. 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 peas (99.5 percent); cauliflower (96.8 percent); baby food applesauce (95.5 percent); peaches (94.0 percent); and celery (92.1 percent) with only minor import (0 percent, 2.8 percent, 4.0 percent, 5.6 percent, and 6.9 percent, respectively) and unknown origins (0.5 percent, 0.4 percent, 0.5 percent, 0.4 percent, and 1.0 percent, respectively). Some fresh and processed fruit and vegetables are entirely or almost entirely imported in origin such as bananas (100 percent); frozen raspberries (86.8 percent); and winter squash (85.0 percent) with only minor domestic (0 percent, 13.2 percent, and 15.0 percent, respectively) and unknown origins (0 percent for all 3 commodities). Other fresh commodities, such as raspberries and summer 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 nectarines, raspberries, and summer squash can be found in Appendix J. These sample sets were selected to compare data where residues are present in greater than 10 percent of the commodity and allow for the comparison of individual residues. These data also show that the residue profiles for domestic and imported crops are significantly different.

The nectarine data in Appendix J illustrate that in 2013 iprodione and tebuconazole were detected more frequently in imported samples than in domestic samples. Iprodione was detected in 96.0 percent of the samples from Chile and 0.6 percent of the U.S. samples, and tebuconazole was detected in 78.0 percent of the Chilean samples and 7.3 percent of the domestic samples. Lambda cyhalothrin, spinosad, acetamiprid, pyrimethanil, thiabendazole, and fenhexamid also were detected more frequently in imported samples than in domestic samples. Fludioxonil was detected more frequently in domestic samples than in imports. Fludioxonil was detected in 81.7 percent of U.S. samples and 8.3 percent of samples from Chile. Propiconazole, boscalid, pyraclostrobin, and indoxacarb also were detected more frequently in domestic samples than in imports. Methoxyfenozide was detected with relatively equal frequency in both the U.S. and Chilean nectarines.

The data for raspberries in Appendix J illustrate that in 2013 spinetoram was detected more frequently in U.S. samples than in samples from Mexico. Spinetoram was detected in 18.2 percent of domestic samples and 2.8 percent of the samples from Mexico. Bifenazate, boscalid, cypermethrin, cyprodinil, myclobutanil, pyraclostrobin, and spinosad were detected with relatively equal frequency in both the U.S. and Mexican raspberries.

The summer squash data in Appendix J illustrate that in 2013 endosulfan sulfate and imidacloprid were detected more frequently in imported samples than in domestic samples. Endosulfan sulfate was detected in 25.5 percent of the samples from Mexico and 11.9 percent of the United States samples and imidacloprid was detected in 25.2 percent of the Mexican samples and 8.4 percent of the domestic samples. Propamocarb hydrochloride was detected more frequently in domestic samples than in imports. Propamocarb hydrochloride was detected in 17.3 percent of U.S. samples and 2.7 percent of the samples from Mexico.

All pesticides detected, except thiabendazole in nectarines, were registered in the United States; 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. Over 40 percent of the samples tested had no detectable pesticide residue. 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. Over 99 percent of the products sampled through PDP had residues below the EPA tolerances. The reporting of residues present at levels below the established tolerance serves to ensure and verify the safety of the Nation's food supply.

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

By virtue of the MRMs employed, PDP provides novel data that can be used by EPA to evaluate exposure to multiple residues from the same commodity. The data are crucial for assessments that consider cumulative exposure to pesticides determined to have common mechanisms of toxicity. The distribution of multiple pesticides occurring in samples tested during 2013 is presented in Appendix L. These data indicate that 40.5 percent of all samples tested, excluding groundwater and treated and untreated drinking water, contained no detectable pesticides, 23.5 percent contained 1 pesticide, and 36.0 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 H, have been excluded from this count of pesticides.

One sample each of nectarines and peaches contained residues of 13 pesticides. None of the residues found on either the nectarine or peach sample exceeded the established tolerance. 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

Butter: The New York laboratory conducted testing for pesticide residues on 756 butter samples. Overall, nine different residues (including metabolites and isomers), representing eight pesticides, were detected in the butter samples (Appendix D and H). The most frequently detected residue was novaluron which was detected in 269 samples (37.2 percent). Trans permethrin was detected in 214 samples (28.3 percent), cis permethrin in 206 samples (27.2 percent), and cyhalothrin in 154 samples (20.4 percent). Bifenthrin was detected in 112 samples (14.8 percent), spinosad in 24 samples (3.2 percent), and piperonyl butoxide in 16 samples (2.1 percent). Chlorpropham was detected in two samples (0.3 percent). All residue detections were lower than the established tolerances, where tolerances were established. The environmental contaminant DDE p,p' was detected in 503 (66.5 percent) of the butter samples (Appendix H). All DDE p,p' detections were lower than FDA's established AL.

Salmon: The Washington laboratory conducted testing for pesticide residues on 352 salmon samples. Four residues (including metabolites and isomers), representing four pesticides were detected in the salmon samples (Appendix E and H). Azinphos methyl oxygen analog, carbendazim, and cypermethrin were each detected in one sample (Appendix E). All residue detections were lower than the established tolerances, where tolerances were established. The environmental contaminant DDT p,p' was detected in two of the salmon samples (Appendix H). Both residue detections were lower than FDA's established AL.

♦ Potable Groundwater

In 2013, 11 groundwater samples were collected from private domestic wells and 3 from school/childcare facilities. Overall, PDP detected 25 different residues (including metabolites), representing 17 pesticides, in the groundwater samples. Most of the detections were for herbicides or their metabolites. The samples with detectable residues came from seven different sites. Residue profiles are shown in Appendixes F and H.

In April 2012, EPA's Office of Water issued "Human Health Benchmarks for Pesticides (HHBPs)" available at www.epa.gov/pesticides/hhbp. These benchmarks are for 350 pesticides for which there are no MCLs or Health Advisories. While not an enforceable limit, these values provide context to safe levels of non-regulated pesticides. In 2013, none of the groundwater data exceeded any of the EPA HHBPs.

♦ Municipal Drinking Water

PDP analyzed 100 water samples (50 untreated samples and 50 finished samples) from community water systems. Appendix G and H show the concentration of detected residues in treated and untreated water. Thirty-six different residues (including metabolites), representing 27 pesticides, were detected in treated drinking water and 40 different residues (including metabolites), representing 31 pesticides, were detected in the untreated intake water. The majority of pesticides included in the PDP testing profiles were not detected; those compounds that were detected were primarily commonly used herbicides and their metabolites.

Water treatment technologies vary widely and may be based on the local water chemistry, targeted contaminants needing removal, and cost. In most cases, treated samples had fewer residues and lower concentrations than their untreated counterpart. In these cases, the effectiveness of water treatment in removing/reducing pesticide levels is seen. In a few cases, treated samples contained a trace of a residue that was not detected in the untreated sample or contained a residue at a higher concentration than the paired untreated sample. The data acquired to date indicate that in these cases the water treatment process removed matrix interferences. This provided a more efficient extraction or more sensitive measurement in the treated water. Depending on the treatment process employed and the chemical properties of the pesticide, an individual pesticide may be entirely, partially, or not removed during the treatment process.

Appendix G also lists the MCLs, HA values, Fresh Aquatic Organism (FAO) criteria and EPA's new HHBPs. During 2013, 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 2013, 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://water.epa.gov/drink/standardsriskmanagement.cfm.

♦ Environmental Contaminants

Environmental contaminants include pesticides whose uses have been canceled in the United States, but their residues persist in the environment, particularly in soil, where they may be taken up by plants. These data are also used to facilitate international trade. Residue results for environmental contaminants may be found in Appendix H.

DDT, DDD, and DDE: PDP screened samples for various metabolites of DDT including: DDT o,p'; DDT p,p'; DDD o,p'; DDD p,p'; DDE o,p'; and DDE p,p'. Use of DDT has been prohibited in the United States since 1972; however, due to its persistence in the environment, low level residues of DDT and its DDD and DDE metabolites were detected in some commodities tested. DDE p,p' was detected in butter (66.5 percent), carrots (23.5 percent), celery (17.2 percent), summer squash (2.7 percent), winter squash (2.1 percent), green beans (0.3 percent), and nectarines (0.2 percent). DDT p,p' was detected in carrots (9 percent), summer squash (2.2 percent), celery (1.3 percent), and salmon (0.6 percent). DDT o,p' was detected in carrots (6.2 percent) and summer squash (2.5 percent) and DDE o,p' was detected in carrots (0.3 percent). DDD o,p' was detected in summer squash (0.3 percent) and DDD p,p' was detected in celery (0.1 percent) and summer squash (0.1 percent). All residues detected were lower than established FDA ALs. Drinking water (treated and 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/delta); chlordane (total, 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 BHC beta, chlordane, dieldrin, endrin, and heptachlor epoxide were detected in some of the tested commodities.

For example, dieldrin was detected in 2.7 percent of summer squash samples, 1.3 percent of carrots samples, and 1.1 percent of winter squash samples, while chlordane (cis) and chlordane (trans) were detected in 0.4 percent and 0.3 percent, respectively, in summer squash, and 0.5 percent each in winter squash. Chlordane (total) was detected in 0.6 percent of carrot samples. Endrin was detected in 1.1 percent of winter squash samples, and BHC (beta) was detected in 0.3 percent of carrot samples. Heptachlor epoxide (total) was detected in 0.3 percent and 0.5 percent of summer squash and winter squash, respectively. Heptachlor epoxide (cis) was detected in 0.6 percent of carrot samples; no Action Level is established for heptachlor or its metabolites in carrots. There were no detections of any of these extraneous residues in drinking water (treated or untreated) or groundwater.

♦ 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's Food Safety and Inspection Service is responsible, FDA enforces tolerances for all imported foods 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's headquarters office. 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 Appendix B. Similarly, residues for which a tolerance is not established are noted with a "V" in Appendixes B, D, and H. 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 appendixes apply to 2013 and not to the current year. There may be instances where tolerances may have been recently set or revoked that would have an effect on whether a residue is violative.

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

Excluding water, a total of 317 samples with 350 pesticides were reported to FDA as Presumptive

Tolerance Violations. Pesticides exceeding the tolerance were detected in 0.23 percent (23 samples) of the total samples tested (9,990 samples). Of these 23 samples, 17 were imported (74 percent), and 6 were domestic (26 percent). The samples containing pesticides that exceeded established tolerances included: 1 sample of broccoli, 1 sample of celery, 4 samples of green beans, 11 nectarine samples, 1 sample of plums, 1 sample of fresh raspberries, and 4 samples of summer squash.

Residues with no established tolerance were found in 3.0 percent (301 samples) of the total samples tested (9,990 samples). Of these 301 samples, 151 were domestic (50.2 percent), 148 were imported (49.2 percent), and 2 were of unknown origin (0.6 percent). These samples included 286 fresh fruit and vegetable samples, 13 processed fruit/vegetable samples, and 2 butter samples. The 13 processed fruit/vegetable samples were baby food applesauce, grape juice, and frozen raspberries. There were 276 samples that contained 1 pesticide for which no tolerance was established, 24 samples with 2 pesticides for which no tolerance was established, and 1 sample with 3 pesticides for which no tolerance was established. Seven of the 301 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 M.

Appendix A

Commodity History

Appendix A identifies commodities sampled by the Pesticide Data Program (PDP) through December 2014. Updates to this list are posted on the PDP Web site at www.ams.usda.gov/pdp.

APPENDIX A. COMMODITY HISTORY
AS OF DECEMBER 2014

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
Apples	Oct-14	Ongoing
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	Mar-14
Blueberries (cultivated) [2]	Jan-07	Dec-08
Blueberries (cultivated) [2]	Jan-14	Dec-14
Broccoli	Oct-92	Dec-94
Broccoli	Jan-01	Dec-02
Broccoli	Oct-06	Sep-08
Broccoli	Jan-13	Dec-14
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	Dec-14
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	Dec-14
Cherries [3]	May-00	Aug-01
Cherries [2]	May-07	Sep-07
Cherries	Apr-14	Ongoing
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
Grapes (TSP)	Jul-03	Dec-03

Commodity	Start Date	End Date
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
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

Commodity	Start Date	End Date
Strawberries	Oct-14	Ongoing
Summer Squash	Oct-06	Sep-08
Summer Squash	Oct-12	Sep-14
Sweet Corn (on-the-cob)	Oct-08	Sep-10
Sweet Corn (on-the-cob)	Oct-14	Ongoing
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	Oct-14	Ongoing
Tomatoes, Cherry/Grape	Jan-11	Dec-12
Watermelon [8]	Oct-05	Sep-06
Watermelon	Apr-10	Sep-10
Watermelon	Jul-14	Ongoing
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 unavailability 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
Beans, Canned (4 varieties)	Oct-08	Sep-10
Beets, Canned	Jan-11	Dec-11
Blueberries (cultivated), Frozen [2]	Jan-07	Dec-08
Blueberries (cultivated), Frozen [2]	Jan-14	Dec-14
Cherries, Frozen [2]	Apr-14	Ongoing
Corn Syrup [3]	Jan-98	Jun-99
Grape Juice	Jan-98	Dec-99
Grape Juice	Jan-08	Dec-08
Grape Juice	Oct-13	Sep-14
Green Beans, Canned/Frozen [1]	Jan-96	Jun-98
Green Beans, Canned	Jan-03	Mar-04
Green Beans, Frozen	Apr-05	Dec-05
Green Beans, Canned/Frozen	Jan-14	Dec-14
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
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

Commodity	Start Date	End Date
Sweet Corn, Frozen [2]	Oct-14	Ongoing
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

Baby Food / Formula Products

Commodity	Start Date	End Date
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
Infant Formula, Dairy-based	Oct-13	Sep-14
Infant Formula, Soy-based	Oct-13	Sep-14

[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
Oats	Apr-14	Aug-14
Rice	Oct-00	Sep-02
Rice[1]	Oct-08	Sep-09
Rice	Apr-14	Aug-14
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	Type	Start Date	End Date
Fish [4]	Catfish	Apr-08	Jun-10
Fish	Salmon	Jul-13	Jun-14

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	Feb-13
16 Municipal Water Facilities in 13 States	Mar-10	Feb-13

[1] Includes sampling hiatus May-July 2009.

[2] Excludes sampling hiatus September - November 1996.

[3] Survey ended 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 appendix apply to 2013 and not to the current year. There may be instances where tolerances have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2013, 8,526 fruit and vegetable samples were analyzed, of which 7,161 were fresh product and 1,365 were processed product.

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.

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

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

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

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Abamectin (insecticide, acaricide)						
Celery	346	0			0.020 ^	0.10
Plums	507	0			0.020 ^	0.09
Raspberries (X-1)	351	1	0.3	0.095 ^	0.020 ^	0.01
Raspberries, Frozen	10	0			0.020 ^	0.01
Summer Squash	363	0			0.020 ^	0.01
Winter Squash	187	0			0.012 ^	0.01
TOTAL	**1,764**	**1**				
Acephate (insecticide)						
Apple Juice	379	0			0.030 ^	0.02
Baby Food - Applesauce	379	0			0.010 ^	0.02
Baby Food - Peas	378	0			0.030 ^	0.02
Bananas	708	0			0.075 ^	0.02
Broccoli	649	0			0.050 ^	0.02
Carrots	712	0			0.10 ^	0.02
Cauliflower	532	16	3	0.005 - 0.097	0.005 ^	2.0
Celery	708	156	22	0.003 - 0.45	0.002 - 0.010	10
Grape Juice	176	0			0.030 ^	0.02
Green Beans	378	98	25.9	0.030 - 2.6	0.030 ^	3.0
Mushrooms	532	0			0.030 ^	0.02
Nectarines	271	0			0.040 ^	0.02
Peaches	285	0			0.010 ^	0.02
Plums	507	0			0.010 ^	0.02
Raspberries	652	0			0.010 - 0.075	0.02
Raspberries, Frozen	53	0			0.010 - 0.075	0.02
Summer Squash (X-1)	709	2	0.3	0.011 - 0.039	0.010 - 0.030	0.02
Winter Squash	187	0			0.006 ^	0.02
TOTAL	**8,195**	**272**				
Acequinocyl (acaricide)						
Green Beans	347	0			0.20 ^	0.25
TOTAL	**347**	**0**				
Acetamiprid (insecticide)						
Apple Juice	379	57	15	0.003 - 0.019	0.003 ^	1.0
Baby Food - Applesauce	379	89	23.5	0.011 - 0.053	0.010 ^	1.0
Baby Food - Peas	378	0			0.020 ^	0.40
Bananas	708	0			0.002 ^	0.01
Broccoli	708	0			0.010 ^	1.20
Carrots	712	0			0.002 ^	0.01
Cauliflower	532	1	0.2	0.002 ^	0.001 ^	1.20
Celery	708	77	10.9	0.002 - 0.061	0.001 - 0.003	3.00
Grape Juice	148	0			0.003 ^	0.35
Green Beans	378	2	0.5	0.010 ^	0.002 ^	0.60
Mushrooms	532	0			0.003 ^	0.01
Nectarines	543	73	13.4	0.017 - 0.23	0.010 ^	1.20
Peaches	285	15	5.3	0.011 - 0.14	0.010 ^	1.20
Plums	507	5	1	0.003 - 0.012	0.003 ^	0.20
Raspberries	652	36	5.5	0.003 - 1.5	0.002 - 0.003	1.6
Raspberries, Frozen	53	0			0.002 - 0.003	1.6
Summer Squash	709	7	1	0.003 - 0.025	0.003 - 0.020	0.50
Winter Squash	187	4	2.1	0.003 - 0.006	0.002 ^	0.50
TOTAL	**8,498**	**366**				
Acetochlor (herbicide)						
Baby Food - Peas	378	0			0.020 ^	0.05
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.005 ^	NT
TOTAL	**932**	**0**				
Acibenzolar S methyl (plant activator)						
Apple Juice	379	0			0.020 ^	0.05
Cauliflower	532	0			0.004 ^	1.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Celery	362	0			0.012 ^	0.25
Green Beans	378	0			0.020 ^	NT
Mushrooms	503	0			0.020 ^	NT
Summer Squash	346	0			0.10 ^	2.0
TOTAL	**2,500**	**0**				
Acrinathrin (insecticide, acaricide)						
Apple Juice	379	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
TOTAL	**555**	**0**				
Alachlor (herbicide)						
Cauliflower	532	0			0.005 ^	NT
Celery	708	0			0.005 ^	NT
Green Beans	378	0			0.020 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**2,849**	**0**				
Aldicarb (insecticide)						
Apple Juice	114	0			0.010 - 0.020	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.020 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 - 0.003	NT
Celery	708	0			0.003 - 0.010	NT
Mushrooms	266	0			0.010 - 0.030	NT
Nectarines	543	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.020	NT
Raspberries, Frozen	53	0			0.010 - 0.020	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**6,005**	**0**				
Aldicarb sulfone (metabolite of Aldicarb)						
Apple Juice	379	0			0.003 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.025 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	516	0			0.010 - 0.020	NT
Celery	708	0			0.003 - 0.010	NT
Grape Juice	176	0			0.005 ^	NT
Mushrooms	532	0			0.003 - 0.005	NT
Nectarines	543	0			0.050 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.025	NT
Raspberries, Frozen	53	0			0.010 - 0.025	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**6,696**	**0**				
Aldicarb sulfoxide (metabolite of Aldicarb)						
Apple Juice	379	0			0.003 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.050 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.006 ^	NT
Celery	708	0			0.002 - 0.010	NT
Grape Juice	176	0			0.005 ^	NT
Mushrooms	532	0			0.003 - 0.005	NT
Nectarines	543	0			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
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.050	NT
Raspberries, Frozen	53	0			0.010 - 0.050	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**6,712**	**0**				
Allethrin (insecticide)						
Apple Juice	346	0			0.025 ^	EX
Baby Food - Applesauce	357	0			0.020 ^	EX
Baby Food - Peas	378	0			0.10 ^	EX
Bananas	708	0			0.080 ^	EX
Broccoli	707	0			0.020 ^	EX
Carrots	712	0			0.008 ^	EX
Celery	346	0			0.020 ^	EX
Green Beans	378	0			0.050 ^	EX
Mushrooms	502	0			0.025 ^	EX
Nectarines	543	0			0.008 ^	EX
Peaches	285	0			0.020 ^	EX
Plums	507	0			0.020 ^	EX
Raspberries	652	0			0.020 - 0.080	EX
Raspberries, Frozen	53	0			0.020 - 0.080	EX
Summer Squash	709	0			0.020 - 0.10	EX
Winter Squash	187	0			0.012 ^	EX
TOTAL	**7,370**	**0**				
Ametoctradin (fungicide)						
Celery	346	0			0.003 ^	40.0
Green Beans	378	0			0.001 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	709	5	0.7	0.007 - 0.034	0.003 - 0.005	3.0
TOTAL	**2,301**	**5**				
Ametryn (herbicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.005 ^	NT
TOTAL	**2,428**	**0**				
Atrazine (herbicide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.001 - 0.005	0.25
Grape Juice	148	0			0.002 ^	NT
Mushrooms	532	0			0.002 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,066**	**0**				
Avermectin (insecticide, acaricide)						
Carrots	712	0			0.060 ^	0.01
Nectarines	543	0			0.050 ^	0.09
TOTAL	**1,255**	**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
Azinphos (insecticide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Azinphos methyl (insecticide)						
Apple Juice	379	0			0.003 ^	1.5
Baby Food - Applesauce	358	0			0.004 ^	1.5
Baby Food - Peas	378	0			0.090 ^	NT
Bananas	708	0			0.004 ^	NT
Carrots	712	0			0.009 ^	NT
Cauliflower	532	0			0.012 ^	NT
Celery	708	0			0.005 - 0.012	NT
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	0			0.020 ^	NT
Mushrooms	532	0			0.003 - 0.010	NT
Nectarines (V-3)	543	3	0.6	0.008 - 0.080	0.005 ^	NT
Peaches	285	0			0.020 ^	2.0
Plums	507	0			0.005 ^	2.0
Raspberries	652	0			0.004 - 0.005	2.0
Raspberries, Frozen	53	1	1.9	0.008 ^	0.004 - 0.005	2.0
Summer Squash	709	0			0.005 - 0.090	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**7,797**	**4**				
Azinphos methyl oxygen analog (metabolite of Azinphos methyl)						
Apple Juice	379	0			0.010 ^	1.5
Baby Food - Peas	378	0			0.015 ^	NT
Bananas	708	0			0.005 ^	NT
Carrots	712	0			0.008 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	0			0.003 ^	NT
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.001 ^	NT
Plums	507	0			0.010 ^	2.0
Raspberries	652	0			0.005 - 0.010	2.0
Raspberries, Frozen	53	0			0.005 - 0.010	2.0
Summer Squash	709	0			0.010 - 0.015	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**6,260**	**0**				
Azoxystrobin (fungicide)						
Apple Juice	379	0			0.003 ^	NT
Baby Food - Applesauce	379	0			0.002 ^	NT
Baby Food - Peas	378	0			0.005 ^	0.5
Bananas	708	151	21.3	0.005 - 0.077	0.005 ^	2.0
Broccoli	708	75	10.6	0.002 - 0.46	0.002 ^	3.0
Carrots	712	55	7.7	0.010 - 0.031	0.006 ^	0.5
Cauliflower	532	2	0.4	0.002 ^	0.001 ^	3.0
Celery	708	123	17.4	0.002 - 0.42	0.001 - 0.003	30.0
Grape Juice	148	0			0.003 ^	2.0
Green Beans	378	116	30.7	0.001 - 0.076	0.001 ^	3.0
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	19	3.5	0.002 - 0.055	0.001 ^	1.5
Peaches	285	17	6	0.002 - 0.13	0.002 ^	1.5
Plums	507	3	0.6	0.006 - 0.018	0.003 ^	1.5
Raspberries	652	52	8	0.003 - 0.34	0.003 - 0.005	5.0
Raspberries, Frozen	53	4	7.5	0.015 - 0.20	0.003 - 0.005	5.0
Summer Squash	709	11	1.6	0.004 - 0.050	0.003 - 0.005	0.3
Winter Squash	187	2	1.1	0.003 ^	0.002 ^	0.3
TOTAL	**8,498**	**630**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Bendiocarb (insecticide)						
Apple Juice	379	0			0.003 ^	SU
Baby Food - Applesauce	379	0			0.005 ^	SU
Baby Food - Peas	378	0			0.015 ^	SU
Bananas	708	0			0.009 ^	SU
Broccoli	708	0			0.005 ^	SU
Carrots	712	0			0.002 ^	SU
Cauliflower	532	0			0.005 - 0.015	SU
Celery	708	0			0.005 - 0.015	SU
Grape Juice	176	0			0.003 ^	SU
Green Beans	378	0			0.015 ^	SU
Mushrooms	532	0			0.003 ^	SU
Nectarines	543	0			0.001 ^	SU
Peaches	285	0			0.005 ^	SU
Plums	507	0			0.005 ^	SU
Raspberries	652	0			0.005 - 0.009	SU
Raspberries, Frozen	53	0			0.005 - 0.009	SU
Summer Squash	709	0			0.005 - 0.015	SU
Winter Squash	187	0			0.003 ^	SU
TOTAL	**8,526**	**0**				
Benfluralin (herbicide)						
Apple Juice	379	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**2,664**	**0**				
Benoxacor (herbicide safener)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Peas	378	0			0.030 ^	0.01
Bananas	708	0			0.012 ^	NT
Carrots	712	0			0.015 ^	0.01
Cauliflower	532	0			0.001 ^	0.01
Celery	708	0			0.001 - 0.010	0.01
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	0			0.020 ^	0.01
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.012	0.01
Raspberries, Frozen	53	0			0.010 - 0.012	0.01
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	0.01
TOTAL	**6,808**	**0**				
Bensulide (herbicide)						
Apple Juice	379	0			0.004 ^	NT
Carrots	676	0			0.006 - 0.020	0.10
Celery	346	0			0.003 ^	0.15
Grape Juice	176	0			0.004 ^	NT
Green Beans	378	0			0.015 ^	NT
Mushrooms	532	0			0.004 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	709	0			0.003 - 0.005	0.15
Winter Squash	187	0			0.002 ^	0.15
TOTAL	**4,251**	**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
Bensulide oxygen analog (herbicide metabolite)						
Apple Juice	379	0			0.002 ^	NT
Carrots	712	0			0.002 ^	0.10
Grape Juice	176	0			0.002 ^	NT
Green Beans	378	0			0.002 ^	NT
Mushrooms	532	0			0.002 ^	NT
Summer Squash	346	0			0.005 ^	0.15
TOTAL	**2,523**	**0**				
Bentazon (herbicide)						
Baby Food - Peas	378	0			0.50 ^	3.0
Bananas	708	0			0.015 ^	NT
Green Beans	378	0			0.10 ^	0.5
Raspberries	301	0			0.015 ^	NT
Raspberries, Frozen	43	0			0.015 ^	NT
TOTAL	**1,808**	**0**				
Benthiavalicarb isopropyl (fungicide)						
Bananas	708	0			0.005 ^	NT
Raspberries	301	0			0.005 ^	NT
Raspberries, Frozen	43	0			0.005 ^	NT
TOTAL	**1,052**	**0**				
Bifenazate (acaricide)						
Celery	346	0			0.005 ^	NT
Plums	507	3	0.6	0.007 - 0.022	0.005 ^	0.20
Raspberries	351	105	29.9	0.005 - 1.5	0.005 ^	5.0
Raspberries, Frozen	10	0			0.005 ^	5.0
Summer Squash	363	0			0.005 ^	0.75
Winter Squash	187	0			0.003 ^	0.75
TOTAL	**1,764**	**108**				
Bifenox (herbicide)						
Celery	288	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,519**	**0**				
Bifenthrin (insecticide)						
Apple Juice	379	0			0.005 ^	0.5
Baby Food - Applesauce	379	10	2.6	0.002 ^	0.001 ^	0.5
Baby Food - Peas	378	0			0.020 ^	0.05
Bananas	708	0			0.008 ^	0.1
Broccoli	707	5	0.7	0.007 - 0.078	0.005 ^	0.6
Carrots	712	0			0.001 ^	0.10
Cauliflower	532	0			0.002 ^	0.6
Celery	708	11	1.6	0.003 - 0.062	0.002 - 0.010	3.0
Grape Juice	176	0			0.005 ^	0.2
Green Beans	378	40	10.6	0.040 - 0.13	0.040 ^	0.6
Mushrooms	532	0			0.005 ^	0.05
Nectarines	543	1	0.2	0.010 ^	0.001 ^	0.5
Peaches	285	3	1.1	0.084 - 0.15	0.005 ^	0.5
Plums	507	0			0.010 ^	0.05
Raspberries	652	23	3.5	0.009 - 0.72	0.008 - 0.010	1.0
Raspberries, Frozen	53	7	13.2	0.017 - 0.20	0.008 - 0.010	1.0
Summer Squash	709	18	2.5	0.012 - 0.10	0.010 - 0.020	0.4
Winter Squash	187	22	11.8	0.005 - 0.072	0.003 ^	0.4
TOTAL	**8,525**	**140**				
Bitertanol (fungicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.040 ^	NT
Peaches	285	0			0.010 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	507	0			0.040 ^	NT
Raspberries	351	0			0.040 ^	NT
Raspberries, Frozen	10	0			0.040 ^	NT
Summer Squash	363	0			0.040 ^	NT
TOTAL	**2,949**	**0**				
Boscalid (fungicide)						
Apple Juice	379	2	0.5	0.003 - 0.006	0.003 ^	3.0
Baby Food - Applesauce	379	12	3.2	0.011 - 0.035	0.010 ^	3.0
Baby Food - Peas	378	0			0.010 ^	0.6
Bananas	708	1	0.1	0.016 ^	0.013 ^	0.40
Broccoli	708	11	1.6	0.021 - 0.39	0.010 ^	3.0
Carrots	712	164	23	0.025 - 0.17	0.015 - 0.050	1.0
Celery	693	62	8.9	0.006 - 0.10	0.005 - 0.020	45
Grape Juice	176	14	8	0.006 - 0.079	0.003 ^	3.5
Green Beans	378	35	9.3	0.006 - 0.87	0.005 ^	1.6
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	82	15.1	0.002 - 0.19	0.001 ^	3.5
Peaches	285	105	36.8	0.010 - 0.35	0.010 ^	3.5
Plums	507	9	1.8	0.005 - 0.026	0.005 ^	3.5
Raspberries	652	160	24.5	0.005 - 3.0	0.005 - 0.013	6.0
Raspberries, Frozen	53	6	11.3	0.021 - 0.63	0.005 - 0.013	6.0
Summer Squash	709	10	1.4	0.005 - 0.075	0.005 - 0.015	1.6
Winter Squash	187	4	2.1	0.005 ^	0.003 ^	1.6
TOTAL	**7,979**	**677**				
Bromacil (herbicide)						
Apple Juice	379	0			0.003 ^	NT
Bananas	708	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.003 ^	NT
Mushrooms	532	0			0.003 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	156	0			0.009 ^	NT
TOTAL	**3,872**	**0**				
Bromopropylate (acaricide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Nectarines	543	0			0.001 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**3,491**	**0**				
Bromuconazole (fungicide)						
Celery	346	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**1,577**	**0**				
Bupirimate (fungicide)						
Apple Juice	379	0			0.001 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.002 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.040 ^	NT
Grape Juice	176	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
Nectarines	543	0			0.003 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.040 ^	NT
Raspberries	652	0			0.002 - 0.040	NT
Raspberries, Frozen	53	0			0.002 - 0.040	NT
Summer Squash	363	0			0.040 ^	NT
TOTAL	**5,098**	**0**				
Buprofezin (insecticide)						
Apple Juice	379	0			0.001 ^	3.0
Baby Food - Applesauce	379	0			0.010 ^	3.0
Bananas	708	46	6.5	0.001 - 0.097	0.001 ^	0.20
Broccoli	708	8	1.1	0.017 - 0.12	0.010 ^	12.0
Cauliflower	532	0			0.001 ^	12.0
Celery	708	14	2	0.002 - 0.021	0.001 - 0.005	35
Grape Juice	176	0			0.001 ^	2.5
Green Beans	378	1	0.3	0.002 ^	0.001 ^	0.02
Mushrooms	532	0			0.001 ^	NT
Nectarines	543	25	4.6	0.002 - 0.068	0.001 ^	1.9
Peaches	285	16	5.6	0.011 - 0.030	0.010 ^	9.0
Plums	507	2	0.4	0.006 - 0.028	0.005 ^	1.9
Raspberries (V-1)	652	1	0.2	0.002 ^	0.001 - 0.005	NT
Raspberries, Frozen	53	0			0.001 - 0.005	NT
Summer Squash	709	1	0.1	0.006 ^	0.005 ^	0.50
Winter Squash	187	0			0.003 ^	0.50
TOTAL	**7,436**	**114**				
Butocarboxim (insecticide, acaricide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Nectarines	543	0			0.001 ^	NT
Peaches	285	0			0.010 ^	NT
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**2,967**	**0**				
Butocarboxim sulfone (metabolite of Butocarboxim)						
Bananas	708	0			0.021 ^	NT
Raspberries	301	0			0.021 ^	NT
Raspberries, Frozen	43	0			0.021 ^	NT
TOTAL	**1,052**	**0**				
Butocarboxim sulfoxide (metabolite of Butocarboxim)						
Bananas	708	0			0.006 ^	NT
Nectarines	543	0			0.030 ^	NT
Raspberries	301	0			0.006 ^	NT
Raspberries, Frozen	43	0			0.006 ^	NT
TOTAL	**1,595**	**0**				
Cadusafos (insecticide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,577**	**0**				
Captan (fungicide) (parent of THPI)						
Baby Food - Applesauce	291	0			0.004 - 0.020	25.0
Bananas	708	0			0.19 ^	NT
Carrots	712	0			0.20 ^	0.05
Nectarines	543	4	0.7	0.15 - 0.76	0.050 ^	25.0
Peaches	285	39	13.7	0.027 - 1.2	0.020 ^	15.0

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
Raspberries	301	3	1	0.25 - 1.0	0.19 ^	25.0
Raspberries, Frozen	43	4	9.3	0.27 - 2.2	0.19 ^	25.0
TOTAL	**2,883**	**50**				
Carbaryl (insecticide)						
Apple Juice	379	8	2.1	0.004 - 0.041	0.003 ^	12
Baby Food - Applesauce	379	1	0.3	0.021 ^	0.010 ^	12
Baby Food - Peas	378	0			0.020 ^	10
Bananas	708	0			0.005 ^	5.0
Broccoli	708	0			0.010 ^	10
Carrots	712	0			0.002 ^	2.0
Cauliflower	532	0			0.001 ^	10
Celery	708	6	0.8	0.008 - 0.67	0.001 - 0.005	3.0
Grape Juice	176	45	25.6	0.003 - 0.026	0.003 ^	10
Green Beans	378	1	0.3	0.027 ^	0.002 ^	10
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	4	0.7	0.016 - 0.71	0.004 ^	10
Peaches	285	4	1.4	0.010 - 1.3	0.010 ^	10
Plums	507	1	0.2	0.007 ^	0.005 ^	10
Raspberries	652	0			0.005 ^	12.0
Raspberries, Frozen	53	6	11.3	0.007 - 0.052	0.005 ^	12.0
Summer Squash	709	2	0.3	0.006 ^	0.005 - 0.020	3.0
Winter Squash	187	0			0.003 ^	3.0
TOTAL	**8,526**	**78**				
Carbendazim - MBC (fungicide) (metabolite of Benomyl and Thiophanate Methyl)						
Apple Juice	379	106	28	0.001 - 0.035	0.001 ^	2.0
Baby Food - Applesauce	379	38	10	0.010 - 0.058	0.010 ^	2.0
Bananas	708	0			0.005 ^	2.0
Broccoli (V-1)	708	1	0.1	0.049 ^	0.010 ^	NT
Carrots	712	0			0.003 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery (V-1)	708	1	0.1	0.002 ^	0.001 - 0.005	NT
Grape Juice	176	5	2.8	0.002 - 0.004	0.001 ^	5.0
Mushrooms (V-5)	532	5	0.9	0.011 - 0.56	0.001 ^	NT
Nectarines (V-2)	543	2	0.4	0.005 - 0.026	0.003 ^	NT
Peaches	285	13	4.6	0.016 - 0.12	0.010 ^	3.0
Plums	507	1	0.2	0.010 ^	0.005 ^	0.5
Raspberries (V-3)	652	3	0.5	0.007 - 0.015	0.005 ^	NT
Raspberries, Frozen (V-8)	53	8	15.1	0.006 - 0.22	0.005 ^	NT
Summer Squash	363	9	2.5	0.009 - 0.042	0.005 ^	1.0
Winter Squash	187	5	2.7	0.003 - 0.045	0.002 ^	1.0
TOTAL	**7,424**	**197**				
Carbofuran (insecticide) (parent of 3-Hydroxycarbofuran)						
Apple Juice	379	0			0.003 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Baby Food - Peas	378	0			0.005 ^	NT
Bananas	708	0			0.006 ^	0.1
Broccoli (V-1)	708	1	0.1	0.026 ^	0.010 ^	NT
Carrots	712	0			0.001 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.005	NT
Grape Juice	176	0			0.003 ^	0.4
Green Beans (V-2)	378	2	0.5	0.002 ^	0.001 ^	NT
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	0			0.001 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.006	NT
Raspberries, Frozen	53	0			0.005 - 0.006	NT
Summer Squash	709	0			0.005 ^	0.8
Winter Squash	187	0			0.003 ^	0.8
TOTAL	**8,526**	**3**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Carbophenothion (insecticide)						
Cauliflower	532	0			0.002 - 0.008	NT
Celery	708	0			0.002 - 0.010	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**2,658**	**0**				
Carbophenothion methyl (insecticide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Carboxin (fungicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Carfentrazone (herbicide)						
Apple Juice	379	4	1.1	0.006 - 0.013	0.005 ^	0.10
Baby Food - Applesauce	379	0			0.001 ^	0.10
Baby Food - Peas	378	0			0.005 ^	0.10
Bananas	708	0			0.016 ^	0.20
Broccoli	707	0			0.005 ^	0.10
Carrots	712	0			0.002 ^	0.10
Cauliflower	532	0			0.005 ^	0.10
Celery	693	0			0.003 - 0.005	0.10
Grape Juice	176	0			0.005 ^	0.10
Green Beans	378	0			0.005 ^	0.10
Mushrooms	503	0			0.005 ^	NT
Nectarines	543	0			0.002 ^	0.10
Peaches	285	0			0.005 ^	0.10
Plums	507	0			0.003 ^	0.10
Raspberries	652	0			0.003 - 0.016	0.10
Raspberries, Frozen	53	0			0.003 - 0.016	0.10
Summer Squash	709	0			0.003 - 0.005	0.10
Winter Squash	187	0			0.002 ^	0.10
TOTAL	**8,481**	**4**				
Chlorantraniliprole (insecticide)						
Apple Juice	379	1	0.3	0.015 ^	0.010 ^	1.2
Baby Food - Applesauce	379	0			0.020 ^	1.2
Baby Food - Peas	378	0			0.005 ^	2.0
Broccoli	708	9	1.3	0.021 - 0.19	0.020 ^	4.0
Carrots	712	0			0.005 ^	0.30
Cauliflower	532	2	0.4	0.003 - 0.018	0.002 ^	4.0
Celery	708	203	28.7	0.003 - 0.29	0.002 - 0.010	13
Grape Juice	176	0			0.010 ^	2.5
Green Beans	378	46	12.2	0.001 - 0.020	0.001 ^	2.0
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	7	1.3	0.083 ^	0.050 ^	4.0
Peaches	285	72	25.3	0.021 - 0.15	0.020 ^	4.0
Plums	507	4	0.8	0.010 - 0.019	0.010 ^	4.0
Raspberries	351	2	0.6	0.044 - 0.054	0.010 ^	1.8
Raspberries, Frozen	10	0			0.010 ^	1.8
Summer Squash	709	2	0.3	0.006 ^	0.005 - 0.010	0.5
Winter Squash	187	1	0.5	0.010 ^	0.006 ^	0.5
TOTAL	**7,474**	**349**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Chlorethoxyfos (insecticide)						
Celery	346	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.009 ^	NT
TOTAL	**1,764**	**0**				
Chlorfenapyr (insecticide)						
Apple Juice	379	0			0.015 ^	0.01
Baby Food - Applesauce	357	0			0.005 ^	0.01
Baby Food - Peas	378	0			0.050 ^	0.01
Bananas	708	0			0.040 ^	0.01
Broccoli	707	0			0.005 ^	0.01
Carrots	712	0			0.10 ^	0.01
Cauliflower	532	0			0.002 ^	0.01
Celery	362	0			0.002 ^	0.01
Grape Juice	176	0			0.015 ^	0.01
Green Beans	378	0			0.025 ^	0.01
Mushrooms	532	0			0.015 ^	0.01
Nectarines	543	0			0.025 ^	0.01
Peaches	285	0			0.005 ^	0.01
Raspberries	301	0			0.040 ^	0.01
Raspberries, Frozen	43	0			0.040 ^	0.01
Summer Squash	346	0			0.050 ^	0.01
TOTAL	**6,739**	**0**				
Chlorfenvinphos (insecticide)						
Cauliflower	532	0			0.004 ^	NT
Celery	708	0			0.004 - 0.010	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,658**	**0**				
Chlorobenzilate (acaricide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,577**	**0**				
Chloroneb (fungicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Chlorothalonil (fungicide)						
Apple Juice	313	0			0.020 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Mushrooms	532	1	0.2	0.026 ^	0.020 ^	1.0
Peaches	285	2	0.7	0.024 - 0.088	0.005 ^	0.5
Plums	507	2	0.4	0.011 - 0.015	0.010 ^	0.2
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
TOTAL	**2,355**	**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
Chlorpropham (herbicide, growth regulator)						
Apple Juice	379	0			0.020 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Bananas	708	0			0.020 ^	NT
Broccoli (V-3)	707	3	0.4	0.008 - 0.013	0.005 ^	NT
Cauliflower (V-9)	532	9	1.7	0.002 - 0.007	0.001 ^	NT
Celery (V-4)	708	4	0.6	0.002 - 0.009	0.001 - 0.005	NT
Grape Juice	176	0			0.020 ^	NT
Green Beans	378	0			0.020 ^	NT
Mushrooms	532	0			0.020 ^	NT
Nectarines	543	0			0.060 ^	NT
Peaches (V-3)	285	3	1.1	0.011 - 0.013	0.005 ^	NT
Plums (V-1)	507	1	0.2	0.006 ^	0.005 ^	NT
Raspberries (V-7)	652	7	1.1	0.006 - 0.13	0.005 - 0.020	NT
Raspberries, Frozen	53	0			0.005 - 0.020	NT
Summer Squash	709	0			0.005 - 0.20	NT
Winter Squash (V-2)	187	2	1.1	0.010 ^	0.006 ^	NT
TOTAL	**7,413**	**29**				
Chlorpyrifos (insecticide)						
Apple Juice	379	0			0.005 ^	0.01
Baby Food - Applesauce	379	5	1.3	0.002 ^	0.001 ^	0.01
Baby Food - Peas	378	0			0.15 ^	0.05
Bananas	708	0			0.005 ^	0.1
Broccoli	707	5	0.7	0.006 - 0.034	0.005 ^	1.0
Carrots	712	3	0.4	0.010 - 0.046	0.006 ^	0.1
Cauliflower	532	2	0.4	0.002 - 0.010	0.001 ^	1.0
Celery	708	5	0.7	0.002 - 0.004	0.001 - 0.010	0.1
Grape Juice	176	0			0.005 ^	0.01
Green Beans	378	1	0.3	0.059 ^	0.035 ^	0.05
Mushrooms	532	0			0.005 ^	0.1
Nectarines	543	21	3.9	0.005 - 0.036	0.003 ^	0.05
Peaches	285	4	1.4	0.005 - 0.008	0.005 ^	0.05
Plums	507	1	0.2	0.011 ^	0.010 ^	0.05
Raspberries	652	1	0.2	0.031 ^	0.005 - 0.010	0.1
Raspberries, Frozen	53	4	7.5	0.006 - 0.019	0.005 - 0.010	0.1
Summer Squash	709	1	0.1	0.032 ^	0.010 - 0.075	0.1
Winter Squash	187	0			0.006 ^	0.1
TOTAL	**8,525**	**53**				
Chlorpyrifos oxygen analog (metabolite of Chlorpyrifos)						
Apple Juice	379	0			0.002 ^	0.01
Baby Food - Peas	378	0			0.005 ^	0.05
Bananas	708	0			0.009 ^	0.1
Carrots	712	0			0.001 ^	0.1
Cauliflower	532	0			0.001 - 0.003	1.0
Celery	708	0			0.001 - 0.010	0.1
Grape Juice	176	0			0.002 ^	0.01
Green Beans	378	0			0.001 ^	0.05
Mushrooms	532	0			0.002 ^	0.1
Nectarines	543	0			0.001 ^	0.05
Plums	507	0			0.010 ^	0.05
Raspberries	652	0			0.009 - 0.010	0.1
Raspberries, Frozen	53	0			0.009 - 0.010	0.1
Summer Squash	709	0			0.005 - 0.010	0.1
Winter Squash	187	0			0.006 ^	0.1
TOTAL	**7,154**	**0**				
Chlozolinate (fungicide)						
Celery	288	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	290	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	303	0			0.010 ^	NT
TOTAL	**1,398**	**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
Clethodim (herbicide)						
Baby Food - Peas	356	0			0.20 ^	3.5
Carrots	712	0			0.001 ^	1.0
Cauliflower	532	0			0.002 ^	3.0
Celery	592	0			0.002 - 0.040	0.60
Green Beans	378	0			0.40 ^	3.5
Nectarines	543	0			0.001 ^	NT
Plums	416	0			0.040 ^	NT
Raspberries	264	0			0.040 ^	0.30
Raspberries, Frozen	7	0			0.040 ^	0.30
Summer Squash	543	0			0.040 - 0.20	0.50
TOTAL	**4,343**	**0**				
Clethodim sulfone (metabolite of Clethodim)						
Celery	346	0			0.005 ^	0.60
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	0.30
Raspberries, Frozen	10	0			0.005 ^	0.30
Summer Squash	363	0			0.005 ^	0.50
TOTAL	**1,577**	**0**				
Clethodim sulfoxide (metabolite of Clethodim)						
Celery	230	0			0.005 ^	0.60
Plums	416	0			0.005 ^	NT
Raspberries	264	0			0.005 ^	0.30
Raspberries, Frozen	7	0			0.005 ^	0.30
Summer Squash	273	0			0.005 ^	0.50
TOTAL	**1,190**	**0**				
Clofentezine (insecticide)						
Celery	346	0			0.020 ^	NT
Nectarines	542	11	2	0.002 - 0.052	0.001 ^	1.0
Plums	507	0			0.020 ^	NT
Raspberries	351	0			0.020 ^	NT
Raspberries, Frozen	10	0			0.020 ^	NT
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**2,306**	**11**				
Clomazone (herbicide)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Applesauce	379	0			0.001 - 0.005	NT
Baby Food - Peas	378	0			0.050 ^	0.05
Bananas	708	0			0.070 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.005 ^	0.05
Mushrooms	532	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.070	NT
Raspberries, Frozen	53	0			0.003 - 0.070	NT
Summer Squash	709	1	0.1	0.006 ^	0.003 - 0.050	0.1
Winter Squash	187	0			0.003 ^	0.1
TOTAL	**7,270**	**1**				
Clothianidin (insecticide) (also a metabolite of Thiamethoxam)						
Apple Juice	379	0			0.010 ^	1.0
Baby Food - Applesauce	379	0			0.010 ^	1.0
Baby Food - Peas	378	0			0.060 ^	0.02
Bananas	708	0			0.035 ^	NT
Broccoli	708	4	0.6	0.011 - 0.015	0.010 ^	4.5
Carrots	712	0			0.005 ^	0.8
Cauliflower	516	1	0.2	0.011 ^	0.005 - 0.010	4.5

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
Celery	708	1	0.1	0.003 ^	0.002 - 0.010	4.0
Grape Juice	176	0			0.010 ^	0.60
Green Beans	378	1	0.3	0.019 ^	0.005 ^	0.02
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	5	0.9	0.008 - 0.031	0.005 ^	0.5
Peaches	285	26	9.1	0.010 - 0.13	0.010 ^	0.80
Plums	507	0			0.005 ^	0.5
Raspberries	652	0			0.005 - 0.035	0.35
Raspberries, Frozen	53	0			0.005 - 0.035	0.35
Summer Squash	709	6	0.8	0.006 - 0.012	0.005 - 0.050	0.2
Winter Squash	187	1	0.5	0.005 ^	0.003 ^	0.2
TOTAL	**8,510**	**45**				
Coumaphos (insecticide)						
Baby Food - Applesauce	357	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.005	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**4,007**	**0**				
Coumaphos oxygen analog (metabolite of Coumaphos)						
Cauliflower	532	0			0.008 ^	NT
Celery	362	0			0.008 ^	NT
TOTAL	**894**	**0**				
Crotoxyphos (insecticide, acaricide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Crufomate (insecticide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Cyazofamid (fungicide)						
Bananas	708	0			0.020 ^	NT
Carrots	712	32	4.5	0.013 - 0.030	0.008 ^	0.09
Celery	346	0			0.010 ^	NT
Green Beans	378	0			0.010 ^	0.5
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.020	NT
Raspberries, Frozen	53	0			0.010 - 0.020	NT
Summer Squash	709	3	0.4	0.011 - 0.059	0.010 - 0.050	0.10
Winter Squash	187	8	4.3	0.010 - 0.10	0.006 ^	0.10
TOTAL	**4,252**	**43**				
Cyfluthrin (insecticide)						
Apple Juice	379	0			0.004 ^	0.5
Baby Food - Applesauce	357	0			0.001 - 0.005	0.5
Baby Food - Peas	378	0			0.050 ^	0.25
Bananas	708	0			0.042 ^	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
Broccoli	707	5	0.7	0.006 - 0.14	0.005 ^	2.5
Carrots	712	0			0.015 ^	0.20
Cauliflower	532	1	0.2	0.072 ^	0.008 ^	2.5
Celery	693	2	0.3	0.005 - 0.007	0.005 - 0.025	6.0
Grape Juice	176	0			0.004 ^	1.0
Green Beans (X-1)	378	1	0.3	0.11 ^	0.10 ^	0.05
Mushrooms	532	0			0.004 ^	0.05
Nectarines	543	1	0.2	0.025 ^	0.015 ^	0.3
Peaches	285	38	13.3	0.006 - 0.12	0.005 ^	0.3
Plums	507	0			0.005 ^	0.3
Raspberries	652	0			0.005 - 0.042	0.05
Raspberries, Frozen	53	0			0.005 - 0.042	0.05
Summer Squash	709	3	0.4	0.008 - 0.010	0.005 - 0.10	0.1
Winter Squash	187	0			0.030 ^	0.1
TOTAL	**8,488**	**51**				
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (insecticide)						
Apple Juice	379	0			0.005 ^	0.30
Baby Food - Applesauce	379	2	0.5	0.003 ^	0.002 ^	0.30
Baby Food - Peas	378	0			0.075 ^	0.01
Bananas	708	0			0.012 ^	0.01
Broccoli	707	11	1.6	0.009 - 0.033	0.008 ^	0.4
Cauliflower	532	2	0.4	0.005 ^	0.003 ^	0.4
Celery	708	3	0.4	0.005 ^	0.003 - 0.010	0.01
Grape Juice	176	0			0.005 ^	0.01
Green Beans	378	0			0.075 ^	0.20
Mushrooms	532	0			0.005 ^	0.01
Peaches	285	28	9.8	0.008 - 0.14	0.008 ^	0.50
Plums	507	0			0.010 ^	0.50
Raspberries	652	0			0.010 - 0.012	0.01
Raspberries, Frozen	53	0			0.010 - 0.012	0.01
Summer Squash	709	0			0.010 - 0.075	0.05
Winter Squash	187	0			0.012 ^	0.05
TOTAL	**7,270**	**46**				
Cyhalothrin, Lambda (includes gamma isomer)						
Carrots	712	0			0.002 ^	0.01
Nectarines	543	126	23.2	0.003 - 0.055	0.002 ^	0.50
TOTAL	**1,255**	**126**				
Cymoxanil (fungicide)						
Apple Juice	379	0			0.005 ^	NT
Bananas	708	0			0.020 ^	NT
Cauliflower	516	0			0.005 - 0.010	NT
Celery	693	0			0.002 - 0.010	6.0
Green Beans	378	0			0.010 ^	NT
Mushrooms	532	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.020	4.0
Raspberries, Frozen	53	0			0.010 - 0.020	4.0
Summer Squash	709	0			0.010 - 0.050	0.05
Winter Squash	187	0			0.006 ^	0.05
TOTAL	**5,314**	**0**				
Cypermethrin (insecticide)						
Apple Juice	379	0			0.010 ^	2
Baby Food - Applesauce	379	0			0.002 ^	2
Baby Food - Peas	378	0			0.080 ^	0.1
Bananas	708	0			0.069 ^	0.05
Broccoli (X-1)	707	13	1.8	0.010 - 6.6	0.010 ^	2.0
Carrots	712	0			0.020 ^	0.1
Cauliflower	532	0			0.022 ^	2.0
Celery	708	35	4.9	0.010 - 0.044	0.010 - 0.022	10.00
Grape Juice	176	0			0.010 ^	2
Green Beans	378	0			0.30 ^	0.5
Mushrooms	532	0			0.010 ^	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
Nectarines	543	0			0.020 ^	1
Peaches	285	6	2.1	0.010 - 0.078	0.010 ^	1
Plums	507	0			0.010 ^	1
Raspberries	652	92	14.1	0.010 - 0.47	0.010 - 0.069	0.8
Raspberries, Frozen	53	3	5.7	0.15 - 0.33	0.010 - 0.069	0.8
Summer Squash	709	3	0.4	0.011 - 0.015	0.010 - 0.20	0.2
Winter Squash	187	0			0.024 ^	0.2
TOTAL	**8,525**	**152**				
Cyphenothrin (insecticide)						
Apple Juice	379	0			0.015 ^	NT
Baby Food - Peas	378	0			0.050 ^	NT
Bananas	708	0			0.029 ^	NT
Carrots	712	0			0.010 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.015 ^	NT
Green Beans	378	0			0.050 ^	NT
Mushrooms	502	0			0.015 ^	NT
Nectarines	543	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.029	NT
Raspberries, Frozen	53	0			0.010 - 0.029	NT
Summer Squash	709	0			0.010 - 0.050	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**6,230**	**0**				
Cyproconazole (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Bananas	708	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**3,716**	**0**				
Cyprodinil (fungicide)						
Apple Juice	379	0			0.005 ^	1.7
Baby Food - Applesauce	379	14	3.7	0.002 - 0.008	0.001 ^	1.7
Bananas	708	0			0.012 ^	NT
Broccoli	707	0			0.005 ^	1.0
Carrots	712	0			0.001 ^	0.75
Celery	317	0			0.003 ^	30
Grape Juice	148	0			0.005 ^	3.0
Green Beans	378	0			0.055 ^	0.6
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	36	6.6	0.003 - 0.22	0.002 ^	2.0
Peaches	285	22	7.7	0.011 - 1.0	0.005 ^	2.0
Plums	507	18	3.6	0.003 - 0.044	0.003 ^	2.0
Raspberries	652	75	11.5	0.003 - 1.7	0.003 - 0.012	10
Raspberries, Frozen	53	9	17	0.024 - 0.92	0.003 - 0.012	10
Summer Squash	709	9	1.3	0.003 - 0.077	0.003 - 0.055	0.70
Winter Squash	187	1	0.5	0.011 ^	0.003 ^	0.70
TOTAL	**7,196**	**184**				
Cyromazine (insect growth regulator)						
Cauliflower	372	0			0.008 ^	10.0
Celery	648	91	14	0.005 - 0.32	0.005 - 0.016	7.0
Green Beans	378	0			0.10 ^	2.0
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	709	24	3.4	0.005 - 0.061	0.005 - 0.16	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
Winter Squash	187	7	3.7	0.005 - 0.022	0.003 ^	1.0
TOTAL	**3,162**	**122**				
DCPA (herbicide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.010 ^	NT
Broccoli	707	70	9.9	0.005 - 0.063	0.005 ^	5.0
Cauliflower	532	18	3.4	0.002 - 0.006	0.001 ^	5.0
Celery (V-16)	708	16	2.3	0.002 - 0.011	0.001 - 0.003	NT
Grape Juice	176	0			0.002 ^	NT
Green Beans	378	0			0.010 ^	2.0
Mushrooms	532	0			0.002 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries (V-3)	652	3	0.5	0.003 - 0.005	0.003 - 0.010	NT
Raspberries, Frozen	53	0			0.003 - 0.010	NT
Summer Squash	709	0			0.003 - 0.025	1.0
Winter Squash	187	0			0.002 ^	1.0
TOTAL	**6,892**	**107**				
DEF - Tribufos (herbicide, plant growth regulator)						
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.002 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**1,940**	**0**				
Deltamethrin (includes parent Tralomethrin) (insecticide)						
Apple Juice	379	0			0.015 ^	0.2
Baby Food - Applesauce	379	0			0.002 ^	0.2
Baby Food - Peas	378	0			0.050 ^	0.05
Bananas	708	0			0.12 ^	0.05
Broccoli	707	0			0.008 ^	0.05
Carrots	712	0			0.020 ^	0.2
Cauliflower	532	21	3.9	0.020 ^	0.012 ^	0.05
Celery	708	78	11	0.020 ^	0.005 - 0.040	0.05
Grape Juice	176	0			0.015 ^	0.05
Green Beans	378	0			0.050 ^	0.05
Mushrooms	532	0			0.015 ^	0.05
Nectarines	543	0			0.020 ^	0.05
Peaches	285	0			0.008 ^	0.05
Plums	507	0			0.005 ^	0.05
Raspberries	652	0			0.005 - 0.12	0.05
Raspberries, Frozen	53	0			0.005 - 0.12	0.05
Summer Squash	709	0			0.005 - 0.10	0.2
Winter Squash	187	0			0.012 ^	0.2
TOTAL	**8,525**	**99**				
Demeton-O (metabolite of the insecticide Demeton)						
Celery	346	0			0.020 ^	NT
Plums	507	0			0.020 ^	NT
Raspberries	351	0			0.020 ^	NT
Raspberries, Frozen	10	0			0.020 ^	NT
Summer Squash	363	0			0.020 ^	NT
TOTAL	**1,577**	**0**				
Demeton-S (metabolite of Demeton)						
Celery	346	0			0.030 ^	NT
Plums	507	0			0.030 ^	NT
Raspberries	322	0			0.030 ^	NT
Raspberries, Frozen	7	0			0.030 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	363	0			0.030 ^	NT
Winter Squash	187	0			0.009 ^	NT
TOTAL	**1,732**	**0**				
Demeton-S sulfone (metabolite of Demeton-S)						
Apple Juice	165	0			0.004 ^	NT
Celery	346	0			0.003 ^	NT
Mushrooms	155	0			0.004 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,084**	**0**				
Dialifos (insecticide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Diazinon (insecticide)						
Apple Juice	379	0			0.005 ^	0.50
Baby Food - Applesauce	379	0			0.002 ^	0.50
Baby Food - Peas	378	0			0.20 ^	0.50
Bananas	708	0			0.010 ^	0.20
Broccoli	708	0			0.002 ^	0.70
Carrots	712	38	5.3	0.002 - 0.038	0.001 ^	0.75
Cauliflower	473	0			0.001 ^	0.70
Celery	558	1	0.2	0.051 ^	0.001 - 0.003	0.70
Grape Juice	176	0			0.005 ^	0.75
Green Beans	378	1	0.3	0.093 ^	0.001 ^	0.50
Mushrooms	532	0			0.005 ^	0.75
Nectarines	543	0			0.001 ^	0.20
Peaches	285	0			0.002 ^	0.20
Plums	507	0			0.003 ^	0.20
Raspberries	652	0			0.003 - 0.010	0.75
Raspberries, Frozen	53	0			0.003 - 0.010	0.75
Summer Squash	709	0			0.003 - 0.20	0.50
Winter Squash	187	0			0.002 ^	0.75
TOTAL	**8,317**	**40**				
Diazinon oxygen analog (metabolite of Diazinon)						
Baby Food - Applesauce	379	0			0.001 ^	0.50
Baby Food - Peas	378	0			0.030 ^	0.50
Bananas	708	0			0.008 ^	0.20
Broccoli	708	0			0.001 ^	0.70
Carrots	712	0			0.001 ^	0.75
Cauliflower	532	0			0.001 ^	0.70
Celery	708	0			0.001 - 0.005	0.70
Green Beans	378	0			0.001 ^	0.50
Nectarines	543	0			0.001 ^	0.20
Peaches	285	0			0.001 ^	0.20
Plums	507	0			0.005 ^	0.20
Raspberries	652	0			0.005 - 0.008	0.75
Raspberries, Frozen	53	0			0.005 - 0.008	0.75
Summer Squash	709	0			0.005 - 0.060	0.50
Winter Squash	187	0			0.003 ^	0.75
TOTAL	**7,439**	**0**				
Dichlobenil (herbicide)						
Apple Juice	379	0			0.010 ^	0.5
Baby Food - Applesauce	357	0			0.001 ^	0.5
Bananas	708	0			0.007 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Grape Juice	176	0			0.010 ^	0.15
Peaches	285	0			0.005 ^	0.15
Plums	507	0			0.003 ^	0.15
Raspberries	652	0			0.003 - 0.007	0.10
Raspberries, Frozen	53	0			0.003 - 0.007	0.10
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,614**	**0**				
Dichlofluanid (fungicide, acaricide)						
Bananas	708	0			0.035 ^	NT
Raspberries	301	0			0.035 ^	NT
Raspberries, Frozen	43	0			0.035 ^	NT
TOTAL	**1,052**	**0**				
Dichlorvos - DDVP (insecticide) (also a metabolite of Naled)						
Apple Juice	379	0			0.020 ^	0.5
Baby Food - Peas	378	0			0.060 ^	0.5
Bananas	708	0			0.005 ^	0.5
Carrots	243	0			0.007 ^	0.5
Celery	708	0			0.010 - 0.020	0.5
Grape Juice	176	0			0.020 ^	0.5
Green Beans	378	0			0.060 ^	0.5
Mushrooms	532	0			0.020 ^	0.5
Nectarines	543	0			0.010 ^	0.5
Plums	507	0			0.020 ^	0.5
Raspberries	652	0			0.005 - 0.020	0.5
Raspberries, Frozen	53	0			0.005 - 0.020	0.5
Summer Squash	709	0			0.020 - 0.060	0.5
Winter Squash	187	0			0.012 ^	0.5
TOTAL	**6,153**	**0**				
Diclofop methyl (herbicide)						
Grape Juice	146	0			0.001 ^	NT
TOTAL	**146**	**0**				
Dicloran (fungicide)						
Apple Juice	379	0			0.016 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.020 ^	NT
Broccoli (V-1)	707	1	0.1	0.035 ^	0.005 ^	NT
Carrots	711	0			0.006 ^	10
Cauliflower	532	0			0.002 ^	NT
Celery	708	266	37.6	0.004 - 2.5	0.002 - 0.010	15
Grape Juice	176	0			0.016 ^	10
Green Beans	378	20	5.3	0.11 - 1.5	0.10 ^	20
Mushrooms	532	0			0.016 ^	NT
Nectarines	543	0			0.006 ^	20
Peaches	285	0			0.005 ^	20
Plums	507	0			0.010 ^	15
Raspberries	652	0			0.010 - 0.020	NT
Raspberries, Frozen	53	0			0.010 - 0.020	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 - 0.020	NT
TOTAL	**7,800**	**287**				
Dicofol Total (insecticide)						
Green Beans	378	0			0.15 ^	3.0
Nectarines	543	0			0.003 ^	5.0
Summer Squash	346	0			0.15 ^	2.0
TOTAL	**1,267**	**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
Dicofol o,p' (isomer of Dicofol)						
Bananas	708	0			0.015 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.010	NT
Plums	507	0			0.010 ^	5.0
Raspberries	652	0			0.010 - 0.015	5.0
Raspberries, Frozen	53	0			0.010 - 0.015	5.0
Summer Squash	363	0			0.010 ^	2.0
TOTAL	**3,523**	**0**				
Dicofol p,p' (isomer of Dicofol)						
Apple Juice	379	0			0.010 ^	10.0
Bananas	708	0			0.024 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.005	NT
Grape Juice	176	0			0.010 ^	5.0
Mushrooms	532	0			0.010 ^	NT
Peaches	269	0			0.005 ^	5.0
Plums	507	0			0.005 ^	5.0
Raspberries	652	0			0.005 - 0.024	5.0
Raspberries, Frozen	53	0			0.005 - 0.024	5.0
Summer Squash	363	0			0.005 ^	2.0
Winter Squash	187	0			0.006 ^	2.0
TOTAL	**5,066**	**0**				
Dicrotophos (insecticide)						
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,658**	**0**				
Diethofencarb (fungicide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,577**	**0**				
Difenoconazole (fungicide)						
Apple Juice	379	0			0.010 ^	1.0
Baby Food - Applesauce	379	0			0.005 ^	1.0
Bananas	708	0			0.005 ^	0.2
Broccoli	708	1	0.1	0.019 ^	0.005 ^	1.9
Carrots	712	11	1.5	0.002 - 0.007	0.001 ^	0.50
Cauliflower	532	0			0.003 ^	1.9
Celery (V-2)	708	2	0.3	0.004 - 0.006	0.003 - 0.005	NT
Grape Juice	176	0			0.010 ^	4.0
Green Beans	378	0			0.005 ^	NT
Nectarines	543	5	0.9	0.002 - 0.004	0.001 ^	2.5
Peaches	285	6	2.1	0.007 - 0.038	0.005 ^	2.5
Plums	507	0			0.005 ^	2.5
Raspberries (V-1)	652	1	0.2	0.098 ^	0.005 ^	NT
Raspberries, Frozen	53	0			0.005 ^	NT
Summer Squash	709	3	0.4	0.005 - 0.009	0.005 ^	0.70
Winter Squash	187	0			0.003 ^	0.70
TOTAL	**7,616**	**29**				
Diflubenzuron (insecticide)						
Apple Juice	379	0			0.003 ^	NT
Bananas	708	0			0.15 ^	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
Carrots	712	0			0.002 ^	NT
Cauliflower	516	0			0.002 ^	NT
Celery	708	0			0.002 - 0.020	NT
Grape Juice	176	0			0.003 ^	NT
Mushrooms	532	0			0.003 ^	0.2
Nectarines	543	2	0.4	0.005 ^	0.003 ^	0.07
Plums	507	0			0.020 ^	0.07
Raspberries	652	0			0.020 - 0.15	NT
Raspberries, Frozen	53	0			0.020 - 0.15	NT
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**6,036**	**2**				
Dimethenamid (herbicide)						
Apple Juice	379	0			0.003 ^	NT
Bananas	708	0			0.007 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Grape Juice	176	0			0.003 ^	NT
Mushrooms	532	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.007	NT
Raspberries, Frozen	53	0			0.003 - 0.007	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	0.01
TOTAL	**4,797**	**0**				
Dimethoate (insecticide) (parent of Omethoate)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Baby Food - Peas	378	0			0.010 ^	2.0
Bananas	708	0			0.005 ^	NT
Broccoli	708	4	0.6	0.011 - 0.21	0.010 ^	2.0
Cauliflower	532	2	0.4	0.004 - 0.036	0.002 ^	2.0
Celery	708	30	4.2	0.003 - 0.21	0.002 - 0.003	2.0
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	20	5.3	0.001 - 0.63	0.001 ^	2.0
Mushrooms	532	0			0.005 ^	NT
Nectarines (V-1)	543	1	0.2	0.005 ^	0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.005	NT
Raspberries, Frozen	53	0			0.003 - 0.005	NT
Summer Squash	709	0			0.003 - 0.010	NT
Winter Squash (V-1)	187	1	0.5	0.021 ^	0.002 ^	NT
TOTAL	**7,814**	**58**				
Dimethomorph (fungicide)						
Apple Juice	379	0			0.003 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	3	0.4	0.018 - 0.067	0.010 ^	6.0
Cauliflower	532	1	0.2	0.002 ^	0.001 ^	6.0
Celery	708	8	1.1	0.002 - 0.004	0.001 - 0.005	30.0
Grape Juice	176	0			0.003 ^	3.0
Green Beans (V-1)	378	1	0.3	0.036 ^	0.001 ^	NT
Mushrooms	502	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	709	1	0.1	0.020 ^	0.005 - 0.010	0.5
Winter Squash	187	1	0.5	0.005 ^	0.003 ^	0.5
TOTAL	**5,811**	**15**				
Diniconazole (fungicide)						
Celery	346	0			0.020 ^	NT
Plums	507	0			0.020 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Raspberries	351	0			0.020 ^	NT
Raspberries, Frozen	10	0			0.020 ^	NT
Summer Squash	363	0			0.020 ^	NT
TOTAL	**1,577**	**0**				
Dinotefuran (insecticide)						
Apple Juice	379	1	0.3	0.011 ^	0.003 ^	1.0
Bananas	708	0			0.015 ^	0.01
Cauliflower	532	0			0.006 ^	1.4
Celery	708	23	3.2	0.010 - 0.071	0.006 - 0.020	5.0
Grape Juice	176	0			0.003 ^	0.9
Green Beans (X-2)	378	2	0.5	0.17 ^	0.040 ^	0.01
Mushrooms	532	0			0.003 ^	0.01
Nectarines	543	1	0.2	0.10 ^	0.060 ^	1.0
Plums	507	0			0.010 ^	1.0
Raspberries	652	0			0.010 - 0.015	NT
Raspberries, Frozen	53	0			0.010 - 0.015	NT
Summer Squash	709	33	4.7	0.010 - 0.40	0.010 - 0.10	0.5
Winter Squash	187	4	2.1	0.010 - 0.043	0.006 ^	0.5
TOTAL	**6,064**	**64**				
Dioxacarb (insecticide)						
Nectarines	543	0			0.004 ^	NT
TOTAL	**543**	**0**				
Dioxathion (insecticide)						
Celery	346	0			0.020 ^	NT
Plums	453	0			0.020 - 0.040	NT
Raspberries	351	0			0.020 ^	NT
Raspberries, Frozen	10	0			0.020 ^	NT
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**1,710**	**0**				
Diphenamid (herbicide)						
Baby Food - Applesauce	357	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	362	0			0.002 ^	NT
Peaches	285	0			0.005 ^	NT
TOTAL	**2,243**	**0**				
Diphenylamine - DPA (plant growth regulator)						
Apple Juice	379	67	17.7	0.002 - 0.066	0.002 ^	10.0
Baby Food - Applesauce	379	10	2.6	0.005 - 0.035	0.005 ^	10.0
Bananas	708	0			0.060 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.003 ^	NT
Grape Juice	176	0			0.002 ^	NT
Mushrooms	532	0			0.002 ^	NT
Peaches (V-1)	285	1	0.4	0.007 ^	0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.060	NT
Raspberries, Frozen	53	0			0.003 - 0.060	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,168**	**78**				
Disulfoton (insecticide)						
Apple Juice	33	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.050 ^	NT
Broccoli	707	0			0.005 ^	0.75
Cauliflower	532	0			0.002 ^	0.75
Celery	708	0			0.002 - 0.010	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Mushrooms	31	0			0.010 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.050	NT
Raspberries, Frozen	53	0			0.010 - 0.050	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**5,145**	**0**				
Disulfoton oxon (metabolite of Disulfoton)						
Apple Juice	379	0			0.001 ^	NT
Bananas	708	0			0.002 ^	NT
Cauliflower	532	0			0.002 ^	0.75
Celery	362	0			0.002 ^	NT
Grape Juice	176	0			0.001 ^	NT
Green Beans	378	0			0.001 ^	0.75
Mushrooms	532	0			0.001 ^	NT
Raspberries	301	0			0.002 ^	NT
Raspberries, Frozen	43	0			0.002 ^	NT
TOTAL	**3,411**	**0**				
Disulfoton sulfone (metabolite of Disulfoton)						
Apple Juice	379	0			0.020 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.010 ^	NT
Broccoli	708	0			0.050 ^	0.75
Cauliflower	532	0			0.002 ^	0.75
Celery	708	0			0.002 - 0.003	NT
Grape Juice	148	0			0.020 ^	NT
Mushrooms	532	0			0.020 ^	NT
Peaches	285	0			0.050 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.010	NT
Raspberries, Frozen	53	0			0.003 - 0.010	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**6,141**	**0**				
Disulfoton sulfone oxygen analog (metabolite of Disulfoton)						
Bananas	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 - 0.006	0.75
Celery	362	0			0.001 - 0.006	NT
Green Beans	378	0			0.005 ^	0.75
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**2,324**	**0**				
Disulfoton sulfoxide (metabolite of Disulfoton)						
Apple Juice	379	0			0.005 ^	NT
Bananas	708	0			0.005 ^	NT
Cauliflower	532	0			0.002 - 0.006	0.75
Celery	708	0			0.002 - 0.003	NT
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.001 ^	0.75
Mushrooms	532	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.005	NT
Raspberries, Frozen	53	0			0.003 - 0.005	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**5,175**	**0**				
Disulfoton sulfoxide oxygen analog (metabolite of Disulfoton)						
Bananas	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 - 0.003	0.75
Celery	362	0			0.001 - 0.003	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Green Beans	378	0			0.001 ^	0.75
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**2,324**	**0**				
Diuron (herbicide)						
Apple Juice	379	0			0.003 ^	0.1
Baby Food - Peas	378	0			0.10 ^	0.1
Bananas	708	0			0.030 ^	0.1
Cauliflower	532	0			0.008 - 0.025	NT
Celery	708	0			0.008 - 0.020	NT
Grape Juice	148	0			0.003 ^	0.05
Green Beans	378	0			0.010 ^	NT
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	0			0.020 ^	NT
Plums	507	0			0.020 ^	NT
Raspberries	652	0			0.020 - 0.030	0.1
Raspberries, Frozen	53	0			0.020 - 0.030	0.1
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**6,068**	**0**				
DMST (4-dimethylaminosulphotosluidide) (metabolite of Tolyfluanid)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,577**	**0**				
Dodine (fungicide)						
Apple Juice	379	0			0.010 ^	5.0
Celery	346	0			0.020 ^	NT
Grape Juice	148	0			0.010 ^	NT
Nectarines	453	0			0.015 ^	5.0
Plums	507	0			0.020 ^	5.0
Raspberries	351	0			0.020 ^	NT
Raspberries, Frozen	10	0			0.020 ^	NT
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**2,744**	**0**				
Emamectin (insecticide)						
Celery	346	0			0.010 ^	0.100
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	0.02
Winter Squash	187	0			0.006 ^	0.02
TOTAL	**1,764**	**0**				
Emamectin benzoate [1] (insecticide)						
Apple Juice	379	0			0.010 ^	0.025
Cauliflower	532	0			0.001 ^	0.050
Celery	362	0			0.001 ^	0.100
Grape Juice	176	0			0.010 ^	0.03
TOTAL	**1,449**	**0**				
Endosulfan I (insecticide)						
Apple Juice	379	0			0.010 ^	1.0
Baby Food - Applesauce	357	0			0.001 ^	1.0
Bananas	708	0			0.030 ^	NT
Broccoli	707	0			0.005 ^	3.0
Carrots	712	0			0.004 ^	0.2
Cauliflower	532	0			0.006 ^	2.0
Celery	708	3	0.4	0.010 - 0.067	0.006 - 0.010	8.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	1	0.3	0.19 ^	0.12 ^	2.0
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.004 ^	2.0
Peaches	285	0			0.005 ^	2.0
Plums	507	0			0.010 ^	2.0
Raspberries	652	0			0.010 - 0.030	NT
Raspberries, Frozen	53	0			0.010 - 0.030	NT
Summer Squash	709	6	0.8	0.011 - 0.039	0.010 - 0.25	1.0
Winter Squash	187	1	0.5	0.010 ^	0.006 ^	1.0
TOTAL	**8,125**	**11**				
Endosulfan II (isomer of Endosulfan)						
Apple Juice	379	0			0.015 ^	1.0
Baby Food - Applesauce	357	0			0.001 ^	1.0
Bananas	708	0			0.042 ^	NT
Broccoli	707	0			0.005 ^	3.0
Carrots	712	0			0.010 ^	0.2
Cauliflower	532	0			0.001 - 0.004	2.0
Celery	708	4	0.6	0.002 - 0.067	0.001 - 0.010	8.0
Grape Juice	176	0			0.015 ^	NT
Green Beans	378	2	0.5	0.043 - 0.085	0.025 ^	2.0
Mushrooms	502	0			0.015 ^	NT
Nectarines	543	0			0.010 ^	2.0
Peaches	285	1	0.4	0.011 ^	0.005 ^	2.0
Plums	507	0			0.010 ^	2.0
Raspberries	652	0			0.010 - 0.042	NT
Raspberries, Frozen	53	0			0.010 - 0.042	NT
Summer Squash	709	0			0.010 - 0.050	1.0
Winter Squash	187	1	0.5	0.015 ^	0.009 ^	1.0
TOTAL	**8,095**	**8**				
Endosulfan sulfate (metabolite of Endosulfan)						
Apple Juice	379	0			0.005 ^	1.0
Baby Food - Applesauce	379	1	0.3	0.002 ^	0.001 ^	1.0
Bananas	708	0			0.020 ^	NT
Broccoli	707	1	0.1	0.011 ^	0.005 ^	3.0
Carrots	712	5	0.7	0.003 - 0.010	0.002 ^	0.2
Cauliflower	532	0			0.004 - 0.012	2.0
Celery	708	2	0.3	0.008 - 0.028	0.005 - 0.012	8.0
Grape Juice	146	0			0.005 ^	NT
Green Beans	378	2	0.5	0.14 - 0.23	0.025 ^	2.0
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	0			0.002 ^	2.0
Peaches	285	1	0.4	0.024 ^	0.005 ^	2.0
Plums	507	0			0.005 ^	2.0
Raspberries	652	0			0.005 - 0.020	NT
Raspberries, Frozen	53	0			0.005 - 0.020	NT
Summer Squash	709	124	17.5	0.005 - 0.12	0.005 - 0.050	1.0
Winter Squash	187	33	17.6	0.005 - 0.070	0.003 ^	1.0
TOTAL	**8,117**	**169**				
Epoxiconazole (fungicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
EPTC (herbicide)						
Apple Juice	99	0			0.010 ^	NT
Baby Food - Peas	378	0			0.005 ^	0.08
Bananas	708	0			0.035 ^	NT
Carrots	712	1	0.1	0.007 ^	0.004 ^	0.1
Cauliflower	532	0			0.006 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Celery	362	0			0.001 - 0.006	NT
Green Beans	378	4	1.1	0.001 - 0.009	0.001 ^	0.08
Mushrooms	124	0			0.010 ^	NT
Raspberries	301	0			0.035 ^	NT
Raspberries, Frozen	43	0			0.035 ^	NT
TOTAL	**3,637**	**5**				
Esfenvalerate+Fenvalerate Total (insecticide)						
Apple Juice	379	0			0.005 ^	1.0
Baby Food - Applesauce	379	0			0.001 ^	1.0
Baby Food - Peas	378	0			0.075 ^	0.5
Broccoli	707	7	1	0.008 - 0.089	0.005 ^	1.0
Cauliflower	532	0			0.008 ^	0.5
Celery	708	1	0.1	0.018 ^	0.002 - 0.008	0.05
Grape Juice	176	0			0.005 ^	0.05
Green Beans	378	3	0.8	0.083 - 0.10	0.075 ^	1.0
Mushrooms	532	0			0.005 ^	0.05
Peaches	285	33	11.6	0.005 - 0.13	0.005 ^	3.0
Plums	507	2	0.4	0.007 - 0.010	0.005 ^	3.0
Raspberries	351	0			0.005 ^	1.0
Raspberries, Frozen	10	0			0.005 ^	1.0
Summer Squash	709	0			0.005 - 0.075	0.5
Winter Squash	187	0			0.008 ^	0.5
TOTAL	**6,218**	**46**				
Esfenvalerate (isomer of Fenvalerate)						
Bananas	708	0			0.035 ^	0.05
Carrots	712	0			0.015 ^	0.5
Nectarines	543	19	3.5	0.025 ^	0.015 ^	3.0
Raspberries	301	0			0.035 ^	1.0
Raspberries, Frozen	43	0			0.035 ^	1.0
TOTAL	**2,307**	**19**				
Ethalfluralin (herbicide)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Peas	378	0			0.025 ^	NT
Bananas	708	0			0.010 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.005	NT
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.010 ^	NT
Mushrooms	532	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	709	0			0.005 - 0.020	0.05
Winter Squash	187	0			0.006 ^	0.05
TOTAL	**5,899**	**0**				
Ethiofencarb (insecticide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	30	0			0.002 ^	NT
Peaches	285	0			0.010 ^	NT
TOTAL	**1,934**	**0**				
Ethion (insecticide)						
Apple Juice	379	0			0.001 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.007 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Grape Juice	176	0			0.001 ^	NT
Peaches	285	0			0.010 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.007	NT
Raspberries, Frozen	53	0			0.003 - 0.007	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**5,637**	**0**				
Ethion mono oxon (metabolite of Ethion)						
Apple Juice	379	0			0.001 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Grape Juice	176	0			0.001 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**3,213**	**0**				
Ethofumesate (herbicide)						
Bananas	708	0			0.005 ^	NT
Carrots	712	2	0.3	0.025 ^	0.015 ^	7.0
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.005	NT
Raspberries, Frozen	53	0			0.003 - 0.005	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**3,528**	**2**				
Ethoprop (insecticide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	8	1.1	0.002 - 0.015	0.002 ^	0.02
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Grape Juice	28	0			0.002 ^	NT
Green Beans	378	0			0.001 ^	0.02
Mushrooms	532	0			0.002 ^	NT
Nectarines	543	0			0.001 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.002 - 0.003	NT
Raspberries, Frozen	53	0			0.002 - 0.003	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**6,942**	**8**				
Ethylan (insecticide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,577**	**0**				
Etofenprox (insecticide)						
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.025 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,753**	**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
Etoxazole (acaricide)						
Apple Juice	349	0			0.005 ^	0.20
Baby Food - Applesauce	379	0			0.004 ^	0.20
Broccoli	708	0			0.004 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Grape Juice	176	0			0.005 ^	0.50
Green Beans	378	0			0.001 ^	NT
Nectarines	543	4	0.7	0.002 - 0.012	0.001 ^	1.0
Peaches	285	8	2.8	0.004 - 0.010	0.004 ^	1.0
Plums	507	0			0.003 ^	0.15
Raspberries	351	14	4	0.003 - 0.23	0.003 ^	1.5
Raspberries, Frozen	10	0			0.003 ^	1.5
Summer Squash	709	0			0.003 - 0.005	0.02
Winter Squash	187	0			0.002 ^	0.02
TOTAL	**5,822**	**26**				
Etridiazole (fungicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.10 ^	0.1
Bananas	708	0			0.010 ^	NT
Broccoli	687	0			0.005 ^	NT
Green Beans	378	0			0.30 ^	0.1
Peaches	285	0			0.005 ^	NT
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**3,159**	**0**				
Famoxadone (fungicide)						
Apple Juice	379	0			0.025 ^	NT
Bananas	708	0			0.033 ^	NT
Cauliflower	483	0			0.003 ^	NT
Celery	692	0			0.003 - 0.010	25
Grape Juice	176	0			0.025 ^	2.5
Mushrooms	503	0			0.025 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.033	10
Raspberries, Frozen	53	0			0.010 - 0.033	10
Summer Squash	709	1	0.1	0.023 ^	0.010 - 0.050	0.30
Winter Squash	187	1	0.5	0.028 ^	0.006 ^	0.30
TOTAL	**5,049**	**2**				
Fenamidone (fungicide)						
Apple Juice	379	0			0.005 ^	NT
Bananas	708	0			0.060 ^	NT
Carrots	712	0			0.020 ^	0.15
Cauliflower	532	0			0.002 ^	5.0
Celery	708	11	1.6	0.004 - 0.070	0.002 - 0.010	60
Grape Juice	176	0			0.005 ^	1.0
Green Beans (V-1)	378	1	0.3	0.001 ^	0.001 ^	NT
Mushrooms	503	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.060	NT
Raspberries, Frozen	53	0			0.010 - 0.060	NT
Summer Squash	709	0			0.010 - 0.050	0.15
Winter Squash	187	0			0.006 ^	0.15
TOTAL	**6,204**	**12**				
Fenamiphos (insecticide)						
Baby Food - Applesauce	379	0			0.005 ^	NT
Bananas	708	0			0.020 ^	0.1
Broccoli	708	0			0.005 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Grape Juice	176	0			0.050 ^	0.1
Peaches	285	0			0.005 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.020	NT
Raspberries, Frozen	53	0			0.003 - 0.020	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**5,258**	**0**				
Fenamiphos sulfone (metabolite of Fenamiphos)						
Baby Food - Applesauce	379	0			0.005 ^	NT
Bananas	708	0			0.004 ^	0.1
Broccoli	708	0			0.005 ^	NT
Cauliflower	532	0			0.004 ^	NT
Celery	708	0			0.004 - 0.005	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.004 - 0.005	NT
Raspberries, Frozen	53	0			0.004 - 0.005	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,082**	**0**				
Fenamiphos sulfoxide (metabolite of Fenamiphos)						
Baby Food - Applesauce	379	0			0.005 ^	NT
Bananas	708	0			0.004 ^	0.1
Broccoli	708	0			0.005 ^	NT
Cauliflower	532	0			0.004 ^	NT
Celery	708	0			0.004 - 0.020	NT
Grape Juice	176	0			0.050 ^	0.1
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.020 ^	NT
Raspberries	652	0			0.004 - 0.020	NT
Raspberries, Frozen	53	0			0.004 - 0.020	NT
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**5,258**	**0**				
Fenarimol (fungicide)						
Baby Food - Applesauce	379	0			0.001 ^	0.3
Bananas	708	0			0.013 ^	0.25
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Green Beans	378	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.013	NT
Raspberries, Frozen	53	0			0.003 - 0.013	NT
Summer Squash	709	0			0.003 - 0.025	0.20
Winter Squash	187	0			0.008 ^	0.20
TOTAL	**5,805**	**0**				
Fenazaquin (insecticide, acaricide)						
Apple Juice	379	0			0.005 ^	0.2
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.005 ^	NT
Mushrooms	501	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**2,633**	**0**				
Fenbuconazole (fungicide)						
Apple Juice	379	0			0.005 ^	0.4
Baby Food - Applesauce	379	1	0.3	0.006 ^	0.005 ^	0.4
Bananas	708	0			0.005 ^	0.3

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Broccoli	708	0			0.005 ^	NT
Cauliflower (V-1)	532	1	0.2	0.002 ^	0.001 ^	NT
Celery	708	0			0.001 - 0.010	NT
Grape Juice	176	0			0.005 ^	1.0
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	24	4.4	0.003 - 0.10	0.002 ^	1.0
Peaches	285	65	22.8	0.005 - 0.19	0.005 ^	1.0
Plums	507	0			0.010 ^	1.0
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash (V-2)	187	2	1.1	0.010 ^	0.006 ^	NT
TOTAL	**6,712**	**93**				
Fenbutatin oxide (insecticide, acaricide)						
Nectarines	543	0			0.012 ^	NT
TOTAL	**543**	**0**				
Fenchlorphos (insecticide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**1,764**	**0**				
Fenhexamid (fungicide)						
Apple Juice	379	0			0.013 ^	NT
Bananas	708	0			0.011 ^	NT
Cauliflower	532	0			0.010 ^	NT
Celery	376	0			0.009 - 0.040	NT
Grape Juice	176	11	6.2	0.020 - 0.082	0.013 ^	4.0
Green Beans	378	0			0.002 ^	NT
Mushrooms	532	0			0.013 ^	NT
Nectarines	543	63	11.6	0.008 - 0.98	0.005 ^	10.0
Plums	507	19	3.7	0.040 - 0.52	0.040 ^	1.5
Raspberries	652	12	1.8	0.013 - 0.72	0.011 - 0.040	20.0
Raspberries, Frozen	53	9	17	0.015 - 0.69	0.011 - 0.040	20.0
Summer Squash	709	0			0.010 - 0.040	NT
Winter Squash	187	0			0.024 ^	NT
TOTAL	**5,732**	**114**				
Fenitrothion (insecticide)						
Cauliflower	532	0			0.010 - 0.020	NT
Celery	708	0			0.003 - 0.020	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,658**	**0**				
Fenobucarb - BPMC (insecticide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Fenpropathrin (insecticide)						
Apple Juice	379	0			0.020 ^	5.0
Baby Food - Applesauce	379	25	6.6	0.002 ^	0.001 ^	5.0
Baby Food - Peas	378	0			0.12 ^	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
Bananas	708	0			0.020 ^	NT
Broccoli	707	0			0.005 ^	3.0
Carrots	712	0			0.003 ^	NT
Cauliflower	486	0			0.003 ^	3.0
Celery	708	0			0.003 - 0.005	NT
Grape Juice	176	0			0.020 ^	5.0
Green Beans (V-1)	378	1	0.3	0.067 ^	0.050 ^	NT
Mushrooms	532	0			0.020 ^	NT
Nectarines	543	14	2.6	0.005 - 0.16	0.003 ^	1.4
Peaches	285	26	9.1	0.006 - 1.0	0.005 ^	1.4
Plums	507	5	1	0.012 - 0.026	0.005 ^	1.4
Raspberries	652	1	0.2	0.043 ^	0.005 - 0.020	12
Raspberries, Frozen	53	0			0.005 - 0.020	12
Summer Squash	709	0			0.005 - 0.10	0.5
Winter Squash	187	1	0.5	0.020 ^	0.012 ^	0.5
TOTAL	**8,479**	**73**				
Fenpropimorph (fungicide)						
Apple Juice	379	0			0.001 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.001 ^	NT
Peaches	269	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**3,488**	**0**				
Fenpyroximate (acaricide)						
Apple Juice	379	0			0.005 ^	0.30
Baby Food - Applesauce	379	0			0.010 ^	0.30
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	362	0			0.001 - 0.003	NT
Grape Juice	176	0			0.005 ^	1.0
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	2	0.4	0.002 - 0.009	0.001 ^	2.0
Peaches	285	0			0.010 ^	2.0
TOTAL	**3,896**	**2**				
Fensulfothion (insecticide, fumigant)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Fenthion (insecticide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.015 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Grape Juice	176	0			0.010 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.015	NT
Raspberries, Frozen	53	0			0.003 - 0.015	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**5,257**	**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
Fenthion oxygen analog sulfone (metabolite of Fenthion)						
Bananas	708	0			0.007 ^	NT
Grape Juice	146	0			0.15 ^	NT
Raspberries	301	0			0.007 ^	NT
Raspberries, Frozen	43	0			0.007 ^	NT
TOTAL	**1,198**	**0**				
Fenthion oxygen analog sulfoxide (metabolite of Fenthion)						
Bananas	708	0			0.007 ^	NT
Grape Juice	176	0			0.050 ^	NT
Raspberries	301	0			0.007 ^	NT
Raspberries, Frozen	43	0			0.007 ^	NT
TOTAL	**1,228**	**0**				
Fenthion sulfone (metabolite of Fenthion)						
Bananas	708	0			0.030 ^	NT
Grape Juice	146	0			0.075 ^	NT
Raspberries	301	0			0.030 ^	NT
Raspberries, Frozen	43	0			0.030 ^	NT
TOTAL	**1,198**	**0**				
Fenthion sulfoxide (metabolite of Fenthion)						
Bananas	708	0			0.010 ^	NT
Grape Juice	146	0			0.020 ^	NT
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**1,198**	**0**				
Fenuron (herbicide)						
Carrots	712	0			0.005 ^	NT
Nectarines	543	0			0.025 ^	NT
TOTAL	**1,255**	**0**				
Fipronil (insecticide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.010 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	318	0			0.002 - 0.010	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	591	0			0.010 ^	NT
Raspberries, Frozen	53	0			0.010 ^	NT
Summer Squash	303	0			0.010 ^	NT
TOTAL	**3,851**	**0**				
Fipronil sulfone - MB46136 (metabolite of Fipronil)						
Apple Juice	379	0			0.050 ^	NT
Grape Juice	176	0			0.050 ^	NT
TOTAL	**555**	**0**				
Flonicamid (insecticide)						
Apple Juice	379	0			0.006 ^	0.20
Baby Food - Applesauce	379	0			0.010 ^	0.20
Bananas	708	0			0.005 ^	NT
Broccoli	708	1	0.1	0.11 ^	0.010 ^	1.5
Carrots	712	0			0.004 ^	0.60
Cauliflower	532	7	1.3	0.002 - 0.007	0.001 ^	1.5
Celery	708	69	9.7	0.002 - 0.10	0.001 - 0.030	4.0
Grape Juice	148	0			0.006 ^	NT
Green Beans	378	0			0.10 ^	NT
Mushrooms	532	0			0.006 ^	NT
Nectarines	543	0			0.010 ^	0.60
Peaches	285	0			0.010 ^	0.60
Plums	507	0			0.030 ^	0.60
Raspberries	652	0			0.005 - 0.030	NT
Raspberries, Frozen	53	0			0.005 - 0.030	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	709	10	1.4	0.032 - 0.14	0.030 - 0.10	0.4
Winter Squash	187	0			0.018 ^	0.4
TOTAL	**8,120**	**87**				
Fluazifop butyl (herbicide)						
Carrots	712	0			0.001 ^	2.0
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Nectarines	543	0			0.001 ^	0.05
Plums	507	0			0.003 ^	0.05
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**3,913**	**0**				
Fluazinam (fungicide)						
Carrots	712	0			0.010 ^	0.70
TOTAL	**712**	**0**				
Flubendiamide (insecticide)						
Apple Juice	379	0			0.035 ^	1.5
Baby Food - Peas	378	0			0.005 ^	0.05
Celery	346	3	0.9	0.006 - 0.008	0.005 ^	11
Grape Juice	176	0			0.035 ^	1.4
Green Beans	378	5	1.3	0.004 - 0.11	0.003 ^	0.50
Mushrooms	532	0			0.035 ^	NT
Nectarines	541	23	4.3	0.005 - 0.081	0.003 ^	1.6
Plums	453	6	1.3	0.007 - 0.017	0.005 ^	1.6
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	709	3	0.4	0.005 - 0.016	0.005 ^	0.20
Winter Squash	187	0			0.003 ^	0.20
TOTAL	**4,440**	**40**				
Fludioxonil (fungicide)						
Apple Juice	379	0			0.025 ^	5.0
Baby Food - Applesauce	357	5	1.4	0.002 - 0.013	0.001 ^	5.0
Baby Food - Peas	378	0			0.015 ^	0.01
Bananas	708	0			0.015 ^	NT
Broccoli	707	0			0.005 ^	2.0
Carrots	712	0			0.008 - 0.027	0.75
Cauliflower	532	0			0.012 ^	2.0
Celery	708	0			0.010 - 0.012	15
Grape Juice	176	0			0.025 ^	2.0
Green Beans	378	0			0.050 ^	0.4
Mushrooms	532	0			0.025 ^	NT
Nectarines	271	213	78.6	0.033 - 3.4	0.020 ^	5.0
Peaches	285	218	76.5	0.006 - 2.4	0.005 ^	5.0
Plums	507	225	44.4	0.012 - 1.7	0.010 ^	5.0
Raspberries	652	42	6.4	0.011 - 0.56	0.010 - 0.015	5.0
Raspberries, Frozen	53	9	17	0.023 - 0.51	0.010 - 0.015	5.0
Summer Squash	709	1	0.1	0.011 ^	0.010 - 0.060	0.45
Winter Squash	187	0			0.006 ^	0.45
TOTAL	**8,231**	**713**				
Flufenoxuron (insecticide)						
Apple Juice	379	0			0.002 ^	0.50
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.002 ^	0.70
Mushrooms	532	0			0.002 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**2,664**	**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
Flumioxazin (herbicide)						
Apple Juice	379	0			0.010 ^	0.02
Bananas	708	0			0.020 ^	NT
Cauliflower	532	0			0.002 - 0.005	NT
Celery	362	0			0.002 - 0.010	0.02
Grape Juice	176	0			0.010 ^	0.02
Green Beans	378	0			0.080 ^	NT
Nectarines	543	0			0.023 ^	0.02
Raspberries	301	0			0.020 ^	NT
Raspberries, Frozen	43	0			0.020 ^	NT
Summer Squash	346	0			0.18 ^	0.03
TOTAL	**3,768**	**0**				
Fluopicolide (fungicide)						
Apple Juice	379	0			0.015 ^	NT
Bananas	708	0			0.007 ^	NT
Carrots	712	19	2.7	0.010 - 0.025	0.006 - 0.020	0.15
Cauliflower	516	0			0.002 ^	5.0
Celery	708	18	2.5	0.003 - 0.009	0.002 - 0.003	25
Grape Juice	176	0			0.015 ^	2.0
Green Beans (V-1)	378	1	0.3	0.007 ^	0.002 ^	NT
Mushrooms	532	0			0.015 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.007	NT
Raspberries, Frozen	53	0			0.003 - 0.007	NT
Summer Squash	709	24	3.4	0.003 - 0.057	0.003 - 0.010	0.50
Winter Squash	187	5	2.7	0.003 - 0.008	0.002 ^	0.50
TOTAL	**6,217**	**67**				
Fluoxastrobin (fungicide)						
Baby Food - Applesauce	379	0			0.002 ^	NT
Bananas	708	0			0.025 ^	NT
Broccoli	708	0			0.002 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	4.0
Green Beans	378	0			0.001 ^	NT
Peaches	285	0			0.002 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.025	NT
Raspberries, Frozen	53	0			0.003 - 0.025	NT
Summer Squash	709	0			0.003 - 0.005	0.50
Winter Squash	187	0			0.002 ^	0.50
TOTAL	**5,806**	**0**				
Fluquinconazole (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**2,132**	**0**				
Fluridone (herbicide)						
Apple Juice	379	0			0.001 ^	0.1
Baby Food - Applesauce	379	0			0.010 ^	0.1
Baby Food - Peas	378	0			0.005 ^	0.1
Bananas	708	0			0.001 ^	NT
Broccoli	708	0			0.010 ^	0.1
Carrots	712	0			0.001 ^	0.1
Celery	346	0			0.003 ^	0.1
Grape Juice	176	0			0.001 ^	0.1
Green Beans	378	1	0.3	0.003 ^	0.001 ^	0.1
Mushrooms	532	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
Nectarines	543	0			0.001 ^	0.1
Peaches	285	0			0.010 ^	0.1
Plums	507	0			0.003 ^	0.1
Raspberries	652	0			0.001 - 0.003	0.1
Raspberries, Frozen	53	0			0.001 - 0.003	0.1
Summer Squash	709	1	0.1	0.010 ^	0.003 - 0.005	0.1
Winter Squash	187	0			0.002 ^	0.1
TOTAL	**7,632**	**2**				
Flusilazole (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.002 ^	NT
Bananas	708	0			0.008 ^	NT
Broccoli	707	0			0.010 ^	NT
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.008	NT
Raspberries, Frozen	53	0			0.003 - 0.008	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**5,630**	**0**				
Flutolanil (fungicide)						
Apple Juice	379	0			0.003 ^	NT
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.003 ^	NT
Mushrooms	532	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,851**	**0**				
Flutriafol (fungicide)						
Apple Juice	379	0			0.010 ^	0.40
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	1.5
Plums	507	0			0.010 ^	1.5
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	0.30
TOTAL	**2,132**	**0**				
Fluvalinate (insecticide)						
Apple Juice	379	0			0.050 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Baby Food - Peas	378	0			0.30 ^	NT
Bananas	708	0			0.036 ^	NT
Broccoli	707	0			0.005 ^	NT
Carrots	712	0			0.007 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.050 ^	NT
Green Beans	378	0			0.15 ^	NT
Mushrooms	532	0			0.050 ^	NT
Nectarines	543	0			0.007 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.036	NT
Raspberries, Frozen	53	0			0.010 - 0.036	NT
Summer Squash	709	0			0.010 - 0.30	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**7,609**	**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
Fluxapyroxad (fungicide)						
Green Beans	378	0			0.005 ^	2.0
Nectarines	543	5	0.9	0.003 - 0.057	0.002 ^	2.0
TOTAL	**921**	**5**				
Folpet (fungicide)						
Apple Juice	379	0			0.030 ^	5.0
Baby Food - Applesauce	357	0			0.003 ^	5.0
Bananas	240	0			0.030 - 0.15	NT
Mushrooms	504	0			0.030 ^	NT
Nectarines	543	0			0.064 ^	NT
Peaches	285	0			0.015 ^	NT
TOTAL	**2,308**	**0**				
Fonofos (insecticide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**4,029**	**0**				
Forchlorfenuron (plant growth regulator)						
Baby Food - Applesauce	379	0			0.002 ^	NT
Celery	346	0			0.003 ^	NT
Nectarines	543	0			0.001 ^	NT
Peaches	220	0			0.010 ^	NT
Plums	507	0			0.003 ^	0.01
Raspberries (V-3)	351	3	0.9	0.003 - 0.004	0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,906**	**3**				
Formetanate hydrochloride (insecticide)						
Bananas	708	0			0.010 ^	NT
Celery	346	0			0.010 ^	NT
Nectarines	543	0			0.030 ^	0.40
Peaches	285	1	0.4	0.010 ^	0.010 ^	0.40
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 ^	NT
Raspberries, Frozen	53	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**3,644**	**1**				
Fosthiazate (nematicide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,577**	**0**				
Halosulfuron (herbicide)						
Baby Food - Peas	378	0			0.050 ^	0.05
Bananas	708	0			0.099 - 0.50	NT
Green Beans	378	0			0.005 ^	NT
Raspberries	301	0			0.099 - 0.50	0.05
Raspberries, Frozen	43	0			0.099 - 0.50	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
Summer Squash	346	0			0.050 ^	0.5
TOTAL	**2,154**	**0**				
Halosulfuron methyl [2] (herbicide)						
Baby Food - Applesauce	379	0			0.010 ^	0.05
Broccoli	708	0			0.010 ^	NT
Peaches	285	0			0.010 ^	NT
TOTAL	**1,372**	**0**				
Haloxyfop (herbicide)						
Plums	507	0			0.040 ^	NT
Raspberries	351	0			0.040 ^	NT
Raspberries, Frozen	10	0			0.040 ^	NT
TOTAL	**868**	**0**				
Hexaconazole (fungicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.020 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.020 ^	NT
Raspberries	351	0			0.020 ^	NT
Raspberries, Frozen	10	0			0.020 ^	NT
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**3,136**	**0**				
Hexazinone (herbicide)						
Bananas	708	0			0.004 ^	NT
Raspberries	301	0			0.004 ^	NT
Raspberries, Frozen	43	0			0.004 ^	NT
TOTAL	**1,052**	**0**				
Hexythiazox (insecticide, acaricide)						
Apple Juice	379	0			0.002 ^	0.25
Baby Food - Applesauce	379	0			0.010 ^	0.25
Baby Food - Peas	378	0			0.10 ^	NT
Bananas	708	0			0.012 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.002 ^	1.0
Green Beans	378	0			0.30 ^	0.3
Mushrooms	532	0			0.002 ^	NT
Nectarines	543	4	0.7	0.058 ^	0.035 ^	1.0
Peaches	285	15	5.3	0.011 - 0.15	0.010 ^	1.0
Plums	507	2	0.4	0.005 - 0.012	0.005 ^	1.0
Raspberries	652	59	9	0.005 - 0.38	0.005 - 0.012	1.0
Raspberries, Frozen	53	1	1.9	0.069 ^	0.005 - 0.012	1.0
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,574**	**81**				
Hydroprene (insect growth regulator)						
Apple Juice	379	0			0.10 ^	0.2
Baby Food - Peas	378	0			0.080 ^	0.2
Carrots	708	0			0.001 ^	0.2
Cauliflower	532	0			0.002 - 0.005	0.2
Celery	362	0			0.002 ^	0.2
Grape Juice	176	0			0.10 ^	0.2
Green Beans	378	0			0.080 ^	0.2
Nectarines	543	0			0.001 ^	0.2
Summer Squash	346	0			0.080 ^	0.2
TOTAL	**3,802**	**0**				
3-Hydroxycarbofuran (metabolite of Carbofuran)						
Apple Juice	379	0			0.003 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Baby Food - Applesauce	379	0			0.010 ^	NT
Baby Food - Peas	378	0			0.010 ^	NT
Bananas	708	0			0.002 ^	0.1
Broccoli (V-1)	708	1	0.1	0.017 ^	0.010 ^	NT
Carrots	712	0			0.030 ^	NT
Cauliflower	532	0			0.001 - 0.008	NT
Celery	708	0			0.001 - 0.010	NT
Grape Juice	176	0			0.003 ^	0.4
Green Beans (V-1)	378	1	0.3	0.004 ^	0.002 ^	NT
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	0			0.050 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.002 - 0.010	NT
Raspberries, Frozen	53	0			0.002 - 0.010	NT
Summer Squash	709	0			0.010 ^	0.8
Winter Squash	187	0			0.006 ^	0.8
TOTAL	**8,526**	**2**				
5-Hydroxythiabendazole (metabolite of Thiabendazole)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Imazalil (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	257	36.3	0.005 - 0.10	0.005 ^	3.0
Broccoli	690	0			0.010 ^	NT
Cauliflower	532	0			0.009 ^	NT
Celery	708	0			0.001 - 0.030	NT
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
Nectarines (V-22)	543	22	4.1	0.007 - 0.29	0.004 ^	NT
Peaches	285	0			0.010 ^	NT
Plums (V-1)	507	1	0.2	0.013 ^	0.005 ^	NT
Raspberries	652	0			0.005 ^	NT
Raspberries, Frozen	53	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,694**	**280**				
Imazethapyr (herbicide)						
Apple Juice	379	0			0.020 ^	NT
Grape Juice	176	0			0.020 ^	NT
Mushrooms	532	0			0.020 ^	NT
TOTAL	**1,087**	**0**				
Imidacloprid (insecticide)						
Apple Juice	379	2	0.5	0.006 - 0.007	0.003 ^	0.5
Baby Food - Applesauce	379	0			0.010 ^	0.5
Baby Food - Peas	378	0			0.030 ^	4.0
Bananas	708	1	0.1	0.010 ^	0.009 ^	0.50
Broccoli	708	69	9.7	0.010 - 1.5	0.010 ^	3.5
Carrots	712	3	0.4	0.008 ^	0.005 ^	0.40
Cauliflower	532	212	39.8	0.002 - 0.36	0.001 ^	3.5
Celery	708	38	5.4	0.002 - 0.046	0.001 - 0.010	6.0
Grape Juice	176	17	9.7	0.004 - 0.041	0.003 ^	1.5
Green Beans	378	2	0.5	0.024 - 0.025	0.005 ^	4.0
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	10	1.8	0.017 - 0.045	0.010 ^	3.0
Peaches	285	14	4.9	0.011 - 0.29	0.010 ^	3.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	507	1	0.2	0.012 ^	0.010 ^	3.0
Raspberries	652	9	1.4	0.010 - 0.046	0.009 - 0.010	2.5
Raspberries, Frozen	53	1	1.9	0.089 ^	0.009 - 0.010	2.5
Summer Squash	709	110	15.5	0.010 - 0.19	0.010 - 0.030	0.5
Winter Squash	187	42	22.5	0.010 - 0.13	0.006 ^	0.5
TOTAL	**8,526**	**531**				
Imidacloprid urea (metabolite of Imidacloprid)						
Bananas	708	0			0.022 ^	0.50
Raspberries	301	0			0.022 ^	2.5
Raspberries, Frozen	43	0			0.022 ^	2.5
TOTAL	**1,052**	**0**				
Imiprothrin (insecticide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Peas	378	0			0.040 ^	NT
Bananas	708	0			0.090 ^	NT
Carrots	712	0			0.009 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	0			0.030 ^	NT
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.009 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.090	NT
Raspberries, Frozen	53	0			0.010 - 0.090	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**5,914**	**0**				
Indaziflam (herbicide)						
Apple Juice	379	0			0.001 ^	0.01
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.001 ^	0.01
Nectarines	543	1	0.2	0.003 ^	0.002 ^	0.01
Plums	507	0			0.003 ^	0.01
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,862**	**1**				
Indoxacarb (insecticide)						
Apple Juice	379	0			0.020 ^	1.0
Baby Food - Applesauce	379	0			0.010 ^	1.0
Bananas	708	0			0.021 ^	NT
Broccoli	708	13	1.8	0.011 - 0.065	0.010 ^	12
Celery	346	0			0.010 ^	14
Grape Juice	176	0			0.020 ^	2.0
Green Beans	378	0			0.050 ^	NT
Mushrooms	532	0			0.020 ^	NT
Nectarines	541	98	18.1	0.003 - 0.083	0.002 ^	0.90
Peaches	285	19	6.7	0.010 - 0.035	0.010 ^	0.90
Plums	507	0			0.010 ^	0.90
Raspberries	652	0			0.010 - 0.021	NT
Raspberries, Frozen	53	0			0.010 - 0.021	NT
Summer Squash	709	2	0.3	0.012 - 0.021	0.005 - 0.010	0.60
Winter Squash	187	0			0.006 ^	0.60
TOTAL	**6,540**	**132**				
Ipconazole (fungicide)						
Baby Food - Peas	378	0			0.020 ^	NT
Green Beans	378	0			0.002 ^	NT
TOTAL	**756**	**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
Iprodione (fungicide)						
Apple Juice	379	0			0.040 ^	NT
Baby Food - Applesauce (V-1)	357	1	0.3	0.002 ^	0.001 ^	NT
Bananas	708	0			0.022 ^	NT
Broccoli	707	0			0.005 ^	25.0
Carrots	712	58	8.1	0.033 - 1.4	0.020 - 0.067	5.0
Cauliflower	532	0			0.009 ^	NT
Celery (V-1)	376	1	0.3	0.006 ^	0.005 - 0.009	NT
Grape Juice	146	0			0.040 ^	60.0
Green Beans	378	0			0.15 ^	2.0
Mushrooms	532	0			0.040 ^	NT
Nectarines	543	221	40.7	0.008 - 7.2	0.005 ^	20.0
Peaches	285	19	6.7	0.005 - 1.8	0.005 ^	20.0
Plums	507	262	51.7	0.005 - 6.4	0.005 ^	20.0
Raspberries	652	20	3.1	0.007 - 2.9	0.005 - 0.022	15.0
Raspberries, Frozen	53	8	15.1	0.023 - 0.44	0.005 - 0.022	15.0
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**7,417**	**590**				
Iprovalicarb (fungicide)						
Bananas	708	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**2,629**	**0**				
Isofenphos (insecticide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**1,764**	**0**				
Isoprocarb (insecticide)						
Celery	346	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**1,764**	**0**				
Isoproturon (herbicide)						
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,577**	**0**				
Kresoxim-methyl (fungicide)						
Apple Juice	379	0			0.010 ^	0.5
Bananas	708	0			0.008 ^	NT
Cauliflower	532	0			0.003 - 0.010	NT
Celery	708	0			0.002 - 0.010	NT
Grape Juice	176	0			0.010 ^	1.0
Green Beans	378	0			0.020 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.008 - 0.010	NT
Raspberries, Frozen	53	0			0.008 - 0.010	NT
Summer Squash	709	0			0.010 - 0.025	0.40

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Winter Squash	187	0			0.006 ^	0.40
TOTAL	**4,989**	**0**				
Lactofen (herbicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Lenacil (herbicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**2,948**	**0**				
Leptophos oxygen analog (insecticide metabolite)						
Celery	346	0			0.020 ^	NT
Plums	507	0			0.020 ^	NT
Raspberries	351	0			0.020 ^	NT
Raspberries, Frozen	10	0			0.020 ^	NT
Summer Squash	363	0			0.020 ^	NT
Winter Squash	187	0			0.012 ^	NT
TOTAL	**1,764**	**0**				
Lindane - BHC gamma (insecticide)						
Apple Juice	379	0			0.013 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.15 ^	0.5 AL
Bananas	708	0			0.044 ^	NT
Carrots	712	0			0.001 ^	0.5 AL
Cauliflower	532	0			0.001 ^	NT
Celery	376	0			0.001 - 0.003	NT
Grape Juice	176	0			0.013 ^	NT
Green Beans	378	0			0.075 ^	0.5 AL
Mushrooms	532	0			0.013 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.044	0.5 AL
Raspberries, Frozen	53	0			0.003 - 0.044	0.5 AL
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**6,597**	**0**				
Linuron (herbicide)						
Apple Juice	379	0			0.003 ^	NT
Baby Food - Applesauce	357	0			0.004 ^	NT
Bananas	708	0			0.007 ^	NT
Broccoli	688	0			0.019 ^	NT
Carrots	712	152	21.3	0.033 - 0.52	0.020 ^	1.0
Cauliflower	532	0			0.003 ^	NT
Celery	708	107	15.1	0.005 - 0.090	0.003 - 0.010	0.5
Grape Juice	176	0			0.003 ^	NT
Mushrooms	532	0			0.003 ^	NT
Peaches	285	0			0.019 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.007 - 0.010	NT
Raspberries, Frozen	53	0			0.007 - 0.010	NT
Summer Squash	363	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
Winter Squash	187	0			0.006 ^	NT
TOTAL	**6,839**	**259**				
Lufenuron (insecticide)						
Apple Juice	379	0			0.020 ^	NT
Bananas	708	0			0.010 ^	NT
Grape Juice	176	0			0.020 ^	NT
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**1,607**	**0**				
Malathion (insecticide)						
Apple Juice	379	0			0.002 ^	8
Baby Food - Applesauce	379	0			0.010 ^	8
Baby Food - Peas	378	0			0.010 ^	8
Bananas	708	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	8
Carrots	712	0			0.001 ^	8
Cauliflower	532	0			0.001 ^	8
Celery	708	75	10.6	0.002 - 0.17	0.001 - 0.005	8
Grape Juice	176	0			0.002 ^	8
Green Beans	378	0			0.002 ^	8
Mushrooms	532	0			0.002 ^	8
Nectarines	543	0			0.002 ^	8
Peaches	285	0			0.010 ^	8
Plums	507	0			0.005 ^	8
Raspberries	652	42	6.4	0.005 - 0.16	0.005 - 0.010	8
Raspberries, Frozen	53	1	1.9	0.010 ^	0.005 - 0.010	8
Summer Squash	709	0			0.005 - 0.010	8
Winter Squash	187	0			0.003 ^	8
TOTAL	**8,526**	**118**				
Malathion oxygen analog (metabolite of Malathion)						
Apple Juice	379	0			0.002 ^	8
Baby Food - Applesauce	379	0			0.010 ^	8
Baby Food - Peas	378	0			0.005 ^	8
Bananas	708	0			0.002 ^	NT
Broccoli	708	0			0.010 ^	8
Carrots	712	0			0.001 ^	8
Cauliflower	532	0			0.003 ^	8
Celery	708	0			0.003 ^	8
Grape Juice	176	0			0.002 ^	8
Green Beans	378	0			0.001 ^	8
Mushrooms	532	0			0.002 ^	8
Nectarines	543	0			0.002 ^	8
Peaches	285	0			0.010 ^	8
Plums	507	0			0.003 ^	8
Raspberries	652	1	0.2	0.003 ^	0.002 - 0.003	8
Raspberries, Frozen	53	0			0.002 - 0.003	8
Summer Squash	709	0			0.003 - 0.005	8
Winter Squash	187	0			0.002 ^	8
TOTAL	**8,526**	**1**				
Mandipropamid (fungicide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	379	0			0.005 ^	NT
Bananas	708	0			0.010 ^	NT
Broccoli	708	17	2.4	0.007 - 0.23	0.005 ^	3
Cauliflower	516	0			0.005 - 0.015	3
Celery	708	5	0.7	0.008 - 0.21	0.005 - 0.030	20
Grape Juice	148	2	1.4	0.003 - 0.004	0.002 ^	1.4
Green Beans	378	3	0.8	0.002 - 0.012	0.001 ^	0.90
Mushrooms	532	0			0.002 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 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
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	709	4	0.6	0.005 - 0.010	0.005 ^	0.6
Winter Squash	187	0			0.003 ^	0.6
TOTAL	**6,849**	**31**				
Mepanipyrim (fungicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Mesotrione (herbicide)						
Plums	507	0			0.040 ^	NT
TOTAL	**507**	**0**				
Metaflumizone (insecticide)						
Bananas	708	0			0.010 ^	NT
Celery	346	0			0.020 ^	NT
Plums	507	0			0.020 ^	NT
Raspberries	652	0			0.010 - 0.020	NT
Raspberries, Frozen	53	0			0.010 - 0.020	NT
Summer Squash	363	0			0.020 ^	NT
TOTAL	**2,629**	**0**				
Metalaxyl/Mefenoxam [3] (fungicide)						
Apple Juice	379	0			0.001 ^	0.2
Baby Food - Applesauce	379	0			0.001 ^	0.2
Baby Food - Peas	378	0			0.025 ^	0.2
Bananas	708	0			0.030 ^	NT
Broccoli	707	6	0.8	0.006 - 0.046	0.005 ^	2.0
Carrots	711	77	10.8	0.008 - 0.035	0.005 ^	0.5
Cauliflower	532	4	0.8	0.002 - 0.007	0.001 ^	1.0
Celery	708	1	0.1	0.002 ^	0.001 - 0.005	5.0
Grape Juice	148	1	0.7	0.002 ^	0.001 ^	2.0
Green Beans	378	19	5	0.001 - 0.018	0.001 ^	0.2
Mushrooms	532	0			0.001 ^	NT
Nectarines	543	0			0.001 ^	1.0
Peaches	285	0			0.005 ^	1.0
Plums	507	0			0.003 ^	1.0
Raspberries	652	0			0.003 - 0.030	0.70
Raspberries, Frozen	53	0			0.003 - 0.030	0.70
Summer Squash	709	30	4.2	0.003 - 0.40	0.003 - 0.050	1.0
Winter Squash	187	17	9.1	0.003 - 0.057	0.002 ^	1.0
TOTAL	**8,496**	**155**				
Metaldehyde (molluscicide)						
Bananas	708	0			0.22 ^	NT
Raspberries	301	0			0.22 ^	0.15
Raspberries, Frozen	43	0			0.22 ^	0.15
TOTAL	**1,052**	**0**				
Metconazole (fungicide)						
Celery	346	0			0.010 ^	NT
Nectarines	543	0			0.002 ^	0.20
Plums	507	0			0.010 ^	0.20
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,307**	**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
Methamidophos (insecticide) (also a metabolite of Acephate)						
Apple Juice	379	0			0.005 ^	0.02
Baby Food - Applesauce	379	0			0.010 ^	0.02
Baby Food - Peas	378	0			0.10 ^	0.02
Bananas	708	0			0.008 ^	0.02
Broccoli	708	0			0.050 ^	1.0
Carrots	243	0			0.017 ^	0.02
Cauliflower	532	18	3.4	0.002 - 0.046	0.001 ^	0.5 [4]
Celery	708	65	9.2	0.002 - 0.031	0.001 - 0.005	1 [5]
Grape Juice	148	0			0.005 ^	0.02
Green Beans	378	100	26.5	0.020 - 0.86	0.020 ^	1 [6]
Mushrooms	532	0			0.005 ^	0.02
Nectarines	271	0			0.025 ^	0.02
Peaches	285	0			0.050 ^	0.02
Plums	507	0			0.005 ^	0.02
Raspberries	652	0			0.005 - 0.008	0.02
Raspberries, Frozen	53	0			0.005 - 0.008	0.02
Summer Squash	709	0			0.005 - 0.10	0.02
Winter Squash	187	3	1.6	0.005 - 0.025	0.003 ^	0.02
TOTAL	**7,757**	**186**				
Methidathion (insecticide)						
Apple Juice	379	0			0.010 ^	0.05
Baby Food - Applesauce	379	0			0.010 ^	0.05
Bananas	708	0			0.006 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.003	NT
Grape Juice	176	0			0.010 ^	NT
Nectarines	543	0			0.001 ^	0.05
Peaches	285	0			0.010 ^	0.05
Plums	507	0			0.003 ^	0.05
Raspberries	652	0			0.003 - 0.006	NT
Raspberries, Frozen	53	0			0.003 - 0.006	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**6,180**	**0**				
Methidathion oxygen analog (metabolite of Methidathion)						
Cauliflower	532	0			0.003 ^	NT
Celery	332	0			0.010 ^	NT
TOTAL	**864**	**0**				
Methiocarb (insecticide)						
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.010	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,658**	**0**				
Methiocarb sulfone (metabolite of Methiocarb)						
Apple Juice	379	0			0.001 ^	NT
Grape Juice	176	0			0.001 ^	NT
TOTAL	**555**	**0**				
Methiocarb sulfoxide (metabolite of Methiocarb)						
Apple Juice	379	0			0.001 ^	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.001 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**2,132**	**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
Methomyl (insecticide)						
Apple Juice	379	0			0.010 ^	1
Baby Food - Applesauce	379	0			0.010 ^	1
Baby Food - Peas	378	0			0.005 ^	5
Bananas	708	0			0.013 ^	NT
Broccoli	708	0			0.010 ^	3
Carrots	712	0			0.004 ^	0.2
Cauliflower	532	5	0.9	0.004 - 0.042	0.002 ^	2
Celery	708	20	2.8	0.004 - 0.19	0.002 - 0.020	3
Grape Juice	146	0			0.030 ^	5
Green Beans	378	10	2.6	0.002 - 0.17	0.001 ^	2
Mushrooms	501	0			0.010 - 0.030	NT
Nectarines	543	21	3.9	0.005 - 0.28	0.003 ^	5
Peaches	285	1	0.4	0.042 ^	0.010 ^	5
Plums	507	0			0.020 ^	NT
Raspberries	652	0			0.013 - 0.020	NT
Raspberries, Frozen	53	0			0.013 - 0.020	NT
Summer Squash	709	6	0.8	0.007 - 0.043	0.005 - 0.020	0.2
Winter Squash	187	0			0.012 ^	0.2
TOTAL	**8,465**	**63**				
Methoprene (insect growth regulator)						
Baby Food - Peas	378	0			0.20 ^	EX
Cauliflower	516	0			0.015 ^	EX
Celery	362	0			0.015 ^	EX
Green Beans	378	0			0.40 ^	EX
TOTAL	**1,634**	**0**				
Methoxychlor Total (insecticide)						
Bananas	708	0			0.008 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	362	0			0.001 ^	NT
Raspberries	301	0			0.008 ^	NT
Raspberries, Frozen	43	0			0.008 ^	NT
TOTAL	**1,946**	**0**				
Methoxychlor olefin (metabolite of Methoxychlor)						
Cauliflower	532	0			0.001 ^	NT
Celery	362	0			0.001 ^	NT
TOTAL	**894**	**0**				
Methoxychlor p,p' (isomer of Methoxychlor)						
Baby Food - Applesauce	357	0			0.001 ^	NT
Broccoli	665	0			0.005 ^	NT
Celery	317	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.009 ^	NT
TOTAL	**3,042**	**0**				
Methoxyfenozide (insecticide)						
Apple Juice	379	2	0.5	0.003 - 0.004	0.003 ^	1.5
Baby Food - Applesauce	379	1	0.3	0.031 ^	0.010 ^	1.5
Baby Food - Peas	378	0			0.010 ^	0.2
Bananas	708	0			0.006 ^	NT
Broccoli	708	0			0.010 ^	7.0
Carrots	712	5	0.7	0.003 ^	0.002 ^	0.90
Cauliflower	532	0			0.001 ^	7.0
Celery	708	111	15.7	0.002 - 0.096	0.001 - 0.005	25
Grape Juice	176	17	9.7	0.003 - 0.008	0.003 ^	1.0
Green Beans	378	4	1.1	0.003 - 0.020	0.002 ^	1.5
Mushrooms	532	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
Nectarines	543	113	20.8	0.003 - 0.18	0.002 ^	3.0
Peaches	285	53	18.6	0.010 - 0.11	0.010 ^	3.0
Plums	507	30	5.9	0.005 - 0.059	0.005 ^	0.30
Raspberries (V-1)	652	1	0.2	0.026 ^	0.005 - 0.006	NT
Raspberries, Frozen	53	0			0.005 - 0.006	NT
Summer Squash	709	1	0.1	0.007 ^	0.005 - 0.010	0.3
Winter Squash	187	9	4.8	0.005 - 0.013	0.003 ^	0.3
TOTAL	**8,526**	**347**				
Metolachlor (herbicide)						
Apple Juice	379	0			0.001 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.005 ^	0.30
Bananas	708	0			0.007 ^	NT
Broccoli	707	0			0.005 ^	0.60
Carrots	712	5	0.7	0.002 ^	0.001 ^	0.40
Cauliflower	532	0			0.001 ^	0.60
Celery	708	7	1	0.002 - 0.004	0.001 - 0.003	0.10
Grape Juice	176	0			0.001 ^	NT
Green Beans	378	0			0.005 ^	0.30
Mushrooms	532	0			0.001 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.007	0.10
Raspberries, Frozen	53	0			0.003 - 0.007	0.10
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.003 ^	0.10
TOTAL	**7,636**	**12**				
Metribuzin (herbicide)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Peas	378	0			0.20 ^	0.1
Bananas	708	0			0.004 ^	NT
Carrots	712	1	0.1	0.012 ^	0.002 ^	0.3
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.005	NT
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.002 ^	NT
Mushrooms	532	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.004 - 0.005	NT
Raspberries, Frozen	53	0			0.004 - 0.005	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,265**	**1**				
Mevinphos (insecticide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Baby Food - Peas	378	0			0.020 ^	NT
Bananas	708	0			0.006 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	708	0			0.002 - 0.005	NT
Grape Juice	176	0			0.002 ^	NT
Green Beans	378	0			0.002 ^	NT
Mushrooms	532	0			0.002 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.006	NT
Raspberries, Frozen	53	0			0.003 - 0.006	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**6,370**	**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
MGK-264 (insecticide)						
Baby Food - Peas	378	0			0.040 ^	5
Bananas	708	0			0.030 ^	5
Carrots	712	0			0.001 ^	5
Celery	346	0			0.003 ^	5
Grape Juice	176	0			0.10 ^	5
Green Beans	378	0			0.020 ^	5
Nectarines	543	0			0.001 ^	5
Plums	507	1	0.2	0.005 ^	0.003 ^	5
Raspberries	652	0			0.003 - 0.030	5
Raspberries, Frozen	53	0			0.003 - 0.030	5
Summer Squash	709	0			0.003 - 0.040	5
Winter Squash	187	0			0.003 ^	5
TOTAL	**5,349**	**1**				
Mirex (insecticide)						
Grape Juice	176	0			0.001 ^	NT
TOTAL	**176**	**0**				
Monocrotophos (insecticide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.004 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.004 - 0.005	NT
Raspberries, Frozen	53	0			0.004 - 0.005	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**4,188**	**0**				
Myclobutanil (fungicide)						
Apple Juice	379	0			0.003 ^	0.5
Baby Food - Applesauce	379	36	9.5	0.002 ^	0.001 ^	0.5
Baby Food - Peas	378	0			0.010 ^	0.03
Bananas	708	116	16.4	0.002 - 0.11	0.001 ^	4.0
Broccoli	707	0			0.005 ^	0.03
Carrots	712	7	1	0.003 - 0.011	0.002 ^	0.03
Cauliflower	532	0			0.001 ^	0.03
Celery (X-1)	708	15	2.1	0.002 - 0.083	0.001 - 0.010	0.03
Grape Juice	176	0			0.003 ^	1.0
Green Beans	378	20	5.3	0.006 - 0.089	0.005 ^	1.0
Mushrooms	532	0			0.003 ^	NT
Nectarines	539	34	6.3	0.003 - 0.078	0.002 ^	2.0
Peaches	285	10	3.5	0.005 - 0.072	0.005 ^	2.0
Plums	507	0			0.010 ^	2.0
Raspberries	652	97	14.9	0.001 - 0.21	0.001 - 0.010	2.0
Raspberries, Frozen	53	1	1.9	0.037 ^	0.001 - 0.010	2.0
Summer Squash	709	14	2	0.011 - 0.081	0.010 - 0.020	0.20
Winter Squash	187	1	0.5	0.010 ^	0.006 ^	0.20
TOTAL	**8,521**	**351**				
Naled (insecticide)						
Apple Juice	379	0			0.020 ^	0.5
Carrots	712	0			0.025 ^	0.5
Grape Juice	148	0			0.020 ^	0.5
Mushrooms	503	0			0.020 ^	0.5
Nectarines	543	0			0.015 ^	0.5
TOTAL	**2,285**	**0**				
1-Naphthol (metabolite of Carbaryl)						
Apple Juice	379	0			0.015 ^	12
Baby Food - Peas	378	0			0.010 ^	10
Carrots	712	0			0.017 - 0.057	2.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Green Beans	347	0			0.060 ^	10
Mushrooms	503	0			0.015 ^	NT
Nectarines	543	4	0.7	0.025 - 2.1	0.015 ^	10
Summer Squash	346	0			0.020 ^	3.0
TOTAL	**3,208**	**4**				
Napropamide (herbicide)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.020 ^	NT
Broccoli	708	0			0.010 ^	0.1
Cauliflower	532	0			0.002 ^	0.1
Celery	708	0			0.002 - 0.005	NT
Grape Juice	176	0			0.005 ^	0.1
Mushrooms	532	0			0.005 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.020	0.1
Raspberries, Frozen	53	0			0.005 - 0.020	0.1
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.008 ^	NT
TOTAL	**6,169**	**0**				
Nitrofen (herbicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Norflurazon (herbicide)						
Apple Juice	379	0			0.002 ^	0.1
Baby Food - Applesauce	379	0			0.010 ^	0.1
Bananas	708	0			0.005 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	376	0			0.001 - 0.010	NT
Grape Juice	176	0			0.002 ^	0.1
Mushrooms	532	0			0.002 ^	NT
Nectarines	543	0			0.001 ^	0.1
Peaches	285	0			0.010 ^	0.1
Plums	507	0			0.010 ^	0.1
Raspberries	652	0			0.005 - 0.010	0.2
Raspberries, Frozen	53	0			0.005 - 0.010	0.2
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**5,848**	**0**				
Norflurazon desmethyl (metabolite of Norflurazon)						
Apple Juice	379	0			0.005 ^	0.1
Baby Food - Applesauce	379	0			0.010 ^	0.1
Bananas	708	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	376	0			0.001 - 0.010	NT
Grape Juice	176	0			0.005 ^	0.1
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	1	0.2	0.008 ^	0.005 ^	0.1
Peaches	285	0			0.010 ^	0.1
Plums	507	0			0.010 ^	0.1
Raspberries	652	0			0.010 ^	0.2
Raspberries, Frozen	53	0			0.010 ^	0.2
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**5,848**	**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
Novaluron (insecticide)						
Baby Food - Applesauce	379	0			0.010 ^	2.0
Baby Food - Peas	378	0			0.050 ^	0.01
Bananas	708	0			0.010 ^	0.01
Broccoli	708	0			0.010 ^	0.50
Carrots	712	0			0.005 ^	0.01
Cauliflower	502	0			0.001 ^	0.50
Celery	692	0			0.001 - 0.080	0.01
Green Beans	378	0			0.050 ^	0.60
Nectarines	543	0			0.001 ^	1.9
Peaches	285	0			0.010 ^	1.9
Plums	507	0			0.080 ^	1.9
Raspberries	652	0			0.010 - 0.080	0.01
Raspberries, Frozen	53	0			0.010 - 0.080	0.01
Summer Squash	709	0			0.050 - 0.080	0.15
Winter Squash	187	0			0.048 ^	0.15
TOTAL	**7,393**	**0**				
Omethoate (insecticide) (also a metabolite of Dimethoate)						
Apple Juice	379	0			0.020 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Baby Food - Peas	378	0			0.015 ^	2.0
Bananas	708	0			0.019 ^	NT
Broccoli	708	4	0.6	0.018 - 0.15	0.010 ^	2.0
Cauliflower	532	0			0.002 ^	2.0
Celery	708	52	7.3	0.004 - 0.049	0.002 - 0.008	2.0
Grape Juice	176	0			0.020 ^	NT
Green Beans	378	15	4	0.007 - 0.081	0.006 ^	2.0
Mushrooms	532	0			0.020 ^	NT
Nectarines	543	0			0.060 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.019	NT
Raspberries, Frozen	53	0			0.005 - 0.019	NT
Summer Squash	709	0			0.005 - 0.015	NT
Winter Squash (V-1)	187	1	0.5	0.052 ^	0.003 ^	NT
TOTAL	**7,814**	**72**				
Oryzalin (herbicide)						
Apple Juice	379	0			0.020 ^	0.05
Baby Food - Applesauce	379	0			0.020 ^	0.05
Bananas	708	0			0.050 ^	NT
Broccoli	708	0			0.10 ^	NT
Grape Juice	176	0			0.020 ^	0.05
Nectarines	543	0			0.010 ^	0.05
Peaches	285	0			0.020 ^	0.05
Raspberries	301	0			0.050 ^	0.05
Raspberries, Frozen	43	0			0.050 ^	0.05
TOTAL	**3,522**	**0**				
Oxadiazon (herbicide)						
Celery	346	0			0.003 ^	NT
Grape Juice	146	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**1,723**	**0**				
Oxadixyl (fungicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	693	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	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
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**4,015**	**0**				
Oxamyl (insecticide)						
Apple Juice	379	0			0.003 ^	2
Baby Food - Applesauce	379	0			0.010 ^	2
Bananas	708	0			0.008 ^	0.3
Broccoli	708	0			0.010 ^	NT
Carrots	712	0			0.029 ^	0.1
Cauliflower	532	0			0.006 ^	NT
Celery	708	40	5.6	0.003 - 0.071	0.002 - 0.012	10.0
Grape Juice	176	0			0.003 ^	NT
Green Beans (V-1)	378	1	0.3	0.002 ^	0.002 ^	NT
Mushrooms	532	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.008 - 0.010	NT
Raspberries, Frozen	53	0			0.008 - 0.010	NT
Summer Squash	709	35	4.9	0.011 - 0.46	0.010 ^	2.0
Winter Squash	187	0			0.006 ^	2.0
TOTAL	**7,605**	**76**				
Oxamyl oxime (metabolite of Oxamyl)						
Apple Juice	379	0			0.003 ^	2
Baby Food - Applesauce	379	1	0.3	0.010 ^	0.010 ^	2
Bananas	708	4	0.6	0.022 - 0.032	0.020 ^	0.3
Broccoli	708	0			0.010 ^	NT
Celery	346	5	1.4	0.021 - 0.029	0.020 ^	10.0
Grape Juice	118	0			0.003 ^	NT
Green Beans	378	0			0.050 ^	NT
Mushrooms	532	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.020 ^	NT
Raspberries	652	0			0.020 ^	NT
Raspberries, Frozen	53	0			0.020 ^	NT
Summer Squash	709	12	1.7	0.022 - 0.13	0.020 - 0.060	2.0
Winter Squash	187	0			0.012 ^	2.0
TOTAL	**5,941**	**22**				
Oxydemeton methyl (insecticide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.005 ^	NT
Broccoli	708	0			0.010 ^	1.0
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.002 ^	NT
Green Beans	378	0			0.002 ^	NT
Mushrooms	532	0			0.002 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.005	NT
Raspberries, Frozen	53	0			0.003 - 0.005	NT
Summer Squash	709	0			0.003 - 0.010	1.0
TOTAL	**5,812**	**0**				
Oxydemeton methyl sulfone (metabolite of Oxydemeton methyl)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	1.0
Cauliflower	532	0			0.012 ^	1.0
Celery	708	0			0.005 - 0.012	NT
Grape Juice	176	0			0.002 ^	NT
Green Beans	378	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
Mushrooms	532	0			0.002 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	709	0			0.005 - 0.010	1.0
Winter Squash	187	0			0.003 ^	0.3
TOTAL	**5,841**	**0**				
Oxyfluorfen (herbicide)						
Apple Juice	379	0			0.050 ^	0.05
Baby Food - Applesauce	379	0			0.001 ^	0.05
Broccoli	707	0			0.005 ^	0.05
Cauliflower	532	0			0.001 ^	0.05
Celery	708	0			0.001 - 0.010	NT
Grape Juice	176	0			0.050 ^	0.05
Nectarines	543	0			0.006 ^	0.05
Peaches	285	0			0.005 ^	0.05
Plums	507	0			0.010 ^	0.05
Raspberries	351	0			0.010 ^	0.05
Raspberries, Frozen	10	0			0.010 ^	0.05
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.008 ^	NT
TOTAL	**5,127**	**0**				
Paclobutrazol (plant growth regulator)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.007 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
Nectarines	543	0			0.025 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.007 - 0.010	NT
Raspberries, Frozen	53	0			0.007 - 0.010	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**5,098**	**0**				
Parathion (insecticide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.060 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.003 - 0.010	NT
Grape Juice	176	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.060	NT
Raspberries, Frozen	53	0			0.005 - 0.060	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,257**	**0**				
Parathion methyl (insecticide)						
Apple Juice	379	0			0.010 ^	NT [f]
Baby Food - Applesauce	379	0			0.001 ^	NT [f]
Bananas	708	0			0.016 ^	NT
Broccoli	707	0			0.005 ^	NT [f]
Cauliflower	532	0			0.008 - 0.032	NT [f]
Celery	708	0			0.002 - 0.016	NT [f]
Grape Juice	176	0			0.010 ^	NT [f]
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.005 ^	NT [f]

Pesticide / 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	507	0			0.005 ^	NT '
Raspberries	652	0			0.005 - 0.016	NT
Raspberries, Frozen	53	0			0.005 - 0.016	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.009 ^	NT
TOTAL	**6,168**	**0**				
Parathion methyl oxygen analog (metabolite of Parathion methyl)						
Apple Juice	379	0			0.020 ^	NT '
Cauliflower	532	0			0.005 ^	NT '
Celery	708	0			0.005 - 0.010	NT '
Grape Juice	176	0			0.020 ^	NT '
Mushrooms	532	0			0.020 ^	NT
Plums	507	0			0.010 ^	NT '
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**3,745**	**0**				
Parathion oxygen analog (metabolite of Parathion)						
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.003 - 0.010	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,658**	**0**				
Pebulate (herbicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
TOTAL	**1,371**	**0**				
Penconazole (fungicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.006 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Nectarines (V-1)	543	1	0.2	0.026 ^	0.003 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.006 - 0.010	NT
Raspberries, Frozen	53	0			0.006 - 0.010	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**4,543**	**1**				
Pencycuron (fungicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.005 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 ^	NT
Raspberries, Frozen	53	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**4,001**	**0**				
Pendimethalin (herbicide)						
Apple Juice	379	0			0.10 ^	0.10
Baby Food - Applesauce	379	0			0.001 ^	0.10
Baby Food - Peas	378	0			0.040 ^	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
Bananas	708	0			0.032 ^	NT
Broccoli	707	4	0.6	0.005 - 0.012	0.005 ^	0.1
Carrots	712	30	4.2	0.010 ^	0.006 ^	0.5
Cauliflower	532	0			0.001 ^	0.1
Celery (V-5)	708	5	0.7	0.002 - 0.007	0.001 - 0.005	NT
Grape Juice	176	0			0.10 ^	0.1
Green Beans	378	0			0.040 ^	0.10
Mushrooms	532	0			0.10 ^	NT
Nectarines	543	0			0.006 ^	0.10
Peaches	285	0			0.005 ^	0.10
Plums	507	0			0.005 ^	0.10
Raspberries	652	0			0.005 - 0.032	NT
Raspberries, Frozen	53	0			0.005 - 0.032	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**8,179**	**39**				
Penflufen (fungicide)						
Green Beans	378	0			0.001 ^	0.01
TOTAL	**378**	**0**				
Pentachloroaniline - PCA (metabolite of Quintozene)						
Apple Juice	379	0			0.004 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	0.1
Carrots (V-35)	712	35	4.9	0.003 - 0.010	0.002 ^	NT
Cauliflower	532	0			0.001 ^	0.1
Celery (V-1)	708	1	0.1	0.002 ^	0.001 - 0.003	NT
Grape Juice	176	0			0.004 ^	NT
Green Beans	378	0			0.060 ^	0.1
Mushrooms	532	0			0.004 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash (V-11)	709	11	1.6	0.003 - 0.018	0.003 - 0.12	NT
TOTAL	**6,365**	**47**				
Pentachlorobenzene - PCB (metabolite of Quintozene)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	0.1
Carrots (V-1)	712	1	0.1	0.008 ^	0.001 ^	NT
Cauliflower	514	0			0.008 ^	0.1
Celery	708	0			0.005 - 0.008	NT
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.015 ^	0.1
Mushrooms	532	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	709	0			0.005 - 0.010	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**6,512**	**1**				
Pentachlorophenyl methyl sulfide (metabolite of Quintozene)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	0.1
Carrots	712	0			0.002 ^	NT
Celery	362	0			0.001 - 0.003	NT
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.025 ^	0.1
Mushrooms	532	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	346	0			0.050 ^	NT
TOTAL	**4,256**	**0**				
Penthiopyrad (fungicide)						
Carrots	712	32	4.5	0.003 - 0.029	0.002 ^	3.0
Celery	346	9	2.6	0.004 - 0.13	0.003 ^	30
Green Beans	378	18	4.8	0.002 - 0.19	0.001 ^	4.0
Nectarines	543	3	0.6	0.002 - 0.044	0.001 ^	4.0
Plums	507	0			0.003 ^	4.0
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	709	5	0.7	0.003 - 0.007	0.003 - 0.005	0.60
TOTAL	**3,556**	**67**				
Permethrin Total (insecticide)						
Baby Food - Applesauce	379	0			0.002 ^	0.05
Baby Food - Peas	378	0			0.040 ^	NT
Broccoli	707	12	1.7	0.011 - 0.95	0.010 ^	2.0
Carrots	712	0			0.004 ^	NT
Green Beans	378	0			0.040 ^	NT
Nectarines (V-1)	543	1	0.2	0.21 ^	0.004 ^	NT
Peaches	285	22	7.7	0.015 - 0.68	0.010 ^	1.0
Summer Squash	346	0			0.040 ^	1.5
TOTAL	**3,728**	**35**				
Permethrin cis (isomer of Permethrin)						
Apple Juice	379	0			0.010 ^	0.05
Bananas	708	0			0.010 ^	NT
Cauliflower	532	2	0.4	0.002 ^	0.001 ^	0.5
Celery	708	303	42.8	0.002 - 0.24	0.001 - 0.005	5.0
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	11	2.1	0.010 - 0.11	0.010 ^	5.0
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	1	0.3	0.006 ^	0.005 ^	1.5
Winter Squash	187	1	0.5	0.010 ^	0.006 ^	1.5
TOTAL	**4,797**	**318**				
Permethrin trans (isomer of Permethrin)						
Apple Juice	379	0			0.010 ^	0.05
Bananas	708	0			0.010 ^	NT
Cauliflower	532	2	0.4	0.002 ^	0.001 ^	0.5
Celery	708	283	40	0.002 - 0.27	0.001 - 0.005	5.0
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	12	2.3	0.010 - 0.14	0.010 ^	5.0
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	0			0.005 ^	1.5
Winter Squash	187	2	1.1	0.010 ^	0.006 ^	1.5
TOTAL	**4,797**	**299**				
Phenothrin (insecticide)						
Apple Juice	379	0			0.050 ^	0.01
Baby Food - Applesauce	379	0			0.005 ^	0.01
Baby Food - Peas	378	0			0.015 ^	0.01
Bananas	708	0			0.018 ^	0.01
Broccoli	707	0			0.005 ^	0.01
Carrots	712	0			0.003 ^	0.01
Cauliflower	532	0			0.002 - 0.008	0.01
Celery	708	0			0.002 - 0.005	0.01
Grape Juice	176	0			0.050 ^	0.01
Green Beans	378	0			0.030 ^	0.01
Mushrooms	532	0			0.050 ^	0.01
Nectarines	543	0			0.003 ^	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
Peaches	285	0			0.005 ^	0.01
Plums	507	0			0.005 ^	0.01
Raspberries	652	0			0.005 - 0.018	0.01
Raspberries, Frozen	53	0			0.005 - 0.018	0.01
Summer Squash	709	0			0.005 - 0.030	0.01
Winter Squash	187	0			0.003 ^	0.01
TOTAL	**8,525**	**0**				
Phenthoate (insecticide)						
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**2,471**	**0**				
o-Phenylphenol (fungicide)						
Apple Juice	379	3	0.8	0.006 - 0.008	0.005 ^	25
Carrots	712	1	0.1	0.007 ^	0.004 ^	20
Grape Juice	176	0			0.005 ^	NT
Mushrooms (V-7)	532	7	1.3	0.005 - 0.035	0.005 ^	NT
Nectarines	543	0			0.004 ^	5
Plums	507	1	0.2	0.012 ^	0.005 ^	20
TOTAL	**2,849**	**12**				
Phorate (insecticide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.042 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	708	0			0.002 - 0.010	NT
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	0			0.060 ^	0.05
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.042	NT
Raspberries, Frozen	53	0			0.010 - 0.042	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,014**	**0**				
Phorate oxygen analog (metabolite of Phorate)						
Apple Juice	379	0			0.010 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.005	NT
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	0			0.001 ^	0.05
Mushrooms	532	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**4,123**	**0**				
Phorate oxygen analog sulfone (metabolite of Phorate)						
Bananas	708	0			0.010 ^	NT
Green Beans	378	0			0.002 ^	0.05
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**1,430**	**0**				
Phorate oxygen analog sulfoxide (metabolite of Phorate)						
Bananas	708	0			0.005 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Green Beans	378	0			0.002 ^	0.05
Raspberries	301	0			0.005 ^	NT
Raspberries, Frozen	43	0			0.005 ^	NT
TOTAL	**1,430**	**0**				
Phorate sulfone (metabolite of Phorate)						
Apple Juice	379	0			0.010 ^	NT
Bananas	708	0			0.030 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.003 - 0.005	NT
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	0			0.005 ^	0.05
Mushrooms	532	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.030	NT
Raspberries, Frozen	53	0			0.005 - 0.030	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,175**	**0**				
Phorate sulfoxide (metabolite of Phorate)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.005 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.005	NT
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	1	0.3	0.001 ^	0.001 ^	0.05
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 ^	NT
Raspberries, Frozen	53	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,547**	**1**				
Phosalone (insecticide)						
Apple Juice	379	0			0.001 ^	10.0
Baby Food - Applesauce	379	0			0.001 ^	10.0
Bananas	708	0			0.026 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.005	NT
Grape Juice	176	0			0.001 ^	10.0
Peaches	285	0			0.005 ^	15.0
Plums	507	0			0.005 ^	15.0
Raspberries	652	0			0.005 - 0.026	NT
Raspberries, Frozen	53	0			0.005 - 0.026	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,636**	**0**				
Phosmet (insecticide)						
Apple Juice	379	0			0.010 ^	10
Baby Food - Applesauce	379	3	0.8	0.002 ^	0.001 ^	10
Baby Food - Peas	378	0			0.12 ^	1
Bananas	708	0			0.049 ^	NT
Broccoli	668	0			0.005 ^	NT
Carrots (V-4)	711	4	0.6	0.005 - 0.017	0.003 - 0.010	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	14	8	0.011 - 0.015	0.010 ^	10
Green Beans	378	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	16	2.9	0.083 - 0.31	0.050 ^	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
Peaches	285	42	14.7	0.005 - 0.45	0.005 ^	10
Plums	507	13	2.6	0.008 - 0.032	0.005 ^	5
Raspberries	652	0			0.005 - 0.049	NT
Raspberries, Frozen	53	0			0.005 - 0.049	NT
Summer Squash	709	0			0.005 - 0.12	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**7,591**	**92**				
Phosmet oxygen analog (metabolite of Phosmet)						
Baby Food - Peas	378	0			0.010 ^	1
Bananas	708	0			0.006 ^	NT
Carrots	712	0			0.002 ^	NT
Green Beans	378	0			0.001 ^	NT
Nectarines	543	4	0.7	0.002 - 0.004	0.001 ^	5
Raspberries	301	0			0.006 ^	NT
Raspberries, Frozen	43	0			0.006 ^	NT
Summer Squash	346	0			0.010 ^	NT
TOTAL	**3,409**	**4**				
Phosphamidon (insecticide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.003 - 0.005	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**4,030**	**0**				
Phoxim (insecticide)						
Bananas	708	0			0.049 ^	NT
Celery	346	0			0.003 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.049	NT
Raspberries, Frozen	53	0			0.003 - 0.049	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**2,629**	**0**				
Piperonyl butoxide (insecticide)						
Apple Juice	379	0			0.005 ^	8
Baby Food - Applesauce	379	0			0.001 ^	8
Baby Food - Peas	378	0			0.010 ^	8
Bananas	708	0			0.013 ^	EX
Broccoli	707	0			0.005 ^	EX
Carrots	712	0			0.003 ^	EX
Cauliflower	532	0			0.005 ^	EX
Celery	708	6	0.8	0.008 - 0.23	0.005 ^	EX
Grape Juice	176	0			0.005 ^	8
Green Beans	378	0			0.030 ^	8
Mushrooms	532	19	3.6	0.007 - 0.48	0.005 ^	EX
Nectarines	543	0			0.003 ^	EX
Peaches	285	1	0.4	0.008 ^	0.005 ^	8
Plums	507	1	0.2	0.006 ^	0.005 ^	8
Raspberries	652	6	0.9	0.009 - 0.15	0.005 - 0.013	8
Raspberries, Frozen	53	0			0.005 - 0.013	8
Summer Squash	709	0			0.005 - 0.030	EX
Winter Squash	187	0			0.003 ^	EX
TOTAL	**8,525**	**33**				
Pirimicarb (insecticide)						
Baby Food - Applesauce	379	0			0.005 ^	NT
Bananas	708	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
Broccoli	708	0			0.005 ^	NT
Cauliflower	514	0			0.001 ^	NT
Celery	708	0			0.001 - 0.010	NT
Nectarines	543	0			0.005 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.003 - 0.010	NT
Raspberries, Frozen	53	0			0.003 - 0.010	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**5,607**	**0**				
Pirimicarb desmethyl (insecticide metabolite)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.002 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.002 - 0.003	NT
Raspberries, Frozen	53	0			0.002 - 0.003	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**4,001**	**0**				
Pirimiphos methyl (insecticide)						
Apple Juice	379	0			0.001 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.005	NT
Grape Juice	176	0			0.001 ^	NT
Mushrooms	532	0			0.001 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,116**	**0**				
Prallethrin (insecticide)						
Baby Food - Peas	378	0			0.10 ^	1.0
Bananas	708	0			0.10 ^	1.0
Carrots	712	0			0.015 ^	1.0
Celery	346	0			0.020 ^	1.0
Green Beans	378	0			0.20 ^	1.0
Nectarines	543	0			0.015 ^	1.0
Plums	507	0			0.020 ^	1.0
Raspberries	652	0			0.020 - 0.10	1.0
Raspberries, Frozen	53	0			0.020 - 0.10	1.0
Summer Squash	709	0			0.020 - 0.10	1.0
Winter Squash	187	0			0.012 ^	1.0
TOTAL	**5,173**	**0**				
Prochloraz (fungicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**2,948**	**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
Procymidone (fungicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.010 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	5.0
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 ^	NT
Raspberries, Frozen	53	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**4,176**	**0**				
Profenofos (insecticide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.005	NT
Grape Juice	176	0			0.075 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**4,019**	**0**				
Profluralin (herbicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Promecarb (insecticide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Prometryn (herbicide)						
Carrots	712	0			0.003 ^	0.45
Cauliflower	532	0			0.001 ^	NT
Celery	708	35	4.9	0.002 - 0.024	0.001 - 0.003	0.50
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.005 ^	NT
TOTAL	**3,370**	**35**				
Pronamide (herbicide)						
Apple Juice	379	0			0.002 ^	0.1
Baby Food - Applesauce	379	0			0.001 ^	0.1
Baby Food - Peas	378	0			0.005 ^	0.05
Bananas	708	0			0.012 ^	NT
Broccoli (V-1)	707	1	0.1	0.007 ^	0.005 ^	NT
Cauliflower (V-1)	532	1	0.2	0.002 ^	0.001 ^	NT
Celery (V-2)	708	2	0.3	0.004 - 0.007	0.001 - 0.003	NT
Grape Juice	176	0			0.002 ^	0.1
Green Beans	378	0			0.005 ^	NT
Mushrooms	532	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
Nectarines	543	0			0.001 ^	0.1
Peaches	285	0			0.005 ^	0.1
Plums	507	0			0.003 ^	0.1
Raspberries	652	0			0.003 - 0.012	0.05
Raspberries, Frozen	53	0			0.003 - 0.012	0.05
Summer Squash (V-1)	363	1	0.3	0.003 ^	0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**7,467**	**5**				
Propachlor (herbicide)						
Cauliflower	532	0			0.001 - 0.003	NT
Celery	362	0			0.001 - 0.003	NT
TOTAL	**894**	**0**				
Propamocarb hydrochloride [8] (fungicide)						
Apple Juice	379	0			0.003 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli (V-3)	708	3	0.4	0.011 - 0.041	0.010 ^	NT
Celery (V-3)	346	3	0.9	0.011 - 0.035	0.010 ^	NT
Grape Juice	148	0			0.003 ^	NT
Green Beans (V-6)	378	6	1.6	0.001 - 0.14	0.001 ^	NT
Mushrooms	532	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	709	76	10.7	0.006 - 0.56	0.005 - 0.010	1.5
Winter Squash	187	38	20.3	0.010 - 0.61	0.006 ^	1.5
TOTAL	**4,919**	**126**				
Propanil (herbicide)						
Celery	346	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**1,577**	**0**				
Propaquizafop (herbicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Propargite (insecticide)						
Apple Juice	379	0			0.050 ^	NT
Bananas	708	0			0.018 ^	NT
Broccoli	707	0			0.020 ^	NT
Cauliflower	532	0			0.020 ^	NT
Celery	708	0			0.005 - 0.020	NT
Grape Juice	176	0			0.050 ^	10.0
Mushrooms	532	0			0.050 ^	NT
Nectarines	543	3	0.6	0.17 - 0.52	0.030 ^	4.0
Peaches	285	0			0.020 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.018	NT
Raspberries, Frozen	53	0			0.005 - 0.018	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,332**	**3**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Propetamphos (insecticide)						
Apple Juice	379	0			0.010 ^	0.1
Baby Food - Applesauce	379	0			0.010 ^	0.1
Baby Food - Peas	378	0			0.050 ^	0.1
Bananas	708	0			0.010 ^	0.1
Broccoli	708	0			0.010 ^	0.1
Carrots	712	0			0.005 ^	0.1
Cauliflower	532	0			0.002 ^	0.1
Celery	708	0			0.002 - 0.005	0.1
Grape Juice	146	0			0.010 ^	0.1
Green Beans	378	0			0.10 ^	0.1
Mushrooms	501	0			0.010 ^	0.1
Nectarines	543	0			0.001 ^	0.1
Peaches	285	0			0.010 ^	0.1
Plums	507	0			0.005 ^	0.1
Raspberries	652	0			0.005 - 0.010	0.1
Raspberries, Frozen	53	0			0.005 - 0.010	0.1
Summer Squash	709	0			0.005 - 0.050	0.1
Winter Squash	187	0			0.003 ^	0.1
TOTAL	**8,465**	**0**				
Propham (herbicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.005 ^	NT
TOTAL	**1,764**	**0**				
Propiconazole (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.018 ^	0.2
Broccoli	708	0			0.010 ^	NT
Carrots	712	4	0.6	0.017 ^	0.010 ^	0.25
Cauliflower	532	0			0.008 ^	NT
Celery	708	194	27.4	0.010 - 0.15	0.008 - 0.010	5.0
Grape Juice	176	0			0.010 ^	1.3
Green Beans	378	0			0.005 ^	0.70
Mushrooms	532	0			0.010 ^	0.1
Nectarines	543	143	26.3	0.007 - 0.64	0.004 ^	4.0
Peaches	285	130	45.6	0.011 - 0.91	0.010 ^	4.0
Plums	507	30	5.9	0.011 - 0.39	0.010 ^	0.60
Raspberries	652	3	0.5	0.027 - 0.13	0.010 - 0.018	1.0
Raspberries, Frozen	53	0			0.010 - 0.018	1.0
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**7,802**	**504**				
Propoxur (insecticide)						
Apple Juice	379	0			0.003 ^	NT
Mushrooms	268	0			0.003 ^	NT
TOTAL	**647**	**0**				
Prothioconazole (fungicide)						
Baby Food - Peas	378	0			0.50 ^	NT
Green Beans	346	0			0.50 ^	NT
TOTAL	**724**	**0**				
Prothiofos (insecticide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.010 ^	NT
Nectarines	543	0			0.025 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**3,870**	**0**				
Pymetrozine (insecticide)						
Bananas	708	0			0.007 ^	NT
Cauliflower	532	0			0.005 ^	0.5
Celery	708	4	0.6	0.003 - 0.005	0.003 - 0.005	0.6
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.007	NT
Raspberries, Frozen	53	0			0.003 - 0.007	NT
Summer Squash	363	0			0.003 ^	0.1
Winter Squash	187	4	2.1	0.003 ^	0.002 ^	0.1
TOTAL	**3,710**	**8**				
Pyraclostrobin (fungicide)						
Apple Juice	379	0			0.003 ^	1.5
Baby Food - Applesauce	379	0			0.003 ^	1.5
Baby Food - Peas	378	0			0.005 ^	0.2
Bananas	708	0			0.001 ^	0.04
Broccoli	708	12	1.7	0.003 - 0.48	0.003 ^	5.0
Carrots	711	110	15.5	0.008 - 0.035	0.005 - 0.017	0.4
Cauliflower	532	0			0.004 ^	5.0
Celery	708	124	17.5	0.003 - 0.47	0.003 - 0.004	29.0
Grape Juice	176	0			0.003 ^	2.0
Green Beans	378	29	7.7	0.001 - 0.52	0.001 ^	0.5
Mushrooms	532	0			0.003 ^	NT
Nectarines	542	56	10.3	0.002 - 0.10	0.001 ^	2.5
Peaches	285	108	37.9	0.003 - 0.23	0.003 ^	2.5
Plums	507	8	1.6	0.003 - 0.015	0.003 ^	2.5
Raspberries	652	141	21.6	0.001 - 0.40	0.001 - 0.003	4.0
Raspberries, Frozen	53	7	13.2	0.002 - 0.34	0.001 - 0.003	4.0
Summer Squash	709	50	7.1	0.003 - 0.029	0.003 - 0.005	0.5
Winter Squash	187	5	2.7	0.003 ^	0.002 ^	0.5
TOTAL	**8,524**	**650**				
Pyraflufen ethyl (herbicide)						
Apple Juice	379	0			0.010 ^	0.01
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.010 ^	0.01
Nectarines	543	0			0.001 ^	0.01
Plums	507	0			0.003 ^	0.01
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,862**	**0**				
Pyrazophos (fungicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.006 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.006	NT
Raspberries, Frozen	53	0			0.005 - 0.006	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**4,001**	**0**				
Pyrethrins (insecticide)						
Bananas	708	0			0.20 ^	1.0
Raspberries	301	0			0.20 ^	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
Raspberries, Frozen	43	0			0.20 ^	1.0
TOTAL	**1,052**	**0**				
Pyridaben (insecticide, acaricide)						
Apple Juice	379	0			0.005 ^	0.5
Baby Food - Applesauce	379	21	5.5	0.002 ^	0.001 ^	0.5
Bananas	708	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.005 ^	1.5
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	5	0.9	0.002 - 0.031	0.001 ^	2.5
Peaches	285	7	2.5	0.008 - 0.018	0.005 ^	2.5
Plums	507	0			0.003 ^	2.5
Raspberries	652	0			0.001 - 0.003	NT
Raspberries, Frozen (V-1)	53	1	1.9	0.004 ^	0.001 - 0.003	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**5,817**	**34**				
Pyrimethanil (fungicide)						
Apple Juice	379	21	5.5	0.11 - 0.23	0.10 ^	14
Baby Food - Applesauce	379	32	8.4	0.003 - 0.13	0.003 ^	14
Bananas	708	34	4.8	0.002 - 0.011	0.002 ^	0.10
Broccoli	708	0			0.003 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery (V-1)	708	1	0.1	0.002 ^	0.001 - 0.005	NT
Grape Juice	118	0			0.10 ^	5.0
Green Beans (V-2)	378	2	0.5	0.003 - 0.006	0.001 ^	NT
Mushrooms	532	0			0.10 ^	NT
Nectarines	542	68	12.5	0.002 - 1.0	0.001 ^	10
Peaches	285	35	12.3	0.10 - 0.58	0.003 ^	10
Plums	507	37	7.3	0.005 - 1.4	0.005 ^	10
Raspberries (V-14)	652	14	2.1	0.002 - 0.041	0.002 - 0.005	NT
Raspberries, Frozen (V-4)	53	4	7.5	0.007 - 0.14	0.002 - 0.005	NT
Summer Squash	709	0			0.005 - 0.10	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**7,377**	**248**				
Pyriproxyfen (insecticide, growth regulator)						
Apple Juice	379	0			0.001 ^	0.20
Baby Food - Applesauce	357	0			0.001 ^	0.20
Baby Food - Peas	378	0			0.010 ^	0.20
Bananas	708	0			0.002 ^	0.20
Broccoli	707	0			0.005 ^	0.70
Carrots	712	0			0.001 ^	0.15
Cauliflower	532	0			0.003 ^	0.70
Celery	708	0			0.003 - 0.012	3.0
Grape Juice	176	0			0.001 ^	2.5
Green Beans	378	2	0.5	0.002 - 0.003	0.001 ^	0.20
Mushrooms	532	0			0.001 ^	0.10
Nectarines	543	0			0.001 ^	1.0
Peaches	285	0			0.005 ^	1.0
Plums	507	1	0.2	0.003 ^	0.003 ^	1.0
Raspberries	652	0			0.002 - 0.003	1.0
Raspberries, Frozen	53	0			0.002 - 0.003	1.0
Summer Squash	709	0			0.003 - 0.010	0.10
Winter Squash	187	0			0.002 ^	0.10
TOTAL	**8,503**	**3**				
Quinalphos (insecticide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.003 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.005 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.003 - 0.005	NT
Raspberries, Frozen	53	0			0.003 - 0.005	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**4,187**	**0**				
Quinoxyfen (fungicide)						
Apple Juice	379	0			0.020 ^	NT
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Grape Juice	146	0			0.020 ^	0.60
Mushrooms	532	0			0.020 ^	NT
Nectarines	543	6	1.1	0.002 - 0.022	0.001 ^	0.70
Peaches	285	0			0.010 ^	0.70
Plums	507	2	0.4	0.006 - 0.017	0.003 ^	0.70
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash (V-4)	363	4	1.1	0.004 - 0.010	0.003 ^	NT
Winter Squash	187	8	4.3	0.003 - 0.007	0.002 ^	0.20
TOTAL	**5,630**	**20**				
Quintozene - PCNB (fungicide) (parent of HCB, PCA, PCB and PCPMS)						
Apple Juice	379	0			0.004 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.021 ^	NT
Broccoli	707	0			0.005 ^	0.1
Carrots	712	0			0.006 ^	NT
Cauliflower	532	0			0.001 ^	0.1
Celery	708	0			0.001 - 0.005	NT
Grape Juice	176	0			0.004 ^	NT
Green Beans	378	0			0.025 ^	0.1
Mushrooms	532	0			0.004 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.021	NT
Raspberries, Frozen	53	0			0.005 - 0.021	NT
Summer Squash	709	0			0.005 - 0.050	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**7,604**	**0**				
Quizalofop ethyl (herbicide)						
Celery	346	0			0.010 ^	NT
Green Beans	378	0			0.35 ^	0.25
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,142**	**0**				
Resmethrin (insecticide)						
Baby Food - Applesauce	379	0			0.004 ^	3.0
Baby Food - Peas	378	0			0.12 ^	3.0
Bananas	708	0			0.028 ^	3.0
Broccoli	687	0			0.020 ^	3.0
Celery	346	0			0.010 ^	3.0
Green Beans	283	0			0.20 ^	3.0
Peaches	285	0			0.020 ^	3.0
Plums	476	0			0.010 ^	3.0
Raspberries	652	0			0.010 - 0.028	3.0
Raspberries, Frozen	53	0			0.010 - 0.028	3.0

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Summer Squash	649	0			0.010 - 0.25	3.0
Winter Squash	187	0			0.006 ^	3.0
TOTAL	**5,083**	**0**				
Resmethrin cis (isomer of Resmethrin)						
Apple Juice	379	0			0.050 ^	3.0
Carrots	712	0			0.002 ^	3.0
Cauliflower	518	0			0.002 ^	3.0
Celery	346	0			0.002 ^	3.0
Grape Juice	176	0			0.050 ^	3.0
Mushrooms	532	0			0.050 ^	3.0
Nectarines	543	0			0.002 ^	3.0
TOTAL	**3,206**	**0**				
Resmethrin trans (isomer of Resmethrin)						
Apple Juice	379	0			0.050 ^	3.0
Carrots	712	0			0.002 ^	3.0
Cauliflower	532	0			0.002 ^	3.0
Celery	362	0			0.002 ^	3.0
Grape Juice	176	0			0.050 ^	3.0
Mushrooms	532	0			0.050 ^	3.0
Nectarines	543	0			0.002 ^	3.0
TOTAL	**3,236**	**0**				
Rimsulfuron (herbicide)						
Apple Juice	33	0			0.010 ^	0.01
Mushrooms	93	0			0.010 ^	NT
Nectarines	543	0			0.003 ^	0.01
Plums	507	0			0.010 ^	0.01
Raspberries	351	0			0.010 ^	0.01
Raspberries, Frozen	10	0			0.010 ^	0.01
TOTAL	**1,537**	**0**				
Rotenone (insecticide)						
Celery	346	0			0.040 ^	NT
Plums	507	0			0.040 ^	NT
Raspberries	351	0			0.040 ^	NT
Raspberries, Frozen	10	0			0.040 ^	NT
Summer Squash	363	0			0.040 ^	NT
TOTAL	**1,577**	**0**				
Saflufenacil (herbicide)						
Apple Juice	379	0			0.010 ^	0.03
Baby Food - Peas	356	0			0.010 ^	0.03
Celery	346	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	0.03
Green Beans	378	0			0.010 ^	0.03
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.005 ^	0.03
Plums	507	0			0.010 ^	0.03
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**4,128**	**0**				
Sethoxydim (herbicide)						
Apple Juice	379	0			0.003 ^	0.2
Baby Food - Peas	378	0			0.020 ^	10
Bananas	708	0			0.007 ^	NT
Carrots	712	0			0.001 ^	4.0
Celery	346	0			0.005 ^	4.0
Grape Juice	176	0			0.003 ^	1.0
Green Beans	378	0			0.005 ^	15
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	0			0.001 ^	0.2

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.007	5.0
Raspberries, Frozen	53	0			0.005 - 0.007	5.0
Summer Squash	709	0			0.005 - 0.020	4.0
Winter Squash	187	0			0.003 ^	4.0
TOTAL	**6,260**	**0**				
Simazine (herbicide)						
Apple Juice	379	0			0.005 ^	0.20
Bananas	708	0			0.005 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.005	NT
Grape Juice	176	0			0.005 ^	0.20
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	0			0.004 ^	NT
Plums	507	0			0.005 ^	0.20
Raspberries	652	0			0.005 ^	0.20
Raspberries, Frozen	53	0			0.005 ^	0.20
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,340**	**0**				
Spinetoram (insecticide)						
Apple Juice	379	0			0.005 ^	0.20
Bananas	708	0			0.005 ^	0.25
Carrots	712	0			0.015 ^	0.10
Cauliflower	532	0			0.001 ^	2.0
Celery	708	3	0.4	0.002 - 0.018	0.001 - 0.010	8.0
Grape Juice	176	0			0.005 ^	0.50
Green Beans	347	2	0.6	0.001 - 0.008	0.001 ^	0.30
Mushrooms	532	0			0.005 ^	NT
Nectarines	543	49	9	0.013 - 0.16	0.008 ^	0.20
Plums	507	0			0.010 ^	0.20
Raspberries	652	86	13.2	0.005 - 0.37	0.005 - 0.010	0.70
Raspberries, Frozen	53	1	1.9	0.038 ^	0.005 - 0.010	0.70
Summer Squash	363	0			0.010 ^	0.30
Winter Squash	187	0			0.006 ^	0.30
TOTAL	**6,399**	**141**				
Spinosad (insecticide) (total of spinosyns A and D)						
Baby Food - Peas	378	0			0.005 ^	0.02
Carrots	712	0			0.005 ^	0.10
Cauliflower	532	0			0.001 ^	2.0
Celery	708	12	1.7	0.002 - 0.087	0.001 - 0.003	8.0
Green Beans	347	6	1.7	0.002 - 0.044	0.002 ^	0.30
Nectarines	543	174	32	0.010 - 0.11	0.006 ^	0.20
Plums	507	1	0.2	0.005 ^	0.003 ^	0.20
Raspberries	351	41	11.7	0.003 - 0.21	0.003 ^	0.7
Raspberries, Frozen	10	0			0.003 ^	0.7
Summer Squash	709	1	0.1	0.004 ^	0.003 - 0.005	0.3
TOTAL	**4,797**	**235**				
Spinosad A (isomer of Spinosad)						
Apple Juice	379	0			0.005 ^	0.20
Baby Food - Applesauce	379	2	0.5	0.003 - 0.005	0.002 ^	0.20
Bananas	708	0			0.005 ^	0.25
Broccoli	686	2	0.3	0.009 - 0.31	0.002 ^	2.0
Grape Juice	176	0			0.005 ^	0.50
Mushrooms	532	0			0.005 ^	0.02
Raspberries	301	24	8	0.008 - 0.44	0.005 ^	0.7
Raspberries, Frozen	43	0			0.005 ^	0.7
Winter Squash	187	0			0.002 ^	0.3
TOTAL	**3,391**	**28**				
Spinosad D (isomer of Spinosad)						
Apple Juice	379	1	0.3	0.007 ^	0.005 ^	0.20

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Baby Food - Applesauce	379	0			0.002 ^	0.20
Bananas	708	0			0.005 ^	0.25
Broccoli	686	2	0.3	0.002 - 0.052	0.002 ^	2.0
Grape Juice	176	0			0.007 ^	0.50
Mushrooms	532	0			0.005 - 0.007	0.02
Raspberries	301	17	5.6	0.005 - 0.10	0.005 ^	0.7
Raspberries, Frozen	43	0			0.005 ^	0.7
Winter Squash	187	0			0.002 ^	0.3
TOTAL	**3,391**	**20**				
Spirodiclofen (acaricide)						
Apple Juice	379	0			0.010 ^	0.80
Baby Food - Applesauce	379	0			0.010 ^	0.80
Bananas	708	0			0.006 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.010 ^	2.0
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	5	0.9	0.11 ^	0.065 ^	1.0
Peaches	285	88	30.9	0.010 - 0.29	0.010 ^	1.0
Plums	507	12	2.4	0.005 - 0.017	0.005 ^	1.0
Raspberries	652	0			0.005 - 0.006	NT
Raspberries, Frozen	53	0			0.005 - 0.006	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,818**	**105**				
Spiromesifen Total (parent + enol metabolite) (insecticide)						
Cauliflower	532	0			0.006 ^	2.0
Celery	362	0			0.008 - 0.020	6.0
TOTAL	**894**	**0**				
Spiromesifen (insecticide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.002 ^	NT
Baby Food - Peas	378	0			0.020 ^	NT
Broccoli	688	0			0.002 ^	2.0
Celery	346	0			0.005 ^	6.0
Grape Juice	176	0			0.010 ^	NT
Green Beans	378	1	0.3	0.025 ^	0.020 ^	0.80
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.002 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries (V-1)	351	1	0.3	0.008 ^	0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	709	0			0.005 - 0.040	0.10
Winter Squash	187	0			0.003 ^	0.10
TOTAL	**5,305**	**2**				
Spirotetramat (insecticide)						
Apple Juice	379	0			0.002 ^	0.70
Baby Food - Peas	378	0			0.010 ^	2.5
Celery	346	4	1.2	0.003 - 0.006	0.003 ^	9.0
Grape Juice	176	0			0.002 ^	1.3
Green Beans	378	0			0.001 ^	2.5
Mushrooms	532	0			0.002 ^	NT
Nectarines	543	0			0.001 ^	4.5
Plums	507	4	0.8	0.003 - 0.008	0.003 ^	4.5
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	709	0			0.003 - 0.010	0.30
Winter Squash	187	1	0.5	0.003 ^	0.002 ^	0.30
TOTAL	**4,496**	**9**				

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Spiroxamine (fungicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Bananas	708	0			0.002 ^	3.0
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.003 ^	NT
Grape Juice	176	0			0.010 ^	1.0
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.002 - 0.003	NT
Raspberries, Frozen	53	0			0.002 - 0.003	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**4,177**	**0**				
Sulfallate (herbicide)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**1,577**	**0**				
Sulfentrazone (herbicide)						
Baby Food - Peas	378	0			0.15 ^	0.15
Bananas	708	0			0.035 ^	NT
Celery	346	0			0.010 ^	NT
Green Beans	378	0			0.015 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.035	0.15
Raspberries, Frozen	53	0			0.010 - 0.035	0.15
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**3,572**	**0**				
Sulprofos (insecticide)						
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.005	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**2,658**	**0**				
Tebuconazole (fungicide)						
Apple Juice	379	0			0.010 ^	0.05
Baby Food - Applesauce	379	0			0.001 ^	0.05
Bananas	708	0			0.006 ^	0.05
Broccoli (V-1)	707	1	0.1	0.037 ^	0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery (V-1)	708	1	0.1	0.010 ^	0.002 - 0.010	NT
Grape Juice	176	0			0.010 ^	5.0
Green Beans (X-1)	378	24	6.3	0.001 - 0.20	0.001 ^	0.1
Nectarines (X-11)	543	201	37	0.002 - 3.4	0.001 ^	1.0
Peaches	285	32	11.2	0.005 - 0.28	0.005 ^	1.0
Plums (X-1)	507	84	16.6	0.010 - 2.5	0.010 ^	1.0
Raspberries	652	0			0.006 - 0.010	NT
Raspberries, Frozen	53	0			0.006 - 0.010	NT
Summer Squash	709	2	0.3	0.007 - 0.009	0.005 - 0.010	0.09
Winter Squash	187	1	0.5	0.010 ^	0.006 ^	0.09
TOTAL	**6,903**	**346**				
Tebufenozide (insecticide)						
Apple Juice	379	0			0.002 ^	1.0
Baby Food - Applesauce	379	6	1.6	0.006 - 0.008	0.005 ^	1.0
Bananas	708	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
Broccoli	528	0			0.025 ^	5.0
Cauliflower	532	0			0.003 - 0.010	5.0
Celery	708	0			0.005 - 0.010	2.0
Grape Juice	176	0			0.002 ^	3.0
Mushrooms	532	0			0.002 ^	NT
Peaches	285	0			0.005 - 0.050	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.003 - 0.005	3.0
Raspberries, Frozen	53	0			0.003 - 0.005	3.0
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,989**	**6**				
Tebufenpyrad (insecticide, acaricide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.002 ^	NT
Bananas	708	0			0.005 ^	NT
Broccoli	707	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.010 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 ^	NT
Raspberries, Frozen	53	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
TOTAL	**4,555**	**0**				
Tebuthiuron (herbicide)						
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,658**	**0**				
Tecnazene (plant growth regulator)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.010	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**3,842**	**0**				
Teflubenzuron (insecticide)						
Bananas	708	0			0.010 ^	NT
Raspberries	301	0			0.010 ^	NT
Raspberries, Frozen	43	0			0.010 ^	NT
TOTAL	**1,052**	**0**				
Tefluthrin (insecticide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.010 ^	NT
Bananas	708	0			0.009 ^	NT
Broccoli	707	0			0.005 ^	NT
Carrots	712	0			0.002 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	NT
Grape Juice	176	0			0.002 ^	NT
Green Beans	378	0			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
Mushrooms	532	0			0.002 ^	NT
Nectarines	543	0			0.002 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.003 - 0.009	NT
Raspberries, Frozen	53	0			0.003 - 0.009	NT
Summer Squash	709	0			0.003 - 0.050	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**8,525**	**0**				
Tepraloxydim (herbicide)						
Baby Food - Peas	378	0			0.060 ^	NT
Green Beans	378	0			0.005 ^	NT
TOTAL	**756**	**0**				
Terbacil (herbicide)						
Apple Juice	379	0			0.010 ^	0.3
Baby Food - Applesauce	357	0			0.002 ^	0.3
Bananas	708	0			0.010 ^	NT
Broccoli	668	0			0.008 ^	NT
Cauliflower	514	0			0.003 ^	NT
Celery	708	0			0.003 - 0.010	NT
Grape Juice	176	0			0.010 ^	NT
Nectarines	543	0			0.020 ^	NT
Peaches	285	0			0.008 ^	0.2
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.010	0.2
Raspberries, Frozen	53	0			0.005 - 0.010	0.2
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.008 ^	NT
TOTAL	**6,100**	**0**				
Terbufos (insecticide)						
Celery	603	0			0.002 - 0.003	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**2,021**	**0**				
Terbufos sulfone (metabolite of Terbufos)						
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.010	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,658**	**0**				
Terbuthylazine (herbicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.002 ^	NT
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.003 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	652	0			0.002 - 0.003	NT
Raspberries, Frozen	53	0			0.002 - 0.003	NT
Summer Squash	363	0			0.003 ^	NT
TOTAL	**4,000**	**0**				
Terbutryn (herbicide)						
Grape Juice	176	0			0.025 ^	NT
TOTAL	**176**	**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
Tetrachlorvinphos (insecticide)						
Baby Food - Peas	378	0			0.050 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.003 - 0.005	NT
Green Beans	378	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**3,414**	**0**				
Tetraconazole (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.010	NT
Grape Juice	176	0			0.010 ^	0.20
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**3,213**	**0**				
Tetradifon (insecticide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Bananas	708	0			0.020 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.002 ^	NT
Celery	708	0			0.002 - 0.010	NT
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.010 - 0.020	NT
Raspberries, Frozen	53	0			0.010 - 0.020	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**6,146**	**0**				
Tetrahydrophthalimide - THPI (metabolite of Captafol and Captan)						
Apple Juice	379	98	25.9	0.010 - 0.56	0.010 ^	25.0
Cauliflower	532	0			0.004 ^	0.05
Celery	693	0			0.004 - 0.012	0.05
Grape Juice	176	0			0.010 ^	25.0
Mushrooms	532	0			0.010 ^	NT
Plums	507	3	0.6	0.012 - 0.024	0.010 ^	10.0
Raspberries	351	8	2.3	0.012 - 0.29	0.010 ^	25.0
Raspberries, Frozen	10	1	10	1.7 ^	0.010 ^	25.0
Summer Squash (X-2)	363	4	1.1	0.011 - 0.11	0.010 ^	0.05
Winter Squash	187	0			0.009 ^	0.05
TOTAL	**3,730**	**114**				
Tetramethrin (insecticide)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Applesauce	379	0			0.005 ^	NT
Baby Food - Peas	378	0			0.050 ^	NT
Bananas	708	0			0.099 ^	NT
Broccoli	707	0			0.005 ^	NT
Carrots	712	0			0.001 ^	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.005 ^	NT
Green Beans	378	0			0.050 ^	NT
Mushrooms	532	0			0.005 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Nectarines	543	0			0.001 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.099	NT
Raspberries, Frozen	53	0			0.005 - 0.099	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**7,285**	**0**				
Thiabendazole (fungicide) (parent of 5-hydroxythiabendazole)						
Apple Juice	379	95	25.1	0.003 - 0.27	0.003 ^	5.0
Baby Food - Applesauce	379	26	6.9	0.019 - 0.12	0.010 ^	5.0
Bananas	708	389	54.9	0.006 - 0.16	0.006 ^	3.0
Broccoli	708	0			0.010 ^	NT
Carrots	712	0			0.002 ^	10.0
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.005	NT
Grape Juice (V-1)	176	1	0.6	0.003 ^	0.003 ^	NT
Mushrooms	532	254	47.7	0.003 - 2.0	0.003 ^	40.0
Nectarines (V-74)	543	74	13.6	0.003 - 1.8	0.002 ^	NT
Peaches	285	0			0.010 ^	NT
Plums (V-9)	507	9	1.8	0.005 - 0.091	0.005 ^	NT
Raspberries	652	0			0.005 - 0.006	NT
Raspberries, Frozen	53	0			0.005 - 0.006	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**7,424**	**848**				
Thiacloprid (insecticide)						
Apple Juice	379	14	3.7	0.001 - 0.002	0.001 ^	0.30
Baby Food - Applesauce	379	8	2.1	0.010 - 0.025	0.010 ^	0.30
Bananas	708	0			0.005 ^	NT
Broccoli	708	0			0.010 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	693	0			0.001 - 0.003	NT
Grape Juice	176	0			0.001 ^	NT
Nectarines	543	0			0.005 ^	0.5
Peaches	285	0			0.010 ^	0.5
Plums	507	0			0.003 ^	0.05
Raspberries	652	0			0.003 - 0.005	NT
Raspberries, Frozen	53	0			0.003 - 0.005	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**6,165**	**22**				
Thiamethoxam (insecticide) (also a parent of Clothianidin)						
Apple Juice	379	3	0.8	0.003 - 0.004	0.003 ^	0.2
Baby Food - Applesauce	379	0			0.010 ^	0.2
Baby Food - Peas	378	0			0.060 ^	0.02
Bananas	708	0			0.010 ^	0.02
Broccoli	708	10	1.4	0.011 - 0.076	0.010 ^	4.5
Carrots	712	0			0.015 ^	0.05
Cauliflower	532	4	0.8	0.008 ^	0.005 - 0.030	4.5
Celery	708	86	12.1	0.003 - 0.16	0.003 - 0.005	4.0
Grape Juice	176	0			0.003 ^	0.20
Green Beans	378	0			0.005 ^	0.02
Mushrooms	532	0			0.003 ^	0.02
Nectarines	543	0			0.025 ^	0.5
Peaches	285	0			0.010 ^	0.5
Plums	507	2	0.4	0.004 - 0.005	0.003 ^	0.5
Raspberries	652	1	0.2	0.060 ^	0.003 - 0.010	0.35
Raspberries, Frozen	53	2	3.8	0.021 - 0.025	0.003 - 0.010	0.35
Summer Squash (X-1)	709	106	15	0.003 - 0.36	0.003 - 0.060	0.2
Winter Squash	187	29	15.5	0.003 - 0.011	0.002 ^	0.2
TOTAL	**8,526**	**243**				

Pesticide / 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	379	0			0.008 ^	NT
Grape Juice	176	0			0.008 ^	NT
Mushrooms	532	0			0.008 ^	NT
TOTAL	**1,087**	**0**				
Thiobencarb (herbicide)						
Apple Juice	379	0			0.010 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.003 - 0.010	0.2
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**3,745**	**0**				
Thiodicarb (insecticide)						
Apple Juice	379	0			0.003 ^	NT
Celery	346	0			0.010 ^	35
Grape Juice	176	0			0.003 ^	NT
Mushrooms	532	0			0.003 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**2,851**	**0**				
Thionazin (insecticide, fumigant)						
Celery	346	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	351	0			0.005 ^	NT
Raspberries, Frozen	10	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**1,764**	**0**				
Thiophanate methyl (fungicide)						
Green Beans	378	5	1.3	0.008 - 0.020	0.005 ^	2.0
Summer Squash	346	0			0.040 ^	1.0
TOTAL	**724**	**5**				
Tolclofos methyl (fungicide)						
Celery	346	0			0.010 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	351	0			0.010 ^	NT
Raspberries, Frozen	10	0			0.010 ^	NT
Summer Squash	363	0			0.010 ^	NT
TOTAL	**1,577**	**0**				
Tolylfluanid (fungicide)						
Bananas	708	0			0.047 ^	NT
Raspberries	301	0			0.047 ^	NT
Raspberries, Frozen	43	0			0.047 ^	NT
TOTAL	**1,052**	**0**				
Tri-Allate (herbicide)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.050 ^	0.2
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.003 ^	NT
Green Beans	378	0			0.075 ^	NT
Peaches	285	0			0.005 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	363	0			0.003 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**3,891**	**0**				
Triadimefon (fungicide) (also a parent of Triadimenol)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.005 ^	NT
Broccoli	707	0			0.005 ^	NT
Cauliflower	532	0			0.003 ^	NT
Celery	708	0			0.001 - 0.010	NT
Nectarines	543	0			0.015 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.010 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	0			0.010 ^	NT
Winter Squash	187	0			0.006 ^	NT
TOTAL	**5,624**	**0**				
Triadimenol (fungicide) (also a metabolite of Triadimefon)						
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.017 ^	0.2
Broccoli	707	0			0.005 ^	NT
Celery	346	0			0.030 ^	NT
Nectarines	543	0			0.050 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.030 ^	NT
Raspberries	652	0			0.017 - 0.030	NT
Raspberries, Frozen	53	0			0.017 - 0.030	NT
Summer Squash	363	0			0.030 ^	NT
Winter Squash	187	0			0.018 ^	NT
TOTAL	**4,730**	**0**				
Triazophos (insecticide)						
Apple Juice	379	0			0.001 ^	NT
Baby Food - Applesauce	379	0			0.002 ^	NT
Bananas	708	0			0.005 ^	NT
Broccoli	707	0			0.010 ^	NT
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.001 ^	NT
Nectarines	543	0			0.003 ^	NT
Peaches	285	0			0.010 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 ^	NT
Raspberries, Frozen	53	0			0.005 ^	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**5,285**	**0**				
Trichlorfon (insecticide)						
Apple Juice	379	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
Mushrooms	532	0			0.010 ^	NT
TOTAL	**1,087**	**0**				
Trifloxystrobin (fungicide)						
Apple Juice	379	0			0.003 ^	0.5
Baby Food - Applesauce	379	0			0.005 ^	0.5
Bananas	708	0			0.005 ^	0.10
Broccoli	708	0			0.005 ^	NT
Carrots	712	0			0.001 ^	0.1
Cauliflower	532	0			0.001 ^	NT
Celery	708	18	2.5	0.002 - 0.023	0.001 - 0.003	3.5

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
Grape Juice	176	0			0.003 ^	2.0
Green Beans (V-6)	378	6	1.6	0.001 - 0.023	0.001 ^	NT
Mushrooms	532	0			0.003 ^	NT
Nectarines	543	7	1.3	0.005 - 0.022	0.003 ^	2
Peaches	285	5	1.8	0.009 - 0.19	0.005 ^	2
Plums	507	1	0.2	0.003 ^	0.003 ^	2
Raspberries	652	0			0.003 - 0.005	NT
Raspberries, Frozen (V-1)	53	1	1.9	0.011 ^	0.003 - 0.005	NT
Summer Squash	709	5	0.7	0.003 - 0.012	0.003 - 0.005	0.50
Winter Squash	187	1	0.5	0.003 ^	0.002 ^	0.50
TOTAL	**8,148**	**44**				
Trifloxysulfuron (herbicide)						
Apple Juice	379	0			0.005 ^	NT
Grape Juice	176	0			0.020 ^	NT
Mushrooms	501	0			0.005 - 0.020	NT
TOTAL	**1,056**	**0**				
Triflumizole (fungicide)						
Apple Juice	379	0			0.010 ^	0.5
Baby Food - Applesauce	379	0			0.003 ^	0.5
Bananas	708	0			0.002 ^	NT
Broccoli	708	0			0.003 ^	8.0
Celery	346	0			0.005 ^	NT
Grape Juice	176	0			0.010 ^	2.5
Green Beans	378	0			0.001 ^	NT
Peaches	285	0			0.003 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.002 - 0.005	NT
Raspberries, Frozen	53	0			0.002 - 0.005	NT
Summer Squash	709	7	1	0.006 - 0.023	0.005 - 0.062	0.5
Winter Squash	187	0			0.003 ^	0.5
TOTAL	**5,467**	**7**				
Trifluralin (herbicide)						
Apple Juice	379	0			0.001 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.010 ^	0.05
Bananas	708	0			0.009 ^	NT
Broccoli	707	2	0.3	0.010 - 0.013	0.005 ^	0.05
Carrots	712	171	24	0.003 - 0.18	0.002 ^	1.0
Cauliflower	532	1	0.2	0.002 ^	0.001 ^	0.05
Celery	708	13	1.8	0.002 - 0.009	0.001 - 0.005	0.05
Grape Juice	176	0			0.001 ^	0.05
Green Beans	378	0			0.005 ^	0.05
Mushrooms	532	0			0.001 ^	NT
Nectarines	543	0			0.002 ^	0.05
Peaches	285	0			0.005 ^	0.05
Plums	507	0			0.005 ^	0.05
Raspberries	652	0			0.005 - 0.009	NT
Raspberries, Frozen	53	0			0.005 - 0.009	NT
Summer Squash	709	1	0.1	0.010 ^	0.005 - 0.010	0.05
Winter Squash	187	0			0.006 ^	0.05
TOTAL	**8,525**	**188**				
Triforine (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Grape Juice	176	0			0.010 ^	NT
Nectarines	543	0			0.025 ^	NT
TOTAL	**1,098**	**0**				
Triticonazole (fungicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Celery	346	0			0.040 ^	NT
Peaches	285	0			0.010 ^	NT

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Plums	507	0			0.040 ^	NT
Raspberries	351	0			0.040 ^	NT
Raspberries, Frozen	10	0			0.040 ^	NT
Summer Squash	363	0			0.040 ^	NT
TOTAL	**2,949**	**0**				
Uniconazole (insect growth regulator)						
Celery	346	0			0.040 ^	NT
Plums	507	0			0.040 ^	NT
Raspberries	351	0			0.040 ^	NT
Raspberries, Frozen	10	0			0.040 ^	NT
Summer Squash	363	0			0.040 ^	NT
Winter Squash	187	0			0.024 ^	NT
TOTAL	**1,764**	**0**				
Vernolate (herbicide)						
Baby Food - Applesauce	379	0			0.010 ^	NT
Broccoli	708	0			0.010 ^	NT
Peaches	220	0			0.010 ^	NT
TOTAL	**1,307**	**0**				
Vinclozolin (fungicide)						
Apple Juice	379	0			0.010 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Bananas	708	0			0.010 ^	NT
Broccoli	707	0			0.005 ^	NT
Carrots	712	0			0.002 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.005	NT
Grape Juice	176	0			0.010 ^	6.0
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.005 ^	NT
Raspberries	652	0			0.005 - 0.010	NT
Raspberries, Frozen	53	0			0.005 - 0.010	NT
Summer Squash	363	0			0.005 ^	NT
Winter Squash	187	0			0.003 ^	NT
TOTAL	**6,880**	**0**				
Zoxamide (fungicide)						
Celery	346	0			0.003 ^	NT
Green Beans	378	0			0.002 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	709	0			0.003 - 0.010	1.0
TOTAL	**2,301**	**0**				

Many of the listed tolerances are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions. The cited tolerances apply to 2013 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.

SU = Safe for use in spot and/or crevice treatments in food handling establishments.

1 Emamectin benzoate is the salt form of the active, Emamectin.

2 Halosulfuron methyl is the salt form of the active, Halosulfuron.

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm

3 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.

4 Specific tolerance established for methamidophos in cauliflower as a possible result of an acephate application.

5 Specific tolerance established for methamidophos in celery as a possible result of an acephate application.

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

7 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.

8 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 page 1 in Appendix M to see the sample origin (domestic, imported, or unknown) for each occurrence.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences. Refer to pages 2 and 3 in Appendix M to see the number of occurrences broken down by sample origin (domestic, imported, or unknown) for a commodity/pesticide pair.

Appendix C

Distribution of Residues by Pesticide in Infant Formula

Appendix C shows residue detections for all compounds tested in dairy-based and soy-based infant formula, 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 appendix apply to 2013 and not to the current year. There may be instances where tolerances have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2013, the Pesticide Data Program (PDP) analyzed 177 dairy-based formula samples and 179 soy-based formula samples. PDP detected just one pesticide in the infant formula samples, the insecticide synergist MGK-264, at a concentration of 0.003 ppm where the established tolerance was 5 ppm.

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

APPENDIX C. DISTRIBUTION OF RESIDUES BY PESTICIDE IN INFANT FORMULA

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Abamectin (I)						
Infant Formula, Soy-based	179				0.020 ^	0.01
Acephate (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.1
Infant Formula, Soy-based	179				0.010 ^	1.0
Acetamiprid (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.30
Infant Formula, Soy-based	179				0.003 ^	0.03
Acetochlor (H)						
Infant Formula, Soy-based	179				0.005 ^	1.0
Acibenzolar S methyl (L)						
Infant Formula, Dairy-based	177				0.004 - 0.012	NT
Alachlor (H)						
Infant Formula, Dairy-based	177				0.002 ^	0.02
Infant Formula, Soy-based	179				0.005 ^	1.0
Aldicarb (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.010 ^	0.02
Aldicarb sulfone (IM)						
Infant Formula, Dairy-based	177				0.003 - 0.010	NT
Infant Formula, Soy-based	179				0.010 ^	0.02
Aldicarb sulfoxide (IM)						
Infant Formula, Dairy-based	177				0.002 - 0.006	NT
Infant Formula, Soy-based	179				0.010 ^	0.02
Allethrin (I)						
Infant Formula, Soy-based	179				0.020 ^	EX
Ametoctradin (F)						
Infant Formula, Soy-based	179				0.003 ^	NT
Ametryn (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Atrazine (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Infant Formula, Soy-based	179				0.005 ^	NT
Azinphos ethyl (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Azinphos methyl (I)						
Infant Formula, Dairy-based	177				0.012 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Azinphos methyl oxygen analog (IM)						
Infant Formula, Soy-based	147				0.010 ^	NT
Azoxystrobin (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.006
Infant Formula, Soy-based	179				0.003 ^	0.5
Bendiocarb (I)						
Infant Formula, Dairy-based	177				0.001 ^	SU
Infant Formula, Soy-based	179				0.005 ^	SU
Benfluralin (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Benoxacor (S)						
Infant Formula, Dairy-based	177				0.001 ^	0.01
Infant Formula, Soy-based	179				0.010 ^	0.01

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Bensulide (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Bifenox (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Bifenthrin (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.1
Infant Formula, Soy-based	179				0.010 ^	0.2
Bitertanol (F)						
Infant Formula, Soy-based	179				0.040 ^	NT
Boscalid (F)						
Infant Formula, Soy-based	179				0.005 ^	0.1
Bromacil (H)						
Infant Formula, Soy-based	179				0.010 ^	NT
Bromopropylate (A)						
Infant Formula, Soy-based	179				0.010 ^	NT
Bromuconazole (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Bupirimate (F)						
Infant Formula, Soy-based	179				0.040 ^	NT
Buprofezin (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.01
Infant Formula, Soy-based	179				0.005 ^	NT
Cadusafos (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Carbaryl (I)						
Infant Formula, Dairy-based	177				0.001 ^	1.0
Infant Formula, Soy-based	179				0.005 ^	0.5
Carbendazim (MBC) (F)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.2
Carbofuran (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.1
Infant Formula, Soy-based	179				0.005 ^	1.0
Carbophenothion (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Carbophenothion methyl (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Carboxin (F)						
Infant Formula, Soy-based	179				0.005 ^	0.2
Carfentrazone ethyl (H)						
Infant Formula, Dairy-based	177				0.005 ^	0.05
Infant Formula, Soy-based	179				0.003 ^	0.10
Chlorantraniliprole (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.1
Infant Formula, Soy-based	179				0.010 ^	2.0
Chlorethoxyfos (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Chlorfenapyr (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.01
Chlorfenvinphos (I)						
Infant Formula, Dairy-based	177				0.004 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Chlorobenzilate (A)						
Infant Formula, Soy-based	179				0.003 ^	NT
Chloroneb (F)						
Infant Formula, Soy-based	179				0.005 ^	0.2
Chlorothalonil (F)						
Infant Formula, Soy-based	179				0.010 ^	0.2
Chlorpropham (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.30
Infant Formula, Soy-based	179				0.005 ^	NT
Chlorpyrifos (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.01
Infant Formula, Soy-based	179				0.010 ^	0.3
Chlorpyrifos oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.001 ^	0.01
Infant Formula, Soy-based	179				0.010 ^	0.3
Clethodim (H)						
Infant Formula, Dairy-based	177				0.002 ^	0.05
Clofentezine (I)						
Infant Formula, Soy-based	179				0.020 ^	NT
Clomazone (H)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	0.05
Clothianidin (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.02
Infant Formula, Soy-based	179				0.005 ^	0.02
Coumaphos (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Coumaphos oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.008 ^	NT
Crotoxyphos (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Crufomate (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Cyazofamid (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Cyfluthrin (I)						
Infant Formula, Dairy-based	177				0.008 ^	0.2
Infant Formula, Soy-based	179				0.005 ^	0.03
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (I)						
Infant Formula, Dairy-based	177				0.003 ^	0.4
Infant Formula, Soy-based	179				0.010 ^	0.01
Cymoxanil (F)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Cypermethrin (I)						
Infant Formula, Dairy-based	177				0.022 ^	0.10
Infant Formula, Soy-based	179				0.010 ^	0.05
Cyphenothrin (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Cyproconazole (F)						
Infant Formula, Soy-based	179				0.010 ^	0.05
Cyprodinil (F)						
Infant Formula, Soy-based	179				0.003 ^	0.6

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
DCPA (H)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	2.0
DEF (Tribufos) (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Deltamethrin (includes parent Tralomethrin) (I)						
Infant Formula, Dairy-based	177				0.012 - 0.040	0.02
Infant Formula, Soy-based	179				0.005 ^	0.1
Demeton-O (IM)						
Infant Formula, Soy-based	179				0.020 ^	NT
Demeton-S (IM)						
Infant Formula, Soy-based	179				0.030 ^	NT
Demeton-S sulfone (IM)						
Infant Formula, Soy-based	147				0.003 ^	NT
Dialifos (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Diazinon (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Diazinon oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Dichlobenil (H)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Dichlorvos (DDVP) (I)						
Infant Formula, Dairy-based	177				0.003 ^	0.02
Infant Formula, Soy-based	179				0.020 ^	0.5
Dicloran (F)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Dicofol o,p' (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.75
Infant Formula, Soy-based	179				0.010 ^	0.5
Dicofol p,p' (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.75
Infant Formula, Soy-based	179				0.005 ^	0.5
Dicrotophos (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Diethofencarb (F)						
Infant Formula, Soy-based	179				0.003 ^	NT
Difenoconazole (F)						
Infant Formula, Dairy-based	177				0.003 ^	0.01
Infant Formula, Soy-based	179				0.005 ^	0.15
Diflubenzuron (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.05
Infant Formula, Soy-based	179				0.020 ^	0.05
Dimethenamid (H)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	0.01
Dimethoate (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.002
Infant Formula, Soy-based	179				0.003 ^	2.0

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Dimethomorph (F)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Diniconazole (F)						
Infant Formula, Soy-based	179				0.020 ^	NT
Dinotefuran (I)						
Infant Formula, Dairy-based	177				0.006 ^	0.05
Infant Formula, Soy-based	179				0.010 ^	0.01
Dioxathion (I)						
Infant Formula, Soy-based	179				0.020 ^	NT
Diphenamid (H)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Diphenylamine (DPA) (F)						
Infant Formula, Dairy-based	177				0.003 ^	0.01
Infant Formula, Soy-based	179				0.003 ^	NT
Disulfoton (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Disulfoton oxon (IM)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Disulfoton sulfone (IM)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Disulfoton sulfone oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Disulfoton sulfoxide (IM)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Disulfoton sulfoxide oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Diuron (H)						
Infant Formula, Dairy-based	177				0.008 ^	NT
Infant Formula, Soy-based	179				0.020 ^	NT
DMST (4-dimethylaminosulphotosluidide) (FM)						
Infant Formula, Soy-based	179				0.003 ^	NT
Dodine (F)						
Infant Formula, Soy-based	179				0.020 ^	NT
Emamectin (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Emamectin benzoate (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.003
Endosulfan I (I)						
Infant Formula, Dairy-based	177				0.006 ^	NT
Infant Formula, Soy-based	179				0.010 ^	2.0
Endosulfan II (IM)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.010 ^	2.0
Endosulfan sulfate (IM)						
Infant Formula, Dairy-based	177				0.012 ^	NT
Infant Formula, Soy-based	179				0.005 ^	2.0
Epoxiconazole (F)						
Infant Formula, Soy-based	179				0.005 ^	NT
EPTC (H)						
Infant Formula, Dairy-based	177				0.001 ^	NT

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Esfenvalerate+Fenvalerate Total (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.3
Infant Formula, Soy-based	179				0.005 ^	0.05
Ethalfluralin (H)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.05
Ethion (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Ethion mono oxon (IM)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	147				0.003 ^	NT
Ethofumesate (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Ethoprop (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Ethylan (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Etofenprox (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Etoxazole (A)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Etridiazole (F)						
Infant Formula, Soy-based	179				0.020 ^	0.1
Famoxadone (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Fenamidone (F)						
Infant Formula, Dairy-based	177				0.002 ^	0.02
Infant Formula, Soy-based	179				0.010 ^	0.02
Fenamiphos (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Fenamiphos sulfone (IM)						
Infant Formula, Dairy-based	177				0.004 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Fenamiphos sulfoxide (IM)						
Infant Formula, Dairy-based	177				0.004 ^	NT
Infant Formula, Soy-based	179				0.020 ^	NT
Fenarimol (F)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Fenazaquin (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Fenbuconazole (F)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Fenchlorphos (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Fenhexamid (F)						
Infant Formula, Soy-based	179				0.040 ^	NT

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Fenitrothion (I)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Fenobucarb (BPMC) (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Fenpropathrin (I)						
Infant Formula, Dairy-based	177				0.003 ^	0.08
Infant Formula, Soy-based	179				0.005 ^	NT
Fenpropimorph (F)						
Infant Formula, Soy-based	179				0.003 ^	NT
Fenpyroximate (A)						
Infant Formula, Dairy-based	177				0.001 - 0.003	0.015
Fensulfothion (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Fenthion (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Fipronil (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.05
Flonicamid (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.03
Infant Formula, Soy-based	179				0.030 ^	NT
Fluazifop butyl (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.05
Infant Formula, Soy-based	179				0.003 ^	2.5
Fludioxonil (F)						
Infant Formula, Dairy-based	177				0.012 ^	0.01
Infant Formula, Soy-based	179				0.010 ^	0.4
Flufenacet (H)						
Infant Formula, Soy-based	179				0.010 ^	0.1
Flufenoxuron (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Flumioxazin (H)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.020 ^	0.02
Fluopicolide (F)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Fluoxastrobin (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Infant Formula, Soy-based	179				0.003 ^	0.05
Fluquinconazole (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Fluridone (H)						
Infant Formula, Soy-based	179				0.003 ^	0.1
Flusilazole (F)						
Infant Formula, Soy-based	179				0.003 ^	0.04
Flutolanil (F)						
Infant Formula, Soy-based	179				0.003 ^	0.20
Flutriafol (F)						
Infant Formula, Soy-based	179				0.010 ^	0.35
Fluvalinate (I)						
Infant Formula, Soy-based	179				0.010 ^	NT

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Fonofos (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Forchlorfenuron (P)						
Infant Formula, Soy-based	179				0.003 ^	NT
Formetanate hydrochloride (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Fosthiazate (T)						
Infant Formula, Soy-based	179				0.003 ^	NT
Hexaconazole (F)						
Infant Formula, Soy-based	179				0.020 ^	NT
Hexythiazox (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Hydroprene (R)						
Infant Formula, Soy-based	179				0.010 ^	0.2
3-Hydroxycarbofuran (IM)						
Infant Formula, Dairy-based	177				0.001 ^	0.1
Infant Formula, Soy-based	179				0.010 ^	1.0
5-Hydroxythiabendazole (FM)						
Infant Formula, Soy-based	179				0.005 ^	0.1
Imazalil (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Infant Formula, Soy-based	179				0.005 ^	NT
Imidacloprid (I)						
Infant Formula, Dairy-based	177				0.003 ^	0.10
Infant Formula, Soy-based	179				0.010 ^	3.5
Imiprothrin (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Indaziflam (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Indoxacarb (I)						
Infant Formula, Soy-based	179				0.010 ^	0.80
Iprodione (F)						
Infant Formula, Soy-based	179				0.005 ^	2.0
Iprovalicarb (F)						
Infant Formula, Soy-based	179				0.005 ^	NT
Isofenphos (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Isoprocarb (I)						
Infant Formula, Soy-based	179				0.010 ^	NT
Isoproturon (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Kresoxim-methyl (F)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Lactofen (H)						
Infant Formula, Soy-based	179				0.005 ^	0.01
Lenacil (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Leptophos oxygen analog (IM)						
Infant Formula, Soy-based	179				0.020 ^	NT
Lindane (BHC gamma) (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.3 AL
Infant Formula, Soy-based	179				0.003 ^	0.5

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Linuron (H)						
Infant Formula, Dairy-based	177				0.003 ^	0.05
Infant Formula, Soy-based	179				0.010 ^	1.0
Malathion (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.5
Infant Formula, Soy-based	179				0.005 ^	8
Malathion oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.010 ^	0.5
Infant Formula, Soy-based	179				0.003 ^	8
Mandipropamid (F)						
Infant Formula, Dairy-based	177				0.015 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Melamine (RM)						
Infant Formula, Dairy-based	177				0.015 ^	0.05
Mepanipyrim (F)						
Infant Formula, Soy-based	179				0.005 ^	NT
Metalaxyl/Mefenoxam (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Infant Formula, Soy-based	179				0.003 ^	1.0
Metconazole (F)						
Infant Formula, Soy-based	179				0.010 ^	0.05
Methamidophos (I)						
Infant Formula, Dairy-based	177				0.004 ^	0.1
Infant Formula, Soy-based	179				0.005 ^	1.0
Methidathion (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Methiocarb (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Methiocarb sulfoxide (IM)						
Infant Formula, Soy-based	179				0.005 ^	NT
Methomyl (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.020 ^	0.2
Methoprene (R)						
Infant Formula, Dairy-based	177				0.050 ^	EX
Methoxychlor Total (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Methoxychlor olefin (IM)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Methoxychlor p,p' (IM)						
Infant Formula, Soy-based	179				0.005 ^	NT
Methoxyfenozide (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.10
Infant Formula, Soy-based	179				0.005 ^	1.0
Metolachlor (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Infant Formula, Soy-based	179				0.003 ^	0.20
Metribuzin (H)						
Infant Formula, Dairy-based	177				0.002 ^	0.05
Infant Formula, Soy-based	179				0.005 ^	0.3

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Mevinphos (I)						
Infant Formula, Dairy-based	177				0.005 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
MGK-264 (I)						
Infant Formula, Soy-based	179	1	0.6	0.003 ^	0.003 ^	5
Monocrotophos (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Myclobutanil (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.2
Infant Formula, Soy-based	179				0.010 ^	0.25
Napropamide (H)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Nitrofen (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Norflurazon (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.1
Infant Formula, Soy-based	179				0.010 ^	0.1
Norflurazon desmethyl (HM)						
Infant Formula, Dairy-based	177				0.001 ^	0.1
Infant Formula, Soy-based	179				0.010 ^	0.1
Novaluron (I)						
Infant Formula, Dairy-based	177				0.001 ^	1.0
Infant Formula, Soy-based	179				0.080 ^	0.07
Omethoate (IM)						
Infant Formula, Dairy-based	177				0.002 ^	0.002
Infant Formula, Soy-based	179				0.005 ^	2.0
Oxadiazon (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Oxadixyl (F)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Oxamyl (I)						
Infant Formula, Dairy-based	177				0.002 - 0.006	NT
Infant Formula, Soy-based	179				0.010 ^	0.1
Oxamyl oxime (IM)						
Infant Formula, Soy-based	179				0.020 ^	0.1
Oxydemeton methyl (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Oxydemeton methyl sulfone (IM)						
Infant Formula, Dairy-based	177				0.012 ^	0.01
Infant Formula, Soy-based	179				0.005 ^	NT
Oxyfluorfen (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.01
Infant Formula, Soy-based	179				0.010 ^	0.05
Paclobutrazol (P)						
Infant Formula, Soy-based	179				0.010 ^	NT
Parathion (I)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Parathion methyl (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.1

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Parathion methyl oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.005 ^	NT
Infant Formula, Soy-based	179				0.010 ^	0.1
Parathion oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Penconazole (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Pencycuron (F)						
Infant Formula, Soy-based	179				0.005 ^	NT
Pendimethalin (H)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.10
Pentachloroaniline (PCA) (FM)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	0.1
Pentachlorobenzene (PCB) (FM)						
Infant Formula, Dairy-based	177				0.008 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.1
Penthiopyrad (F)						
Infant Formula, Soy-based	147				0.003 ^	0.40
Permethrin cis (IM)						
Infant Formula, Dairy-based	177				0.001 ^	0.88
Infant Formula, Soy-based	179				0.005 ^	0.05
Permethrin trans (IM)						
Infant Formula, Dairy-based	177				0.001 ^	0.88
Infant Formula, Soy-based	179				0.005 ^	0.05
Phenothrin (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.01
Infant Formula, Soy-based	179				0.005 ^	0.01
Phenthoate (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Phorate (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.010 ^	0.05
Phorate oxygen analog (IM)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	147				0.005 ^	0.05
Phorate sulfone (IM)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.05
Phorate sulfoxide (IM)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.05
Phosalone (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Phosmet (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Phosphamidon (I)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Phoxim (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Piperonyl butoxide (I)						
Infant Formula, Dairy-based	177				0.005 ^	0.25
Pirimicarb (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Pirimicarb desmethyl (IM)						
Infant Formula, Soy-based	179				0.003 ^	NT
Pirimiphos methyl (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Prallethrin (I)						
Infant Formula, Soy-based	179				0.020 ^	1.0
Prochloraz (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Procymidone (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Profenofos (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.01
Infant Formula, Soy-based	179				0.005 ^	NT
Profluralin (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Promecarb (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Prometryn (H)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Pronamide (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Infant Formula, Soy-based	179				0.003 ^	NT
Propachlor (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Propamocarb hydrochloride (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Propanil (H)						
Infant Formula, Soy-based	150				0.010 ^	NT
Propaquizafop (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Propargite (I)						
Infant Formula, Dairy-based	177				0.006 ^	0.08
Infant Formula, Soy-based	179				0.005 ^	0.2
Propetamphos (I)						
Infant Formula, Dairy-based	177				0.002 ^	0.1
Infant Formula, Soy-based	179				0.005 ^	0.1
Propham (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Propiconazole (F)						
Infant Formula, Dairy-based	177				0.008 ^	0.05
Infant Formula, Soy-based	179				0.010 ^	2.0
Prothiofos (I)						
Infant Formula, Soy-based	179				0.010 ^	NT

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Pymetrozine (I)						
Infant Formula, Dairy-based	177				0.005 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Pyraclostrobin (F)						
Infant Formula, Dairy-based	177				0.004 ^	0.1
Infant Formula, Soy-based	179				0.003 ^	0.04
Pyraflufen ethyl (H)						
Infant Formula, Soy-based	179				0.003 ^	0.01
Pyrazophos (F)						
Infant Formula, Soy-based	179				0.005 ^	NT
Pyridaben (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Pyrimethanil (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.05
Infant Formula, Soy-based	179				0.005 ^	NT
Pyriproxyfen (I)						
Infant Formula, Dairy-based	177				0.003 ^	0.10
Infant Formula, Soy-based	179				0.003 ^	0.20
Quinalphos (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Quinoxyfen (F)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Quintozene (PCNB) (F)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.1
Quizalofop ethyl (H)						
Infant Formula, Soy-based	179				0.010 ^	0.05
Resmethrin (I)						
Infant Formula, Soy-based	179				0.010 ^	3.0
Resmethrin cis (IM)						
Infant Formula, Dairy-based	177				0.002 ^	3.0
Resmethrin trans (IM)						
Infant Formula, Dairy-based	177				0.002 ^	3.0
Rotenone (I)						
Infant Formula, Soy-based	179				0.040 ^	NT
Sethoxydim (H)						
Infant Formula, Soy-based	179				0.005 ^	16
Simazine (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.03
Infant Formula, Soy-based	179				0.005 ^	NT
Spinetoram (I)						
Infant Formula, Dairy-based	177				0.001 ^	0.30
Infant Formula, Soy-based	179				0.010 ^	0.04
Spinosad (I)						
Infant Formula, Dairy-based	177				0.001 ^	7.0
Infant Formula, Soy-based	179				0.003 - 0.005	0.02
Spirodiclofen (A)						
Infant Formula, Soy-based	179				0.005 ^	NT
Spiromesifen (I)						
Infant Formula, Soy-based	179				0.005 ^	0.02
Spirotetramat (I)						
Infant Formula, Soy-based	179				0.003 ^	5.0

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Spiroxamine (F)						
Infant Formula, Soy-based	179				0.003 ^	NT
Sulfallate (H)						
Infant Formula, Soy-based	179				0.005 ^	NT
Sulfentrazone (H)						
Infant Formula, Soy-based	179				0.010 ^	0.15
Sulprofos (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Tebuconazole (F)						
Infant Formula, Dairy-based	177				0.002 ^	0.1
Infant Formula, Soy-based	179				0.010 ^	0.08
Tebufenozide (I)						
Infant Formula, Dairy-based	177				0.010 ^	0.04
Infant Formula, Soy-based	179				0.005 ^	NT
Tebufenpyrad (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Tebuthiuron (H)						
Infant Formula, Dairy-based	177				0.001 ^	0.8
Infant Formula, Soy-based	179				0.003 ^	NT
Tecnazene (P)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Tefluthrin (I)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.003 ^	NT
Terbacil (H)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Terbufos (I)						
Infant Formula, Soy-based	179				0.003 ^	NT
Terbufos sulfone (IM)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Terbuthylazine (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Tetrachlorvinphos (I)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Tetraconazole (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.03
Infant Formula, Soy-based	179				0.010 ^	0.15
Tetradifon (I)						
Infant Formula, Dairy-based	177				0.002 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Tetrahydrophthalimide (THPI) (FM)						
Infant Formula, Dairy-based	177				0.004 ^	0.10
Infant Formula, Soy-based	179				0.010 ^	0.05
Tetramethrin (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Thiabendazole (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.1
Infant Formula, Soy-based	179				0.005 ^	0.1

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Thiacloprid (I)						
Infant Formula, Dairy-based	177				0.003 ^	0.030
Infant Formula, Soy-based	179				0.003 ^	NT
Thiamethoxam (I)						
Infant Formula, Dairy-based	177				0.005 ^	0.02
Infant Formula, Soy-based	179				0.003 ^	0.02
Thiobencarb (H)						
Infant Formula, Dairy-based	177				0.003 ^	0.05
Infant Formula, Soy-based	179				0.010 ^	NT
Thiodicarb (I)						
Infant Formula, Soy-based	179				0.010 ^	0.2
Thionazin (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Tolclofos methyl (F)						
Infant Formula, Soy-based	179				0.010 ^	NT
Tri Allate (H)						
Infant Formula, Soy-based	179				0.003 ^	NT
Triadimefon (F)						
Infant Formula, Dairy-based	177				0.003 ^	NT
Infant Formula, Soy-based	179				0.010 ^	NT
Triadimenol (F)						
Infant Formula, Soy-based	179				0.030 ^	NT
Triazophos (I)						
Infant Formula, Soy-based	179				0.005 ^	NT
Trifloxystrobin (F)						
Infant Formula, Dairy-based	177				0.001 ^	0.02
Infant Formula, Soy-based	179				0.003 ^	0.08
Triflumizole (F)						
Infant Formula, Soy-based	179				0.005 ^	NT
Trifluralin (H)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	0.05
Triticonazole (F)						
Infant Formula, Soy-based	179				0.040 ^	NT
Uniconazole (R)						
Infant Formula, Soy-based	179				0.040 ^	NT
Vinclozolin (F)						
Infant Formula, Dairy-based	177				0.001 ^	NT
Infant Formula, Soy-based	179				0.005 ^	NT
Zoxamide (F)						
Infant Formula, Soy-based	179				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 2013 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.

Pesticide (Type) / Commodity	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm

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.

SU = Safe for use in spot and/or crevice treatments in food handling establishments.

AL = Number shown is an Action Level established by FDA. Under the Food Quality Protection Act, responsibility for establishing tolerances in lieu of action levels has been transferred to EPA. In the interim, action levels are used.

Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide, HM = Herbicide Metabolite

I = Insecticide, IM = Insecticide Metabolite

L = Plant Activator

P = Plant Growth Regulator

R = Insect Growth Regulator, RM = Insect Growth Regulator Metabolite

S = Herbicide Safener

T = Nematicide

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 appendix apply to 2013 and not to the current year. There may be instances where tolerances have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2013, the Pesticide Data Program (PDP) analyzed 756 butter samples. PDP detected eight different residues (including metabolites), representing seven pesticides, in the butter samples. All residue detections were lower than the established tolerances for those compounds with established tolerances.

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 butter, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H). PDP detected one environmental contaminant, DDE p,p', in the butter samples.

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	740				0.002 - 0.012	0.02
Acetamiprid	I	756				0.001 ^	0.01
Acibenzolar S methyl	L	756				0.015 ^	NT
Alachlor	H	756				0.002 ^	NT
Aldicarb	I	756				0.001 - 0.004	NT
Aldicarb sulfone	IM	707				0.004 - 0.024	NT
Aldicarb sulfoxide	IM	756				0.002 - 0.007	NT
Atrazine	H	756				0.004 - 0.007	NT
Azinphos methyl	I	756				0.001 ^	NT
Azoxystrobin	F	739				0.001 ^	NT
Bendiocarb	I	756				0.005 ^	SU
Benoxacor	S	756				0.001 ^	NT
Bifenthrin	I	756	112	14.8	0.003 - 0.006	0.002 ^	1.0
Buprofezin	I	756				0.001 ^	NT
Carbaryl	I	756				0.001 ^	NT
Carbendazim (MBC)	F	756				0.001 ^	NT
Carbofuran	I	756				0.001 ^	NT
Carfentrazone ethyl	H	756				0.005 - 0.018	NT
Chlorantraniliprole	I	756				0.002 ^	NT
Chlorfenapyr	I	738				0.003 ^	0.01
Chlorfenvinphos total	I	756				0.004 ^	NT
Chlorpropham (V-2)	H	756	2	0.3	0.002 - 0.004	0.001 - 0.004	NT
Chlorpyrifos	I	756				0.001 ^	0.25
Chlorpyrifos oxygen analog	IM	756				0.001 - 0.004	0.25
Clethodim	H	724				0.009 ^	NT
Clomazone	H	756				0.003 ^	NT
Clothianidin	I	756				0.002 - 0.012	NT
Coumaphos	I	756				0.002 ^	0.5
Coumaphos oxygen analog	IM	756				0.009 ^	0.5
Cyfluthrin	I	756				0.009 - 0.060	5.0
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	756	154	20.4	0.006 - 0.036	0.004 - 0.012	10.0
Cymoxanil	F	756				0.002 - 0.006	NT
Cypermethrin	I	756				0.027 - 0.090	2.5
Cyromazine	R	634				0.003 - 0.010	NT
DCPA	H	756				0.001 ^	NT
Diazinon	I	505				0.001 ^	NT
Diazinon oxygen analog	IM	740				0.001 ^	NT
Dichlobenil	H	756				0.003 ^	NT
Dichlorvos (DDVP)	I	756				0.004 ^	0.5
Dicloran	F	739				0.003 - 0.009	NT
Dicofol o,p'	I	756				0.003 ^	22.0
Dicofol p,p'	I	756				0.001 ^	22.0
Dicrotophos	I	756				0.002 ^	NT
Difenoconazole	F	756				0.004 ^	NT
Diflubenzuron	I	756				0.002 - 0.006	NT
Dimethenamid	H	756				0.001 ^	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Dimethoate	I	756				0.003 - 0.010	NT
Dimethomorph	F	756				0.001 ^	NT
Dinotefuran	I	756				0.007 - 0.024	0.01
Diphenamid	H	756				0.003 ^	NT
Diphenylamine (DPA)	F	756				0.004 ^	NT
Disulfoton	I	756				0.009 ^	NT
Disulfoton oxon	IM	756				0.010 ^	NT
Disulfoton sulfone	IM	756				0.002 ^	NT
Disulfoton sulfone oxygen analog	IM	740				0.001 - 0.007	NT
Disulfoton sulfoxide	IM	756				0.002 ^	NT
Disulfoton sulfoxide oxygen analog	IM	756				0.001 - 0.007	NT
Diuron	H	756				0.009 ^	NT
Emamectin benzoate	I	756				0.001 ^	NT
Endosulfan I	I	756				0.007 ^	2.0
Endosulfan II	IM	739				0.001 ^	2.0
Endosulfan sulfate	IM	756				0.015 - 0.030	2.0
EPTC	H	671				0.007 ^	NT
Ethalfluralin	H	756				0.027 ^	NT
Ethion	I	739				0.005 ^	0.5
Ethion mono oxon	IM	756				0.002 ^	0.5
Ethoprop	I	756				0.001 ^	NT
Etoxazole	A	724				0.004 ^	0.01
Famoxadone	F	723				0.004 - 0.007	0.06
Fenamidone	F	756				0.003 ^	NT
Fenamiphos	I	756				0.001 ^	NT
Fenamiphos sulfone	IM	756				0.004 ^	NT
Fenamiphos sulfoxide	IM	756				0.004 ^	NT
Fenarimol	F	756				0.003 - 0.009	NT
Fenbuconazole	F	756				0.001 ^	NT
Fenhexamid	F	756				0.011 ^	NT
Fenitrothion	I	756				0.004 - 0.024	NT
Fenpropathrin	I	756				0.004 ^	2.0
Fenpyroximate	A	537				0.004 - 0.007	NT
Fenthion	I	756				0.010 ^	NT
Flonicamid	I	756				0.001 - 0.004	NT
Fludioxonil	F	738				0.014 ^	NT
Flumioxazin	H	756				0.001 ^	NT
Fluopicolide	F	756				0.001 ^	NT
Fluoxastrobin	F	756				0.001 ^	0.50
Hydroprene	R	756				0.006 ^	0.2
3-Hydroxycarbofuran	IM	739				0.005 ^	NT
Imazalil	F	756				0.011 ^	NT
Imidacloprid	I	756				0.001 ^	NT
Kresoxim-methyl	F	741				0.012 ^	NT
Lindane (BHC gamma)	I	756				0.001 ^	0.3 AL
Linuron	H	756				0.004 - 0.012	NT
Malathion	I	756				0.003 ^	0.5
Malathion oxygen analog	IM	756				0.002 ^	0.5
Mandipropamid	F	756				0.005 - 0.018	NT

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Metalaxyl/Mefenoxam *	F	739				0.001 ^	NT
Methamidophos	I	756				0.001 ^	0.02
Methidathion oxygen analog	IM	756				0.004 ^	NT
Methiocarb	I	756				0.004 ^	NT
Methomyl	I	742				0.003 - 0.010	NT
Methoxychlor Total	I	689				0.001 - 0.014	NT
Methoxychlor olefin	IM	756				0.011 ^	NT
Methoxyfenozide	I	756				0.001 ^	NT
Metolachlor	H	756				0.001 ^	NT
Metribuzin	H	756				0.002 ^	NT
Mevinphos Total	I	740				0.002 - 0.060	NT
Myclobutanil	F	756				0.001 ^	NT
Napropamide	H	741				0.002 - 0.012	NT
Novaluron	I	723	269	37.2	0.002 - 0.013	0.001 ^	20
Omethoate	IM	740				0.003 - 0.010	NT
Oxadixyl	F	721				0.012 ^	NT
Oxamyl	I	739				0.002 - 0.007	NT
Oxydemeton methyl sulfone	IM	756				0.014 ^	NT
Oxyfluorfen	H	738				0.001 ^	NT
Parathion	I	756				0.004 - 0.012	NT
Parathion methyl	I	756				0.003 - 0.019	NT
Parathion methyl oxygen analog	IM	756				0.005 ^	NT
Parathion oxygen analog	IM	756				0.004 ^	NT
Pendimethalin	H	756				0.001 - 0.004	NT
Pentachloroaniline (PCA)	FM	756				0.001 ^	NT
Pentachlorobenzene (PCB)	FM	756				0.009 ^	NT
Pentachlorophenyl methyl sulfide	FM	756				0.001 ^	NT
Permethrin cis	IM	756	206	27.2	0.002 - 0.008	0.001 - 0.004	3.0
Permethrin trans	IM	756	214	28.3	0.002 - 0.010	0.001 - 0.005	3.0
Phenothrin	I	756				0.003 - 0.009	0.01
Phenthoate	I	756				0.001 - 0.005	NT
Phorate	I	756				0.002 - 0.014	NT
Phorate oxygen analog	IM	756				0.001 ^	NT
Phorate sulfone	IM	756				0.004 ^	NT
Phorate sulfoxide	IM	756				0.002 ^	NT
Phosalone	I	756				0.003 ^	NT
Phosphamidon	I	756				0.004 ^	NT
Piperonyl butoxide	I	756	16	2.1	0.009 ^	0.005 ^	0.25
Pirimicarb	I	756				0.001 - 0.004	NT
Pirimiphos methyl	I	756				0.001 ^	NT
Profenofos	I	756				0.002 ^	NT
Prometryn	H	756				0.001 ^	NT
Pronamide	H	756				0.001 - 0.004	NT
Propachlor	H	756				0.001 - 0.004	NT
Propetamphos	I	756				0.002 ^	0.1
Propiconazole	F	756				0.030 ^	NT
Pymetrozine	I	756				0.005 ^	NT
Pyrimethanil	F	756				0.001 ^	NT
Pyriproxyfen	I	756				0.004 ^	0.10

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
Quinoxyfen	F	756				0.001 ^	NT
Quintozene (PCNB)	F	756				0.001 - 0.004	NT
Resmethrin cis	IM	739				0.003 ^	3.0
Resmethrin trans	IM	756				0.003 ^	3.0
Simazine	H	756				0.001 ^	NT
Spinetoram	I	756				0.001 - 0.004	7.5
Spinosad	I	756	24	3.2	0.002 - 0.013	0.001 - 0.004	85
Sulprofos	I	724				0.007 - 0.014	NT
Tebuconazole	F	756				0.007 ^	NT
Tebufenozide	I	756				0.012 ^	NT
Tebuthiuron	H	756				0.001 ^	NT
Tecnazene	P	756				0.001 ^	NT
Tefluthrin	I	756				0.001 ^	NT
Terbacil	H	756				0.004 ^	NT
Terbufos sulfone	IM	756				0.003 ^	NT
Tetrachlorvinphos	I	756				0.004 ^	0.05
Tetraconazole	F	756				0.001 ^	0.75
Tetradifon	I	756				0.003 ^	NT
Tetrahydrophthalimide (THPI)	FM	756				0.015 ^	NT
Thiabendazole	F	725				0.001 - 0.004	NT
Thiacloprid	I	756				0.001 - 0.004	NT
Thiamethoxam	I	756				0.005 - 0.018	0.02
Thiobencarb	H	742				0.004 ^	NT
Triadimefon	F	756				0.004 ^	NT
Trifluralin	H	756				0.001 ^	NT
Vinclozolin	F	756				0.001 ^	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 2013 and not to the current year. There may be instances where a tolerance was recently set or revoked that

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.

SU = Safe for use in spot and/or crevice treatments in food handling establishments.

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 2 and 3 in Appendix M 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:

A = Acaricide
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 Salmon

Appendix E shows residue detections for all compounds tested in salmon, 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 appendix apply to 2013 and not to the current year. There may be instances where tolerances have been recently set or revoked that would have an effect on whether a residue is violative or not.

In 2013, the Pesticide Data Program (PDP) analyzed 352 salmon samples. PDP detected three different residues (including metabolites), representing three pesticides, in the salmon samples.

Results for environmental contaminants across all commodities, including salmon, have been consolidated in a separate appendix because they have no registered uses and are not applied to crops (see Appendix H). PDP detected one environmental contaminant, DDT p,p', in the salmon samples.

APPENDIX E. DISTRIBUTION OF RESIDUES BY PESTICIDE IN SALMON

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Acetamiprid	I	293				0.002 ^	0.01
Acetochlor	H	352				0.005 ^	NA
Acibenzolar S methyl	L	58				0.020 ^	NA
Acrinathrin	I	352				0.010 ^	NA
Aldicarb sulfone	IM	88				0.005 ^	NA
Aldicarb sulfoxide	IM	29				0.005 ^	NA
Allethrin	I	59				0.025 ^	EX
Atrazine	H	352				0.002 ^	NA
Azinphos methyl	I	294				0.010 ^	NA
Azinphos methyl oxygen analog	IM	352	1	0.3	0.045 ^	0.010 ^	NA
Azoxystrobin	F	235				0.002 ^	NA
Bendiocarb	I	235				0.003 ^	SU
Benfluralin	H	352				0.010 ^	NA
Benoxacor	S	235				0.010 ^	NA
Bensulide	H	235				0.004 ^	NA
Bensulide oxygen analog	HM	235				0.002 ^	NA
Bifenthrin	I	352				0.005 ^	0.05
Boscalid	F	235				0.003 ^	NA
Bromacil	H	206				0.003 ^	NA
Bupirimate	F	59				0.001 ^	NA
Buprofezin	I	117				0.001 ^	NA
Carbaryl	I	352				0.003 ^	NA
Carbendazim (MBC)	F	264	1	0.4	0.001 ^	0.001 ^	NA
Carbofuran	I	352				0.002 ^	NA
Carfentrazone ethyl	H	293				0.005 ^	0.30
Chlorantraniliprole	I	323				0.010 ^	NA
Chlorfenapyr	I	352				0.015 ^	0.01
Chlorpropham	H	352				0.020 ^	NA
Chlorpyrifos	I	352				0.005 ^	0.1
Chlorpyrifos oxygen analog	IM	264				0.002 ^	0.1
Clomazone	H	352				0.005 ^	NA
Clothianidin	I	293				0.010 ^	NA
Coumaphos	I	352				0.010 ^	NA
Coumaphos oxygen analog	IM	294				0.010 ^	NA
Cyfluthrin	I	352				0.004 ^	0.05
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	I	352				0.005 ^	0.01
Cymoxanil	F	206				0.005 ^	NA
Cypermethrin	I	352	1	0.3	0.018 ^	0.010 ^	0.05
Cyphenothrin	I	352				0.015 ^	NA
Cyproconazole	F	88				0.010 ^	NA
Cyprodinil	F	88				0.005 ^	NA
DCPA	H	352				0.002 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
DEF (Tribufos)	H	352				0.002 ^	NA
Deltamethrin (includes parent Tralomethrin)	I	352				0.015 ^	0.05
Diazinon	I	323				0.005 ^	NA
Dichlobenil	H	352				0.010 ^	NA
Dichlorvos (DDVP)	I	323				0.020 ^	0.5
Diclofop methyl	H	352				0.001 ^	NA
Dicloran	F	322				0.016 ^	NA
Dicofol p,p'	I	352				0.010 ^	NA
Difenoconazole	F	88				0.010 ^	NA
Diflubenzuron	I	264				0.002 ^	NA
Dimethenamid	H	323				0.002 ^	NA
Dimethoate	I	88				0.005 ^	NA
Dimethomorph	F	88				0.003 ^	NA
Dinotefuran	I	113				0.003 ^	0.01
Diphenylamine (DPA)	F	352				0.002 ^	NA
Disulfoton oxon	IM	352				0.001 ^	NA
Disulfoton sulfone	IM	352				0.020 ^	NA
Disulfoton sulfoxide	IM	352				0.005 ^	NA
Diuron	H	323				0.002 ^	2.0 [1]
Endosulfan I	I	352				0.010 ^	NA
Endosulfan II	IM	352				0.015 ^	NA
Endosulfan sulfate	IM	322				0.005 ^	NA
Esfenvalerate+Fenvalerate Total	I	322				0.005 ^	0.05
Ethalfluralin	H	352				0.005 ^	NA
Ethion	I	206				0.001 ^	NA
Ethion mono oxon	IM	206				0.001 ^	NA
Ethoprop	I	176				0.002 ^	NA
Etoxazole	A	88				0.005 ^	NA
Famoxadone	F	323				0.025 ^	NA
Fenamidone	F	323				0.005 ^	NA
Fenazaquin	I	59				0.005 ^	NA
Fenbuconazole	F	264				0.005 ^	NA
Fenhexamid	F	352				0.013 ^	NA
Fenpropathrin	I	352				0.020 ^	NA
Fenpyroximate	A	294				0.005 ^	NA
Fipronil sulfone (MB46136)	IM	352				0.050 ^	NA
Flonicamid	I	293				0.006 ^	NA
Flubendiamide	I	352				0.035 ^	NA
Fludioxonil	F	352				0.025 ^	NA
Flufenoxuron	I	235				0.001 ^	NA
Flumioxazin	H	177				0.010 ^	1.5 [2]
Fluopicolide	F	352				0.015 ^	NA
Fluquinconazole	F	206				0.010 ^	NA
Fluridone	H	234				0.001 ^	0.5

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
Flusilazole	F	177				0.010 ^	NA
Flutolanil	F	323				0.002 ^	NA
Flutriafol	F	146				0.010 ^	NA
Fluvalinate	I	352				0.050 ^	NA
Folpet	F	59				0.030 ^	NA
Hexythiazox	I	352				0.002 ^	NA
Hydroprene	R	264				0.10 ^	0.2
3-Hydroxycarbofuran	IM	323				0.003 ^	NA
Imidacloprid	I	323				0.003 ^	0.05
Imiprothrin	I	352				0.010 ^	NA
Indaziflam	H	176				0.001 ^	NA
Indoxacarb	I	352				0.020 ^	NA
Iprodione	F	352				0.040 ^	NA
Kresoxim-methyl	F	206				0.010 ^	NA
Lindane (BHC gamma)	I	352				0.013 ^	NA
Linuron	H	235				0.003 ^	NA
Lufenuron	I	206				0.020 ^	NA
Malathion	I	323				0.002 ^	NA
Malathion oxygen analog	IM	293				0.002 ^	NA
Mandipropamid	F	265				0.002 ^	NA
Metalaxyl/Mefenoxam *	F	352				0.001 ^	NA
Methidathion	I	352				0.010 ^	NA
Methiocarb sulfone	IM	206				0.001 ^	NA
Methiocarb sulfoxide	IM	206				0.001 ^	NA
Methomyl	I	323				0.030 ^	NA
Methoxyfenozide	I	294				0.003 ^	NA
Metolachlor	H	293				0.001 ^	NA
Metribuzin	H	264				0.005 ^	NA
Mevinphos	I	293				0.002 ^	NA
MGK-264	I	352				0.10 ^	5
Mirex	I	323				0.001 ^	NA
Myclobutanil	F	323				0.003 ^	NA
Napropamide	H	352				0.005 ^	NA
Norflurazon	H	265				0.002 ^	NA
Norflurazon desmethyl	HM	352				0.005 ^	NA
Oryzalin	H	177				0.020 ^	NA
Oxadiazon	H	352				0.010 ^	NA
Oxamyl	I	88				0.003 ^	NA
Oxamyl oxime	IM	83				0.003 ^	NA
Oxydemeton methyl sulfone	IM	352				0.002 ^	NA
Oxyfluorfen	H	352				0.050 ^	NA
Paclobutrazol	P	147				0.010 ^	NA
Parathion	I	352				0.005 ^	NA
Parathion methyl	I	352				0.010 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Parathion methyl oxygen analog	IM	323				0.020 ^	NA
Pendimethalin	H	352				0.050 ^	NA
Pentachloroaniline (PCA)	FM	352				0.004 ^	NA
Pentachlorobenzene (PCB)	FM	352				0.005 ^	NA
Pentachlorophenyl methyl sulfide	FM	352				0.005 ^	NA
Permethrin cis	IM	352				0.010 ^	NA
Permethrin trans	IM	352				0.010 ^	NA
Phenothrin	I	352				0.050 ^	0.01
o-Phenylphenol	F	352				0.005 ^	NA
Phorate	I	352				0.010 ^	NA
Phorate oxygen analog	IM	323				0.010 ^	NA
Phorate sulfone	IM	322				0.010 ^	NA
Phorate sulfoxide	IM	352				0.010 ^	NA
Phosalone	I	206				0.001 ^	NA
Phosmet	I	352				0.010 ^	NA
Piperonyl butoxide	I	352				0.005 ^	EX
Pirimiphos methyl	I	263				0.001 ^	NA
Pronamide	H	352				0.002 ^	NA
Propargite	I	352				0.050 ^	NA
Propetamphos	I	322				0.010 ^	0.1
Propiconazole	F	293				0.010 ^	NA
Prothiofos	I	146				0.010 ^	NA
Pyraclostrobin	F	293				0.003 ^	NA
Pyraflufen ethyl	H	206				0.010 ^	NA
Pyridaben	I	352				0.005 ^	NA
Pyrimethanil	F	234				0.050 ^	NA
Pyriproxyfen	I	235				0.001 ^	0.10
Quinoxyfen	F	352				0.020 ^	NA
Quintozene (PCNB)	F	352				0.004 ^	NA
Resmethrin cis	IM	352				0.050 ^	3.0
Resmethrin trans	IM	352				0.050 ^	3.0
Saflufenacil	H	323				0.010 ^	NA
Sethoxydim	H	322				0.003 ^	NA
Simazine	H	323				0.005 ^	NA
Spirodiclofen	A	323				0.010 ^	NA
Spiromesifen	I	352				0.010 ^	NA
Spirotetramat	I	88				0.002 ^	NA
Tebuconazole	F	88				0.010 ^	NA
Tebufenozide	I	323				0.002 ^	NA
Tebufenpyrad	I	206				0.010 ^	NA
Tefluthrin	I	352				0.002 ^	NA
Terbacil	H	352				0.010 ^	NA
Terbutryn	H	352				0.025 ^	NA
Tetraconazole	F	206				0.010 ^	NA

Pesticide	Pest. Type	Number of Samples	Samples with Detections	% of Samples with Detects	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Tetradifon	I	352				0.010 ^	NA
Tetrahydrophthalimide (THPI)	FM	352				0.010 ^	NA
Tetramethrin	I	352				0.005 ^	NA
Thiacloprid	I	206				0.001 ^	NA
Thiamethoxam	I	323				0.003 ^	0.02
Thiazopyr	H	294				0.008 ^	NA
Thiobencarb	H	352				0.010 ^	NA
Triazophos	I	206				0.001 ^	NA
Trichlorfon	I	323				0.010 ^	NA
Trifloxystrobin	F	235				0.002 ^	NA
Trifloxysulfuron	H	147				0.020 ^	NA
Triflumizole	F	88				0.010 ^	NA
Trifluralin	H	352				0.001 ^	NA
Triforine	F	206				0.010 ^	NA
Vinclozolin	F	352				0.010 ^	NA

Many of the listed tolerances are the sum of a parent compound and metabolite(s)/isomer(s). The reader is advised to refer to EPA for the complete listing of compounds in tolerance expressions. The cited tolerances apply to 2013 and not to the current year. There may be instances where a tolerance was recently set or revoked that would have an effect on whether a residue is violative or not.

NOTES

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

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

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

SU = Safe for use in spot and/or crevice treatments in food handling establishments.

1 = Specific tolerance for Diuron in freshwater, farm-raised finfish.

2 = Specific tolerance for Flumioxazin in freshwater fish.

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

Pesticide Types:

A = Acaricide
F = Fungicide, FM = Fungicide Metabolite
H = Herbicide, HM = Herbicide Metabolite
I = Insecticide, IM = Insecticide Metabolite
L = Plant Activator
P = Plant Growth Regulator
R = Insect Growth Regulator
S = Herbicide Safener

Appendix F

Distribution of Residues by Pesticide in Groundwater

Appendix F shows residue detections for all compounds tested in groundwater, including range of values detected and range of Limits of Detection (LODs) for each pair in parts per trillion (ppt). The U.S. Environmental Protection Agency (EPA) Human Health Benchmarks for Pesticides (HHBPs) are also shown.

In 2013, the Pesticide Data Program (PDP) analyzed 14 groundwater samples from 14 different collection sites, including 3 from school/childcare wells and 11 from private residential wells. PDP detected 25 different residues (including metabolites), representing 17 pesticides, in the groundwater samples. Most of the detections were for herbicides. The samples with detectable residues came from seven different sites.

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

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

APPENDIX F. DISTRIBUTION OF RESIDUES BY PESTICIDE IN GROUNDWATER

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt [1]
2,4,5-T (H)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				0.84 - 15	
2,4,5-TP (H)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				0.68 - 15	
2,4-D (H)						
Groundwater - Private Residence Wells	11	1	9.1	4.2 ^	2.5 ^	
Groundwater - School/Daycare Wells	3	1	33.3	9.5 ^	0.65 - 2.5	
2,4-DB (H)						
Groundwater - Private Residence Wells	11				6.0 ^	
Groundwater - School/Daycare Wells	3				6.0 - 39	
Acetamiprid (I)						
Groundwater - Private Residence Wells	11				7.5 ^	497,000
Groundwater - School/Daycare Wells	3				1.7 - 7.5	497,000
Acetochlor (H)						
Groundwater - Private Residence Wells	11				10 ^	140,000
Groundwater - School/Daycare Wells	3				9.2 - 10	140,000
Acetochlor ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	11	1	9.1	39 ^	9.0 ^	
Groundwater - School/Daycare Wells	3	1	33.3	2.7 ^	1.6 - 9.0	
Acetochlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	11				10 ^	
Groundwater - School/Daycare Wells	3				1.4 - 10	
Alachlor (H)						
Groundwater - Private Residence Wells	11				10 ^	
Groundwater - School/Daycare Wells	3				7.8 - 10	
Alachlor ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	11	1	9.1	778 ^	12.5 ^	
Groundwater - School/Daycare Wells	3	1	33.3	14 ^	1.7 - 12.5	
Alachlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	11				10 ^	
Groundwater - School/Daycare Wells	3	1	33.3	2.9 ^	0.61 - 10	
Aldicarb sulfone (IM)						
Groundwater - Private Residence Wells	11				4.5 ^	
Groundwater - School/Daycare Wells	3				4.5 - 7.6	
Aldicarb sulfoxide (IM)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				15 ^	
Aminopyralid (H)						
Groundwater - School/Daycare Wells	2				4.5 ^	3,500,000
Atrazine (H)						
Groundwater - Private Residence Wells	11	1	9.1	86 ^	10 ^	
Groundwater - School/Daycare Wells	3	1	33.3	41 ^	0.66 - 10	
Azinphos methyl (I)						
Groundwater - School/Daycare Wells	2				10 ^	11,000
Azinphos methyl oxygen analog (IM)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				4.5 - 7.5	
Azoxystrobin (F)						
Groundwater - Private Residence Wells	11	1	9.1	11.8 ^	3.0 ^	1,260,000
Groundwater - School/Daycare Wells	3				0.80 - 3.0	1,260,000

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]
Benfluralin (H)						
Groundwater - Private Residence Wells	11				50 ^	35,000
Groundwater - School/Daycare Wells	3				3.6 - 50	35,000
Bensulfuron methyl (H)						
Groundwater - Private Residence Wells	11				5.0 ^	1,400,000
Groundwater - School/Daycare Wells	3				1.5 - 5.0	1,400,000
Bentazon (H)						
Groundwater - Private Residence Wells	11				1.5 ^	
Groundwater - School/Daycare Wells	3	1	33.3	0.73 ^	0.18 - 1.5	
Bifenthrin (I)						
Groundwater - Private Residence Wells	11				10 ^	
Groundwater - School/Daycare Wells	3				3.2 - 10	
Boscalid (F)						
Groundwater - Private Residence Wells	11				60 ^	1,526,000
Groundwater - School/Daycare Wells	1				60 ^	1,526,000
Bromacil (H)						
Groundwater - Private Residence Wells	11				9.0 ^	
Groundwater - School/Daycare Wells	3				1.2 - 9.0	
Bromuconazole 46 (trans) (FM)						
Groundwater - Private Residence Wells	11				3.0 ^	
Groundwater - School/Daycare Wells	3				3.0 - 3.2	
Bromuconazole 47 (cis) (FM)						
Groundwater - Private Residence Wells	11				3.0 ^	
Groundwater - School/Daycare Wells	3				3.0 - 5.4	
Butachlor (H)						
Groundwater - School/Daycare Wells	2				1.9 ^	
Butylate (H)						
Groundwater - School/Daycare Wells	2				1.8 ^	
Carbaryl (I)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				1.2 - 7.5	
Carbendazim (MBC) (F)						
Groundwater - Private Residence Wells	11				3.0 ^	175,000
Groundwater - School/Daycare Wells	1				3.0 ^	175,000
Carbofuran (I)						
Groundwater - Private Residence Wells	11				4.0 ^	
Groundwater - School/Daycare Wells	3				0.41 - 4.0	
Chlorantraniliprole (I)						
Groundwater - Private Residence Wells	11				15 ^	11,060,000
Groundwater - School/Daycare Wells	3				3.0 - 15	11,060,000
Chlorfenvinphos (I)						
Groundwater - School/Daycare Wells	2				9.6 ^	
Chlorimuron ethyl (H)						
Groundwater - Private Residence Wells	11				6.0 ^	630,000
Groundwater - School/Daycare Wells	3				5.7 - 6.0	630,000
Chlorothalonil (F)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3				5.2 - 30	
Chlorpyrifos (I)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3				3.0 - 30	
Chlorpyrifos oxygen analog (IM)						
Groundwater - Private Residence Wells	11				12 ^	
Groundwater - School/Daycare Wells	3				12 - 21	

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]
Chlorsulfuron (H)						
Groundwater - School/Daycare Wells	2				1.7 ^	140,000
Clomazone (H)						
Groundwater - Private Residence Wells	11				30 ^	5,880,000
Groundwater - School/Daycare Wells	1				30 ^	5,880,000
Clopyralid (H)						
Groundwater - Private Residence Wells	11				12.5 ^	1,050,000
Groundwater - School/Daycare Wells	3				8.1 - 12.5	1,050,000
Clothianidin (I)						
Groundwater - Private Residence Wells	11				7.5 ^	686,000
Groundwater - School/Daycare Wells	3				4.8 - 7.5	686,000
Coumaphos (I)						
Groundwater - Private Residence Wells	11				15 ^	2,000
Groundwater - School/Daycare Wells	3				1.7 - 15	2,000
Coumaphos oxygen analog (IM)						
Groundwater - Private Residence Wells	11				9.0 ^	
Groundwater - School/Daycare Wells	3				1.6 - 9.0	
Cyanazine (H)						
Groundwater - Private Residence Wells	11				50 ^	
Groundwater - School/Daycare Wells	3				0.78 - 50	
Cycloate (H)						
Groundwater - School/Daycare Wells	2				3.3 ^	35,000
Cyfluthrin (I)						
Groundwater - Private Residence Wells	11				100 ^	168,000
Groundwater - School/Daycare Wells	3				40 - 100	168,000
Cyhalothrin, Lambda (I)						
Groundwater - Private Residence Wells	11				50 ^	7,000
Groundwater - School/Daycare Wells	1				50 ^	7,000
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (I)						
Groundwater - School/Daycare Wells	2				42 ^	7,000
Cypermethrin (I)						
Groundwater - School/Daycare Wells	2				74 ^	420,000
Cyphenothrin (I)						
Groundwater - School/Daycare Wells	2				14 ^	
Cyproconazole (F)						
Groundwater - School/Daycare Wells	2				0.72 ^	70,000
DCPA (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3				3.6 - 30	
Deltamethrin (includes parent Tralomethrin) (I)						
Groundwater - School/Daycare Wells	2				84 ^	
Desethyl atrazine (HM)						
Groundwater - Private Residence Wells	11	1	9.1	265 ^	10 ^	
Groundwater - School/Daycare Wells	3	1	33.3	41 ^	0.43 - 10	
Desethyl-desisopropyl atrazine (HM)						
Groundwater - Private Residence Wells	11	2	18.2	28.3 - 194	15 ^	
Groundwater - School/Daycare Wells	3				15 - 30	
Desisopropyl atrazine (HM)						
Groundwater - Private Residence Wells	11	1	9.1	83 ^	50 ^	
Groundwater - School/Daycare Wells	3	1	33.3	15 ^	3.1 - 50	
Diazinon (I)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3	1	33.3	81 ^	3.3 - 30	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt [1]
Diazinon oxygen analog (IM)						
Groundwater - Private Residence Wells	11				50 ^	
Groundwater - School/Daycare Wells	1				50 ^	
Dibromochloropropane (DBCP) (T)						
Groundwater - School/Daycare Wells	2				8.1 ^	
Dicamba (H)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				15 - 67	
Dichlobenil (H)						
Groundwater - Private Residence Wells	11				5.0 ^	70,000
Groundwater - School/Daycare Wells	1				5.0 ^	70,000
Dichlorprop (H)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				0.73 - 15	
Dichlorvos (DDVP) (I)						
Groundwater - Private Residence Wells	11				30 ^	4,000
Groundwater - School/Daycare Wells	1				30 ^	4,000
Dicofol p,p' (I)						
Groundwater - School/Daycare Wells	2				23 ^	
Dicrotophos (I)						
Groundwater - Private Residence Wells	11				7.5 ^	500
Groundwater - School/Daycare Wells	3				0.90 - 7.5	500
Difenoconazole (F)						
Groundwater - Private Residence Wells	11				7.5 ^	70,000
Groundwater - School/Daycare Wells	3				3.2 - 7.5	70,000
Dimethenamid/Dimethenamid P (H)						
Groundwater - Private Residence Wells	11				10 ^	350,000
Groundwater - School/Daycare Wells	3				0.91 - 10	350,000
Dimethenamid ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	11	1	9.1	3.0 ^	2.0 ^	
Groundwater - School/Daycare Wells	1				2.0 ^	
Dimethenamid oxanilic acid (HM)						
Groundwater - Private Residence Wells	11				3.0 ^	
Groundwater - School/Daycare Wells	3	1	33.3	1.0 ^	0.63 - 3.0	
Dimethoate (I)						
Groundwater - Private Residence Wells	11				50 ^	15,000
Groundwater - School/Daycare Wells	3				1.3 - 50	15,000
Dinoseb (H)						
Groundwater - School/Daycare Wells	2				0.35 ^	
Dinotefuran (I)						
Groundwater - Private Residence Wells	11				7.5 ^	140,000
Groundwater - School/Daycare Wells	1				7.5 ^	140,000
Disulfoton (I)						
Groundwater - Private Residence Wells	11				50 ^	
Groundwater - School/Daycare Wells	3				8.6 - 50	
Disulfoton sulfone (IM)						
Groundwater - Private Residence Wells	11				6.0 ^	
Groundwater - School/Daycare Wells	3				2.0 - 6.0	
Diuron (H)						
Groundwater - Private Residence Wells	11				4.0 ^	
Groundwater - School/Daycare Wells	3				1.6 - 4.0	
Epoxiconazole (F)						
Groundwater - Private Residence Wells	11				3.0 ^	140,000
Groundwater - School/Daycare Wells	3				2.2 - 3.0	140,000

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]
EPTC (H)						
Groundwater - Private Residence Wells	11				30 ^	350,000
Groundwater - School/Daycare Wells	3				5.0 - 30	350,000
Esfenvalerate (I)						
Groundwater - Private Residence Wells	11				100 ^	13,000
Groundwater - School/Daycare Wells	1				100 ^	13,000
Esfenvalerate+Fenvalerate Total (I)						
Groundwater - School/Daycare Wells	2				38 ^	
Ethalfluralin (H)						
Groundwater - Private Residence Wells	11				30 ^	280,000
Groundwater - School/Daycare Wells	1				30 ^	280,000
Ethion (I)						
Groundwater - School/Daycare Wells	2				25 ^	
Ethion mono oxon (IM)						
Groundwater - School/Daycare Wells	2				18 ^	
Ethofumesate (H)						
Groundwater - Private Residence Wells	11				30 ^	1,980,000
Groundwater - School/Daycare Wells	3				3.3 - 30	1,980,000
Ethoprop (I)						
Groundwater - School/Daycare Wells	2				5.3 ^	10,000
Fenamiphos (I)						
Groundwater - Private Residence Wells	11				100 ^	
Groundwater - School/Daycare Wells	1				100 ^	
Fenamiphos sulfone (IM)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				0.79 - 7.5	
Fenamiphos sulfoxide (IM)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				1.4 - 7.5	
Fenbuconazole (F)						
Groundwater - School/Daycare Wells	2				2.4 ^	210,000
Fenitrothion (I)						
Groundwater - School/Daycare Wells	2				13 ^	9,000
Fenitrothion oxygen analog (IM)						
Groundwater - Private Residence Wells	11				200 ^	
Groundwater - School/Daycare Wells	3				1.8 - 200	
Fenpropathrin (I)						
Groundwater - School/Daycare Wells	2				14 ^	175,000
Fenthion (I)						
Groundwater - School/Daycare Wells	2				22 ^	500
Fenthion oxygen analog (IM)						
Groundwater - Private Residence Wells	8				50 ^	
Fipronil (I)						
Groundwater - School/Daycare Wells	2				0.35 ^	1,000
Flufenacet oxanilic acid (HM)						
Groundwater - Private Residence Wells	11				2.5 ^	
Groundwater - School/Daycare Wells	3				0.75 - 2.5	
Flumetsulam (H)						
Groundwater - Private Residence Wells	11				15 ^	7,000,000
Groundwater - School/Daycare Wells	3				8.6 - 15	7,000,000
Fluometuron (H)						
Groundwater - Private Residence Wells	11				50 ^	
Groundwater - School/Daycare Wells	3				1.6 - 50	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt [1]
Fluroxypyr-meptyl (H)						
Groundwater - School/Daycare Wells	2				4.9 ^	
Fluvalinate (as Tau-Fluvalinate) (I)						
Groundwater - School/Daycare Wells	2				130 ^	35,000
Fonofos (I)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	1				30 ^	
Halosulfuron methyl (H)						
Groundwater - Private Residence Wells	11				9.0 ^	700,000
Groundwater - School/Daycare Wells	3				1.8 - 9.0	700,000
Hexaconazole (F)						
Groundwater - Private Residence Wells	11				3.0 ^	140,000
Groundwater - School/Daycare Wells	3				3.0 - 3.3	140,000
Hexazinone (H)						
Groundwater - Private Residence Wells	11	2	18.2	5.0 - 11.1	3.0 ^	
Groundwater - School/Daycare Wells	3				0.50 - 3.0	
Hydroxy atrazine (HM)						
Groundwater - Private Residence Wells	11	1	9.1	3.0 ^	2.0 ^	70,000
Groundwater - School/Daycare Wells	3	1	33.3	25 ^	1.2 - 2.0	70,000
3-Hydroxycarbofuran (IM)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				3.0 - 15	
Imazamethabenz acid (H)						
Groundwater - Private Residence Wells	11				3.0 ^	
Groundwater - School/Daycare Wells	3				0.60 - 3.0	
Imazamethabenz methyl (H)						
Groundwater - Private Residence Wells	11				1.5 ^	1,750,000
Groundwater - School/Daycare Wells	3				0.31 - 1.5	1,750,000
Imazamox (H)						
Groundwater - Private Residence Wells	11				4.0 ^	
Groundwater - School/Daycare Wells	3				1.7 - 4.0	
Imazapic (H)						
Groundwater - Private Residence Wells	11				3.0 ^	3,500,000
Groundwater - School/Daycare Wells	3				0.90 - 3.0	3,500,000
Imazapyr (H)						
Groundwater - Private Residence Wells	11				2.5 ^	17,500,000
Groundwater - School/Daycare Wells	3	1	33.3	2.0 ^	1.0 - 2.5	17,500,000
Imazaquin (H)						
Groundwater - Private Residence Wells	11				5.0 ^	1,750,000
Groundwater - School/Daycare Wells	3				1.1 - 5.0	1,750,000
Imazethapyr (H)						
Groundwater - Private Residence Wells	11				2.0 ^	17,500,000
Groundwater - School/Daycare Wells	3				1.0 - 2.0	17,500,000
Imidacloprid (H)						
Groundwater - Private Residence Wells	11				6.0 ^	399,000
Groundwater - School/Daycare Wells	3				3.6 - 6.0	399,000
Isoxaflutole (H)						
Groundwater - Private Residence Wells	11				12 ^	140,000
Groundwater - School/Daycare Wells	1				12 ^	140,000
Isoxaflutole degradate (HM)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	1				15 ^	
Lindane (BHC gamma) (I)						
Groundwater - School/Daycare Wells	2				20 ^	

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]
Linuron (H)						
Groundwater - Private Residence Wells	11				6.0 ^	54,000
Groundwater - School/Daycare Wells	3				1.6 - 6.0	54,000
Malathion (I)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3				10 - 30	
Malathion oxygen analog (IM)						
Groundwater - Private Residence Wells	11				600 ^	
Groundwater - School/Daycare Wells	3				0.37 - 600	
MCPA (H)						
Groundwater - Private Residence Wells	11				1.5 ^	
Groundwater - School/Daycare Wells	3				0.39 - 1.5	
MCPB (H)						
Groundwater - Private Residence Wells	11				6.0 ^	
Groundwater - School/Daycare Wells	3				6.0 - 12	
Mecoprop (MCPP) (H)						
Groundwater - Private Residence Wells	11				15 ^	280,000
Groundwater - School/Daycare Wells	3	1	33.3	2.0 ^	0.31 - 15	280,000
Mesotrione (H)						
Groundwater - Private Residence Wells	11				15 ^	49,000
Groundwater - School/Daycare Wells	1				15 ^	49,000
Metalaxyl/Mefenoxam * (F)						
Groundwater - Private Residence Wells	11				2.5 ^	
Groundwater - School/Daycare Wells	3				1.0 - 2.5	
Methidathion (I)						
Groundwater - Private Residence Wells	11				100 ^	11,000
Groundwater - School/Daycare Wells	1				100 ^	11,000
Methomyl (I)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				7.3 - 7.5	
Methoxychlor Total (I)						
Groundwater - Private Residence Wells	11				50 ^	
Groundwater - School/Daycare Wells	1				50 ^	
Methoxychlor olefin (IM)						
Groundwater - School/Daycare Wells	2				3.6 ^	
Methoxychlor p,p' (IM)						
Groundwater - School/Daycare Wells	2				19 ^	
Metolachlor (H)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3	1	33.3	9.3 ^	1.5 - 15	
Metolachlor ethanesulfonic acid (HM)						
Groundwater - Private Residence Wells	11	3	27.3	5.0 - 1308	3.0 ^	
Groundwater - School/Daycare Wells	3	1	33.3	340 ^	0.36 - 3.0	
Metolachlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	11	1	9.1	75.1 ^	3.0 ^	
Groundwater - School/Daycare Wells	3	1	33.3	58 ^	1.8 - 3.0	
Metribuzin (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	1				30 ^	
Metribuzin DA (HM)						
Groundwater - Private Residence Wells	11				6.0 ^	
Groundwater - School/Daycare Wells	1				6.0 ^	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt [1]
Metsulfuron methyl (H)						
Groundwater - Private Residence Wells	11				7.0 ^	
Groundwater - School/Daycare Wells	3				1.5 - 7.0	
Myclobutanil (F)						
Groundwater - Private Residence Wells	11				50 ^	175,000
Groundwater - School/Daycare Wells	3				1.6 - 50	175,000
1-Naphthol (IM)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	1				30 ^	
Neburon (H)						
Groundwater - Private Residence Wells	11				3.0 ^	
Groundwater - School/Daycare Wells	3				3.0 - 4.8	
Nicosulfuron (H)						
Groundwater - Private Residence Wells	11				8.0 ^	8,750,000
Groundwater - School/Daycare Wells	3				1.7 - 8.0	8,750,000
Norflurazon (H)						
Groundwater - Private Residence Wells	11				6.0 ^	105,000
Groundwater - School/Daycare Wells	3				4.8 - 6.0	105,000
Norflurazon desmethyl (HM)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				1.8 - 15	
Omethoate (IM)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				0.30 - 7.5	
Oxadiazon (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	1				30 ^	
Oxadixyl (F)						
Groundwater - Private Residence Wells	11				15 ^	
Groundwater - School/Daycare Wells	3				1.8 - 15	
Oxamyl (I)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				3.0 - 7.5	
Oxydemeton methyl (I)						
Groundwater - Private Residence Wells	11				6.0 ^	700
Groundwater - School/Daycare Wells	3				0.97 - 6.0	700
Oxydemeton methyl sulfone (IM)						
Groundwater - School/Daycare Wells	2				2.0 ^	
Parathion (I)						
Groundwater - School/Daycare Wells	2				15 ^	200
Parathion methyl (I)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3				30 - 53	
Parathion methyl oxygen analog (IM)						
Groundwater - Private Residence Wells	11				7.5 ^	
Groundwater - School/Daycare Wells	3				3.6 - 7.5	
Pendimethalin (H)						
Groundwater - Private Residence Wells	11				30 ^	210,000
Groundwater - School/Daycare Wells	1				30 ^	210,000
Permethrin cis (IM)						
Groundwater - Private Residence Wells	11				50 ^	1,750,000
Groundwater - School/Daycare Wells	3				9.0 - 50	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 - Private Residence Wells	11				50 ^	1,750,000
Groundwater - School/Daycare Wells	3				7.5 - 50	1,750,000
Phenothrin (I)						
Groundwater - School/Daycare Wells	2				27 ^	
Phorate (I)						
Groundwater - Private Residence Wells	11				30 ^	4,000
Groundwater - School/Daycare Wells	3				12 - 30	4,000
Phorate oxygen analog (IM)						
Groundwater - Private Residence Wells	11				50 ^	
Groundwater - School/Daycare Wells	1				50 ^	
Phorate sulfone (IM)						
Groundwater - Private Residence Wells	11				100 ^	
Groundwater - School/Daycare Wells	3				1.8 - 100	
Phorate sulfoxide (IM)						
Groundwater - Private Residence Wells	11				100 ^	
Groundwater - School/Daycare Wells	3				0.44 - 100	
Phosmet (I)						
Groundwater - Private Residence Wells	11				100 ^	40,000
Groundwater - School/Daycare Wells	1				100 ^	40,000
Picloram (H)						
Groundwater - Private Residence Wells	11				12.5 ^	
Groundwater - School/Daycare Wells	3				10 - 12.5	
Prallethrin (I)						
Groundwater - School/Daycare Wells	2				25 ^	350,000
Prometon (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3	1	33.3	1.5 ^	0.17 - 30	
Prometryn (H)						
Groundwater - Private Residence Wells	11				1.0 ^	280,000
Groundwater - School/Daycare Wells	3				0.17 - 1.0	280,000
Propachlor (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3				0.64 - 30	
Propachlor ESA (HM)						
Groundwater - Private Residence Wells	11				9.0 ^	
Groundwater - School/Daycare Wells	1				9.0 ^	
Propachlor oxanilic acid (HM)						
Groundwater - Private Residence Wells	11				3.0 ^	
Groundwater - School/Daycare Wells	3				1.4 - 3.0	
Propanil (H)						
Groundwater - Private Residence Wells	11				30 ^	63,000
Groundwater - School/Daycare Wells	3				2.2 - 30	63,000
Propazine (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3	1	33.3	0.70 ^	0.42 - 30	
Propiconazole (F)						
Groundwater - Private Residence Wells	11				50 ^	700,000
Groundwater - School/Daycare Wells	3				3.4 - 50	700,000
Propoxur (I)						
Groundwater - Private Residence Wells	11				6.0 ^	
Groundwater - School/Daycare Wells	1				6.0 ^	

Pesticide (Type) / Commodity - Well Type	Number of Samples	Samples with Detections	% of Samples w/ Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA HHBP, ppt [1]
Prosulfuron (H)						
Groundwater - School/Daycare Wells	2				1.5 ^	371,000
Pyrasulfotole (H)						
Groundwater - School/Daycare Wells	2				2.8 ^	70,000
Pyroxsulam (H)						
Groundwater - School/Daycare Wells	2				3.9 ^	7,000,000
Resmethrin (I)						
Groundwater - School/Daycare Wells	2				7.8 ^	245,000
Saflufenacil (H)						
Groundwater - Private Residence Wells	11				4.5 ^	322,000
Groundwater - School/Daycare Wells	1				4.5 ^	322,000
Siduron (H)						
Groundwater - Private Residence Wells	11				2.0 ^	1,050,000
Groundwater - School/Daycare Wells	3				1.0 - 2.0	1,050,000
Simazine (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3	1	33.3	5.4 ^	0.71 - 30	
Sulfometuron methyl (H)						
Groundwater - Private Residence Wells	11				2.5 ^	1,925,000
Groundwater - School/Daycare Wells	3				0.76 - 2.5	1,925,000
Tebuconazole (F)						
Groundwater - Private Residence Wells	11				50 ^	203,000
Groundwater - School/Daycare Wells	3				2.1 - 50	203,000
Tebupirimfos (I)						
Groundwater - Private Residence Wells	11				30 ^	100
Groundwater - School/Daycare Wells	1				30 ^	100
Tebuthiuron (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3	1	33.3	0.35 ^	0.21 - 30	
Tefluthrin (I)						
Groundwater - School/Daycare Wells	2				2.1 ^	
Tembotrione (H)						
Groundwater - Private Residence Wells	11				15 ^	3,000
Groundwater - School/Daycare Wells	3				5.5 - 15	3,000
Terbacil (H)						
Groundwater - School/Daycare Wells	2				0.71 ^	
Terbufos (I)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	3				6.3 - 30	
Terbufos sulfone (IM)						
Groundwater - School/Daycare Wells	2				1.6 ^	
Tetrachlorvinphos (I)						
Groundwater - School/Daycare Wells	2				7.5 ^	296,000
Tetraconazole (F)						
Groundwater - Private Residence Wells	11				30 ^	51,000
Groundwater - School/Daycare Wells	3				1.2 - 30	51,000
Tetradifon (I)						
Groundwater - School/Daycare Wells	2				7.2 ^	
Tetramethrin (I)						
Groundwater - School/Daycare Wells	2				28 ^	
Thiamethoxam (I)						
Groundwater - Private Residence Wells	11				7.5 ^	84,000
Groundwater - School/Daycare Wells	3				6.1 - 7.5	84,000

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]
Thifensulfuron (H)						
Groundwater - School/Daycare Wells	2				3.4 ^	
Thifensulfuron methyl (H)						
Groundwater - Private Residence Wells	11				5.0 ^	301,000
Groundwater - School/Daycare Wells	1				5.0 ^	301,000
Thiobencarb (H)						
Groundwater - Private Residence Wells	11				2.5 ^	70,000
Groundwater - School/Daycare Wells	3				2.5 - 3.9	70,000
Tri Allate (H)						
Groundwater - Private Residence Wells	11				30 ^	175,000
Groundwater - School/Daycare Wells	3				12 - 30	175,000
Triadimefon (F)						
Groundwater - School/Daycare Wells	2				1.3 ^	238,000
Triadimenol (F)						
Groundwater - Private Residence Wells	11				6.0 ^	24,000
Groundwater - School/Daycare Wells	3				6.0 - 11	24,000
Triasulfuron (H)						
Groundwater - Private Residence Wells	11				7.0 ^	70,000
Groundwater - School/Daycare Wells	3				1.7 - 7.0	70,000
Triclopyr (H)						
Groundwater - Private Residence Wells	11	1	9.1	25 ^	15 ^	350,000
Groundwater - School/Daycare Wells	3				1.6 - 15	350,000
Trifluralin (H)						
Groundwater - Private Residence Wells	11				30 ^	
Groundwater - School/Daycare Wells	1				30 ^	
Triticonazole (F)						
Groundwater - Private Residence Wells	11				500 ^	1,190,000
Groundwater - School/Daycare Wells	3				4.7 - 500	1,190,000

NOTES

[1] = EPA HHBP values have been multiplied by a factor of 1,000,000 as a basis for comparison using a single scale. There is no intention to imply any more exactness in the value than that originally expressed by EPA.

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

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

Pesticide Types:

F = Fungicide, FM = Fungicide Metabolite
H = Herbicide, HM = Herbicide Metabolite
I = Insecticide, IM = Insecticide Metabolite
T = Nematicide

Appendix G

Distribution of Residues by Pesticide in Drinking Water

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

In 2013, the Pesticide Data Program (PDP) analyzed 100 drinking water samples, including 50 finished drinking water samples and 50 untreated (raw intake) drinking water samples. PDP detected 36 different residues (including metabolites), representing 27 pesticides, in finished drinking water and 40 different residues (including metabolites), representing 31 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.

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/drink/standards/hascience.cfm. Health Advisories and FAO criteria are not legally enforceable Federal standards, but serve as technical guidance to assist Federal, State, and local officials. The HHBP values were developed for compounds with no established MCLs or HAs, enabling citizens to better determine whether the detection of a pesticide in drinking water or source waters for drinking water may indicate a potential health risk. The HHBP values can be referenced at http://www.epa.gov/pesticides/hhbp/.

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

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

APPENDIX G. DISTRIBUTION OF RESIDUES BY PESTICIDE IN DRINKING WATER

Pesticide (Type) / Commodity	Number of Samples	Samples with Detects	% of Samples with Detects	Range of Values Detected, ppt	Range of LODs, ppt	EPA MCL, ppt [1]	EPA HA [2], ppt [1]	EPA FAO [3], ppt [1]	EPA HHBP, ppt [1]
2,4,5-T (H)									
Water, Finished	50				0.84 - 15		70,000		
Water, Untreated	50				0.84 - 15				
2,4,5-TP (H)									
Water, Finished	50				0.68 - 15	50,000	50,000		
Water, Untreated	50				0.68 - 15				
2,4-D (H)									
Water, Finished	50	49	98	1.1 - 84	0.65 - 2.5	70,000			
Water, Untreated	50	49	98	1.1 - 99	0.65 - 2.5				
2,4-DB (H)									
Water, Finished	50				6.0 - 39				
Water, Untreated	50				6.0 - 39				
Acetamiprid (I)									
Water, Finished	50				1.7 - 7.5				497,000
Water, Untreated	50				1.7 - 7.5				
Acetochlor (H)									
Water, Finished	50				9.2 - 10				140,000
Water, Untreated	50				9.2 - 10				
Acetochlor ethanesulfonic acid (HM)									
Water, Finished	50	36	72	2.7 - 350	1.6 - 9.0				
Water, Untreated	50	38	76	2.7 - 400	1.6 - 9.0				
Acetochlor oxanilic acid (HM)									
Water, Finished	50	26	52	2.3 - 890	1.4 - 10				
Water, Untreated	50	24	48	2.3 - 890	1.4 - 10				
Alachlor (H)									
Water, Finished	50				7.8 - 10	2,000			
Water, Untreated	50				7.8 - 10				
Alachlor ethanesulfonic acid (HM)									
Water, Finished	50	40	80	2.8 - 25	1.7 - 12.5				
Water, Untreated	50	40	80	2.8 - 30	1.7 - 12.5				
Alachlor oxanilic acid (HM)									
Water, Finished	50	32	64	1.0 - 12	0.61 - 10				
Water, Untreated	50	31	62	1.0 - 20	0.61 - 10				
Aldicarb sulfone (IM)									
Water, Finished	50				4.5 - 7.6	2,000	7,000		
Water, Untreated	50				4.5 - 7.6				
Aldicarb sulfoxide (IM)									
Water, Finished	50				15 ^	4,000	7,000		
Water, Untreated	50				15 ^				
Aminopyralid (H)									
Water, Finished	43				4.5 ^				3,500,000
Water, Untreated	43				4.5 ^				
Atrazine (H)									
Water, Finished	50	50	100	2.4 - 290	0.66 - 10	3,000			
Water, Untreated	50	50	100	2.7 - 580	0.66 - 10				
Azinphos methyl (I)									
Water, Finished	43				10 ^				11,000
Water, Untreated	43				10 ^				
Azinphos methyl oxygen analog (IM)									
Water, Finished	50				4.5 - 7.5				
Water, Untreated	50				4.5 - 7.5				
Azoxystrobin (F)									
Water, Finished	50	30	60	1.3 - 7.1	0.80 - 3.0				1,260,000
Water, Untreated	50	38	76	1.3 - 10	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	50				3.6 - 50				35,000
Water, Untreated	50				3.6 - 50				
Bensulfuron methyl (H)									
Water, Finished	50				1.5 - 5.0				1,400,000
Water, Untreated	50				1.5 - 5.0				
Bentazon (H)									
Water, Finished	50	35	70	0.30 - 14	0.18 - 1.5		200,000		
Water, Untreated	50	42	84	0.30 - 15	0.18 - 1.5				
Bifenthrin (I)									
Water, Finished	50				3.2 - 10				
Water, Untreated	50				3.2 - 10				
Boscalid (F)									
Water, Finished	7				60 ^				1,526,000
Water, Untreated	7				60 ^				
Bromacil (H)									
Water, Finished	50				1.2 - 9.0		70,000		
Water, Untreated	50				1.2 - 9.0				
Bromuconazole 46 (trans) (FM)									
Water, Finished	50				3.0 - 3.2				
Water, Untreated	50				3.0 - 3.2				
Bromuconazole 47 (cis) (FM)									
Water, Finished	50				3.0 - 5.4				
Water, Untreated	50				3.0 - 5.4				
Butachlor (H)									
Water, Finished	43				1.9 ^				
Water, Untreated	43				1.9 ^				
Butylate (H)									
Water, Finished	43				1.8 ^		400,000		
Water, Untreated	43				1.8 ^				
Carbaryl (I)									
Water, Finished	50				1.2 - 7.5				
Water, Untreated	50				1.2 - 7.5				
Carbendazim - MBC (F)									
Water, Finished	7				3.0 ^				175,000
Water, Untreated	7				3.0 ^				
Carbofuran (I)									
Water, Finished	50				0.41 - 4.0	40,000			
Water, Untreated	50				0.41 - 4.0				
Chlorantraniliprole (I)									
Water, Finished	50				3.0 - 15				11,060,000
Water, Untreated	50	3	6	5.0 ^	3.0 - 15				
Chlorfenvinphos (I)									
Water, Finished	43				9.6 ^				
Water, Untreated	43				9.6 ^				
Chlorimuron ethyl (H)									
Water, Finished	50	1	2	9.5 ^	5.7 - 6.0				630,000
Water, Untreated	50	7	14	9.5 - 35	5.7 - 6.0				
Chlorothalonil (F)									
Water, Finished	50				5.2 - 30				
Water, Untreated	50				5.2 - 30				
Chlorpyrifos (I)									
Water, Finished	50				3.0 - 30		2,000		
Water, Untreated	50				3.0 - 30			83	
Chlorpyrifos oxygen analog (IM)									
Water, Finished	50				12 - 21				
Water, Untreated	50				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	43				1.7 ^				140,000
Water, Untreated	43	1	2.3	2.8 ^	1.7 ^				
Clomazone (H)									
Water, Finished	7				30 ^				5,880,000
Water, Untreated	7				30 ^				
Clopyralid (H)									
Water, Finished	50				8.1 - 12.5				1,050,000
Water, Untreated	50				8.1 - 12.5				
Clothianidin (I)									
Water, Finished	50	3	6	8.0 - 18	4.8 - 7.5				686,000
Water, Untreated	50	4	8	8.0 - 45	4.8 - 7.5				
Coumaphos (I)									
Water, Finished	50				1.7 - 15				2,000
Water, Untreated	50				1.7 - 15				
Coumaphos oxygen analog (IM)									
Water, Finished	50				1.6 - 9.0				
Water, Untreated	50				1.6 - 9.0				
Cyanazine (H)									
Water, Finished	50				0.78 - 50		1,000		
Water, Untreated	50				0.78 - 50				
Cycloate (H)									
Water, Finished	43				3.3 ^				35,000
Water, Untreated	43				3.3 ^				
Cyfluthrin (I)									
Water, Finished	50				40 - 100				168,000
Water, Untreated	50				40 - 100				
Cyhalothrin, Lambda (I)									
Water, Finished	7				50 ^				7,000
Water, Untreated	7				50 ^				
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer) (I)									
Water, Finished	43				42 ^				7,000
Water, Untreated	43				42 ^				
Cypermethrin (I)									
Water, Finished	43				74 ^				420,000
Water, Untreated	43				74 ^				
Cyphenothrin (I)									
Water, Finished	43				14 ^				
Water, Untreated	43				14 ^				
Cyproconazole (F)									
Water, Finished	43				0.72 ^				70,000
Water, Untreated	43				0.72 ^				
DCPA (H)									
Water, Finished	50				3.6 - 30		70,000		
Water, Untreated	50				3.6 - 30				
Deltamethrin (includes parent Tralomethrin) (I)									
Water, Finished	43				84 ^				
Water, Untreated	43				84 ^				
Desethyl atrazine (HM)									
Water, Finished	50	50	100	2.1 - 330	0.43 - 10				
Water, Untreated	50	50	100	2.5 - 920	0.43 - 10				
Desethyl-desisopropyl atrazine (HM)									
Water, Finished	50	2	4	25 ^	15 - 30				
Water, Untreated	50	8	16	25 - 50	15 - 30				
Desisopropyl atrazine (HM)									
Water, Finished	50	28	56	5.2 - 110	3.1 - 50				
Water, Untreated	50	33	66	5.2 - 370	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	50				3.3 - 30		1,000		
Water, Untreated	50				3.3 - 30			170	
Diazinon oxygen analog (IM)									
Water, Finished	7				50 ^				
Water, Untreated	7				50 ^				
Dibromochloropropane - DBCP (T)									
Water, Finished	43				8.1 ^				
Water, Untreated	43				8.1 ^				
Dicamba (H)									
Water, Finished	50				15 - 67		4,000,000		
Water, Untreated	50				15 - 67				
Dichlobenil (H)									
Water, Finished	7				5.0 ^				70,000
Water, Untreated	7				5.0 ^				
Dichlorprop (H)									
Water, Finished	50	1	2	1.2 ^	0.73 - 15				
Water, Untreated	50	1	2	1.2 ^	0.73 - 15				
Dichlorvos - DDVP (I)									
Water, Finished	7				30 ^				4,000
Water, Untreated	7				30 ^				
Dicofol p,p' (I)									
Water, Finished	43				23 ^				
Water, Untreated	43				23 ^				
Dicrotophos (I)									
Water, Finished	50				0.90 - 7.5				500
Water, Untreated	50				0.90 - 7.5				
Difenoconazole (F)									
Water, Finished	50				3.2 - 7.5				70,000
Water, Untreated	50				3.2 - 7.5				
Dimethenamid/Dimethenamid P (H)									
Water, Finished	50	12	24	1.5 - 4.3	0.91 - 10				350,000
Water, Untreated	50	14	28	1.5 - 9.9	0.91 - 10				
Dimethenamid ethanesulfonic acid (HM)									
Water, Finished	7				2.0 ^				
Water, Untreated	7				2.0 ^				
Dimethenamid oxanilic acid (HM)									
Water, Finished	50	8	16	1.0 - 5.9	0.63 - 3.0				
Water, Untreated	50	8	16	1.0 - 37	0.63 - 3.0				
Dimethoate (I)									
Water, Finished	50				1.3 - 50				15,000
Water, Untreated	50				1.3 - 50				
Dinoseb (H)									
Water, Finished	43				0.35 ^	7,000	7,000		
Water, Untreated	43				0.35 ^				
Dinotefuran (I)									
Water, Finished	7				7.5 ^				140,000
Water, Untreated	7				7.5 ^				
Disulfoton (I)									
Water, Finished	50				8.6 - 50		700		
Water, Untreated	50				8.6 - 50				
Disulfoton sulfone (IM)									
Water, Finished	50				2.0 - 6.0				
Water, Untreated	50				2.0 - 6.0				
Diuron (H)									
Water, Finished	50	6	12	2.7 - 8.5	1.6 - 4.0				
Water, Untreated	50	9	18	2.7 - 7.0	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	50				2.2 - 3.0				140,000
Water, Untreated	50				2.2 - 3.0				
EPTC (H)									
Water, Finished	50				5.0 - 30				350,000
Water, Untreated	50				5.0 - 30				
Esfenvalerate (I)									
Water, Finished	7				100 ^				13,000
Water, Untreated	7				100 ^				
Esfenvalerate+Fenvalerate Total (I)									
Water, Finished	43				38 ^				
Water, Untreated	43				38 ^				
Ethalfluralin (H)									
Water, Finished	7				30 ^				280,000
Water, Untreated	7				30 ^				
Ethion (I)									
Water, Finished	43				25 ^				
Water, Untreated	43				25 ^				
Ethion mono oxon (IM)									
Water, Finished	43				18 ^				
Water, Untreated	43				18 ^				
Ethofumesate (H)									
Water, Finished	50				3.3 - 30				1,980,000
Water, Untreated	50				3.3 - 30				
Ethoprop (I)									
Water, Finished	43				5.3 ^				10,000
Water, Untreated	43				5.3 ^				
Fenamiphos (I)									
Water, Finished	7				100 ^		700		
Water, Untreated	7				100 ^				
Fenamiphos sulfone (IM)									
Water, Finished	50				0.79 - 7.5				
Water, Untreated	50				0.79 - 7.5				
Fenamiphos sulfoxide (IM)									
Water, Finished	50				1.4 - 7.5				
Water, Untreated	50				1.4 - 7.5				
Fenbuconazole (F)									
Water, Finished	43				2.4 ^				210,000
Water, Untreated	43				2.4 ^				
Fenitrothion (I)									
Water, Finished	43				13 ^				9,000
Water, Untreated	43				13 ^				
Fenitrothion oxygen analog (IM)									
Water, Finished	50				1.8 - 200				
Water, Untreated	50				1.8 - 200				
Fenpropathrin (I)									
Water, Finished	43				14 ^				175,000
Water, Untreated	43				14 ^				
Fenthion (I)									
Water, Finished	43				22 ^				500
Water, Untreated	43				22 ^				
Fenthion-O analog (IM)									
Water, Finished	2				50 ^				
Water, Untreated	2				50 ^				
Fipronil (I)									
Water, Finished	43				0.35 ^				1,000
Water, Untreated	43				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	50				0.75 - 2.5				
Water, Untreated	50				0.75 - 2.5				
Flumetsulam (H)									
Water, Finished	50				8.6 - 15				7,000,000
Water, Untreated	50				8.6 - 15				
Fluometuron (H)									
Water, Finished	50	1	2	2.7 ^	1.6 - 50		90,000		
Water, Untreated	50	1	2	2.7 ^	1.6 - 50				
Fluroxypyr-meptyl (H)									
Water, Finished	43				4.9 ^				
Water, Untreated	43				4.9 ^				
Fluvalinate (as Tau-Fluvalinate) (I)									
Water, Finished	43				130 ^				35,000
Water, Untreated	43				130 ^				
Fonofos (I)									
Water, Finished	7				30 ^		10,000		
Water, Untreated	7				30 ^				
Halosulfuron methyl (H)									
Water, Finished	50				1.8 - 9.0				700,000
Water, Untreated	50				1.8 - 9.0				
Hexaconazole (F)									
Water, Finished	50				3.0 - 3.3				140,000
Water, Untreated	50				3.0 - 3.3				
Hexazinone (H)									
Water, Finished	50				0.50 - 3.0		400,000		
Water, Untreated	50				0.50 - 3.0				
Hydroxy atrazine (HM)									
Water, Finished	50	50	100	2.0 - 550	1.2 - 2.0				70,000
Water, Untreated	50	50	100	2.0 - 950	1.2 - 2.0				
3-Hydroxycarbofuran (IM)									
Water, Finished	50				3.0 - 15				
Water, Untreated	50				3.0 - 15				
Imazamethabenz acid (H)									
Water, Finished	50	8	16	1.0 - 3.2	0.60 - 3.0				
Water, Untreated	50	7	14	1.0 - 3.3	0.60 - 3.0				
Imazamethabenz methyl (H)									
Water, Finished	50				0.31 - 1.5				1,750,000
Water, Untreated	50				0.31 - 1.5				
Imazamox (H)									
Water, Finished	50				1.7 - 4.0				
Water, Untreated	50				1.7 - 4.0				
Imazapic (H)									
Water, Finished	50				0.90 - 3.0				3,500,000
Water, Untreated	50				0.90 - 3.0				
Imazapyr (H)									
Water, Finished	50	22	44	2.0 - 8.3	1.0 - 2.5				17,500,000
Water, Untreated	50	19	38	2.0 - 5.8	1.0 - 2.5				
Imazaquin (H)									
Water, Finished	50				1.1 - 5.0				1,750,000
Water, Untreated	50				1.1 - 5.0				
Imazethapyr (H)									
Water, Finished	50				1.0 - 2.0				17,500,000
Water, Untreated	50				1.0 - 2.0				
Imidacloprid (I)									
Water, Finished	50				3.6 - 6.0				399,000
Water, Untreated	50				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	7				12 ^				140,000
Water, Untreated	7				12 ^				
Isoxaflutole degradate (HM)									
Water, Finished	7				15 ^				
Water, Untreated	7				15 ^				
Lindane - BHC gamma (I)									
Water, Finished	43				20 ^	200			
Water, Untreated	43				20 ^			950	
Linuron (H)									
Water, Finished	50				1.6 - 6.0				54,000
Water, Untreated	50				1.6 - 6.0				
Malathion (I)									
Water, Finished	50				10 - 30		500,000		
Water, Untreated	50				10 - 30				
Malathion oxygen analog (IM)									
Water, Finished	50				0.37 - 600				
Water, Untreated	50				0.37 - 600				
MCPA (H)									
Water, Finished	50	15	30	0.65 - 2.7	0.39 - 1.5		30,000		
Water, Untreated	50	10	20	0.65 - 3.5	0.39 - 1.5				
MCPB (H)									
Water, Finished	50				6.0 - 12				
Water, Untreated	50				6.0 - 12				
Mecoprop - MCPP (H)									
Water, Finished	50	30	60	0.52 - 2.8	0.31 - 15				280,000
Water, Untreated	50	31	62	0.52 - 8.6	0.31 - 15				
Mesotrione (H)									
Water, Finished	7				15 ^				49,000
Water, Untreated	7				15 ^				
Metalaxyl/Mefenoxam * (F)									
Water, Finished	50	25	50	2.0 - 17	1.0 - 2.5				
Water, Untreated	50	25	50	2.0 - 21	1.0 - 2.5				
Methidathion (I)									
Water, Finished	7				100 ^				11,000
Water, Untreated	7				100 ^				
Methomyl (I)									
Water, Finished	50				7.3 - 7.5		200,000		
Water, Untreated	50				7.3 - 7.5				
Methoxychlor olefin (IM)									
Water, Finished	43				3.6 ^	40,000	40,000		
Water, Untreated	43				3.6 ^				
Methoxychlor p,p' (IM)									
Water, Finished	43				19 ^	40,000	40,000		
Water, Untreated	43				19 ^				
Methoxychlor Total (I)									
Water, Finished	7				50 ^	40,000	40,000		
Water, Untreated	7				50 ^				
Metolachlor (H)									
Water, Finished	50	30	60	2.5 - 73	1.5 - 15		700,000		
Water, Untreated	50	30	60	2.5 - 170	1.5 - 15				
Metolachlor ethanesulfonic acid (HM)									
Water, Finished	50	50	100	1.3 - 740	0.36 - 3.0				
Water, Untreated	50	50	100	0.60 - 720	0.36 - 3.0				
Metolachlor oxanilic acid (HM)									
Water, Finished	50	42	84	3.0 - 1100	1.8 - 3.0				
Water, Untreated	50	43	86	3.0 - 1200	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	7				30 ^		70,000		
Water, Untreated	7				30 ^				
Metribuzin DA (HM)									
Water, Finished	7				6.0 ^				
Water, Untreated	7				6.0 ^				
Metsulfuron methyl (H)									
Water, Finished	50				1.5 - 7.0				
Water, Untreated	50	4	8	2.5 ^	1.5 - 7.0				
Myclobutanil (F)									
Water, Finished	50				1.6 - 50				175,000
Water, Untreated	50				1.6 - 50				
1-Naphthol (IM)									
Water, Finished	7				30 ^				
Water, Untreated	7				30 ^				
Neburon (H)									
Water, Finished	50				3.0 - 4.8				
Water, Untreated	50				3.0 - 4.8				
Nicosulfuron (H)									
Water, Finished	50				1.7 - 8.0				8,750,000
Water, Untreated	50				1.7 - 8.0				
Norflurazon (H)									
Water, Finished	50				4.8 - 6.0				105,000
Water, Untreated	50				4.8 - 6.0				
Norflurazon desmethyl (HM)									
Water, Finished	50	1	2	3.0 ^	1.8 - 15				
Water, Untreated	50	1	2	3.0 ^	1.8 - 15				
Omethoate (IM)									
Water, Finished	50				0.30 - 7.5				
Water, Untreated	50				0.30 - 7.5				
Oxadiazon (H)									
Water, Finished	7				30 ^				
Water, Untreated	7				30 ^				
Oxadixyl (F)									
Water, Finished	50				1.8 - 15				
Water, Untreated	50				1.8 - 15				
Oxamyl (I)									
Water, Finished	50				3.0 - 7.5	200,000			
Water, Untreated	50				3.0 - 7.5				
Oxydemeton methyl (I)									
Water, Finished	50				0.97 - 6.0				700
Water, Untreated	50				0.97 - 6.0				
Oxydemeton methyl sulfone (IM)									
Water, Finished	43				2.0 ^				
Water, Untreated	43				2.0 ^				
Parathion (I)									
Water, Finished	43				15 ^				200
Water, Untreated	43				15 ^			65	
Parathion methyl (I)									
Water, Finished	50				30 - 53				
Water, Untreated	50				30 - 53				
Parathion methyl oxygen analog (IM)									
Water, Finished	50				3.6 - 7.5				
Water, Untreated	50				3.6 - 7.5				
Pendimethalin (H)									
Water, Finished	7				30 ^				210,000
Water, Untreated	7				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	50				9.0 - 50				1,750,000
Water, Untreated	50				9.0 - 50				
Permethrin trans (IM)									
Water, Finished	50				7.5 - 50				1,750,000
Water, Untreated	50				7.5 - 50				
Phenothrin (I)									
Water, Finished	43				27 ^				
Water, Untreated	43				27 ^				
Phorate (I)									
Water, Finished	50				12 - 30				4,000
Water, Untreated	50				12 - 30				
Phorate oxygen analog (IM)									
Water, Finished	7				50 ^				
Water, Untreated	7				50 ^				
Phorate sulfone (IM)									
Water, Finished	50				1.8 - 100				
Water, Untreated	50				1.8 - 100				
Phorate sulfoxide (IM)									
Water, Finished	50				0.44 - 100				
Water, Untreated	50				0.44 - 100				
Phosmet (I)									
Water, Finished	7				100 ^				40,000
Water, Untreated	7				100 ^				
Picloram (H)									
Water, Finished	50				10 - 12.5	500,000			
Water, Untreated	50				10 - 12.5				
Prallethrin (I)									
Water, Finished	43				25 ^				350,000
Water, Untreated	43				25 ^				
Prometon (H)									
Water, Finished	50	41	82	0.28 - 5.7	0.17 - 30		400,000		
Water, Untreated	50	40	80	0.28 - 12	0.17 - 30				
Prometryn (H)									
Water, Finished	50				0.17 - 1.0				280,000
Water, Untreated	50	15	30	0.28 - 2.4	0.17 - 1.0				
Propachlor (H)									
Water, Finished	50				0.64 - 30				
Water, Untreated	50				0.64 - 30				
Propachlor ESA (HM)									
Water, Finished	7				9.0 ^				
Water, Untreated	7				9.0 ^				
Propachlor oxanilic acid (HM)									
Water, Finished	50				1.4 - 3.0				
Water, Untreated	50				1.4 - 3.0				
Propanil (H)									
Water, Finished	50				2.2 - 30				63,000
Water, Untreated	50				2.2 - 30				
Propazine (H)									
Water, Finished	50	15	30	0.70 - 2.9	0.42 - 30		10,000		
Water, Untreated	50	16	32	0.70 - 5.6	0.42 - 30				
Propiconazole (F)									
Water, Finished	50				3.4 - 50				700,000
Water, Untreated	50				3.4 - 50				
Propoxur (I)									
Water, Finished	7				6.0 ^				
Water, Untreated	7				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	43				1.5 ^				371,000
Water, Untreated	43				1.5 ^				
Pyrasulfotole (H)									
Water, Finished	43				2.8 ^				70,000
Water, Untreated	43				2.8 ^				
Pyroxsulam (H)									
Water, Finished	43				3.9 ^				7,000,000
Water, Untreated	43				3.9 ^				
Resmethrin (I)									
Water, Finished	43				7.8 ^				245,000
Water, Untreated	43				7.8 ^				
Saflufenacil (H)									
Water, Finished	7				4.5 ^				322,000
Water, Untreated	7				4.5 ^				
Siduron (H)									
Water, Finished	50				1.0 - 2.0				1,050,000
Water, Untreated	50				1.0 - 2.0				
Simazine (H)									
Water, Finished	50	24	48	1.2 - 34	0.71 - 30	4,000			
Water, Untreated	50	25	50	1.2 - 59	0.71 - 30				
Sulfometuron methyl (H)									
Water, Finished	50				0.76 - 2.5				1,925,000
Water, Untreated	50	1	2	3.1 ^	0.76 - 2.5				
Tebuconazole (F)									
Water, Finished	50	5	10	3.5 ^	2.1 - 50				203,000
Water, Untreated	50	2	4	3.5 ^	2.1 - 50				
Tebupirimfos (I)									
Water, Finished	7				30 ^				100
Water, Untreated	7				30 ^				
Tebuthiuron (H)									
Water, Finished	50	27	54	0.35 - 0.82	0.21 - 30		500,000		
Water, Untreated	50	22	44	0.35 - 1.7	0.21 - 30				
Tefluthrin (I)									
Water, Finished	43				2.1 ^				
Water, Untreated	43				2.1 ^				
Tembotrione (H)									
Water, Finished	50				5.5 - 15				3,000
Water, Untreated	50				5.5 - 15				
Terbacil (H)									
Water, Finished	43				0.71 ^		90,000		
Water, Untreated	43				0.71 ^				
Terbufos (I)									
Water, Finished	50				6.3 - 30		400		
Water, Untreated	50				6.3 - 30				
Terbufos sulfone (IM)									
Water, Finished	43				1.6 ^				
Water, Untreated	43				1.6 ^				
Tetrachlorvinphos (I)									
Water, Finished	43				7.5 ^				296,000
Water, Untreated	43				7.5 ^				
Tetraconazole (F)									
Water, Finished	50	5	10	2.0 ^	1.2 - 30				51,000
Water, Untreated	50	3	6	2.0 ^	1.2 - 30				
Tetradifon (I)									
Water, Finished	43				7.2 ^				
Water, Untreated	43				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	43				28 ^				
Water, Untreated	43				28 ^				
Thiamethoxam (I)									
Water, Finished	50	1	2	10.2 ^	6.1 - 7.5				84,000
Water, Untreated	50				6.1 - 7.5				
Thifensulfuron (H)									
Water, Finished	43				3.4 ^				
Water, Untreated	43				3.4 ^				
Thifensulfuron methyl (H)									
Water, Finished	7				5.0 ^				301,000
Water, Untreated	7				5.0 ^				
Thiobencarb (H)									
Water, Finished	50				2.5 - 3.9				70,000
Water, Untreated	50				2.5 - 3.9				
Tri Allate (H)									
Water, Finished	50				12 - 30				175,000
Water, Untreated	50				12 - 30				
Triadimefon (F)									
Water, Finished	43				1.3 ^				238,000
Water, Untreated	43				1.3 ^				
Triadimenol (F)									
Water, Finished	50				6.0 - 11				24,000
Water, Untreated	50				6.0 - 11				
Triasulfuron (H)									
Water, Finished	50				1.7 - 7.0				70,000
Water, Untreated	50				1.7 - 7.0				
Triclopyr (H)									
Water, Finished	50	12	24	2.7 - 30	1.6 - 15				350,000
Water, Untreated	50	11	22	2.7 - 16	1.6 - 15				
Trifluralin (H)									
Water, Finished	7				30 ^		10,000		
Water, Untreated	7				30 ^				
Triticonazole (F)									
Water, Finished	50				4.7 - 500				1,190,000
Water, Untreated	50				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 H

Distribution of Residues for Environmental Contaminants

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

The EPA tolerances cited in this appendix apply to 2013 and not to the current year. There may be instances where tolerances 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.

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.

APPENDIX H. DISTRIBUTION OF RESIDUES FOR ENVIRONMENTAL CONTAMINANTS

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Aldrin (insecticide) (parent of Dieldrin)						
Apple Juice	379	0			0.010 ^	0.03 AL
Baby Food - Applesauce	379	0			0.001 ^	0.03 AL
Baby Food - Peas	378	0			0.020 ^	0.03 AL
Bananas	708	0			0.040 ^	0.02 AL
Broccoli	707	0			0.005 ^	0.03 AL
Butter	756	0			0.001 ^	0.3 AL
Carrots	712	0			0.002 ^	0.1 AL
Cauliflower	532	0			0.001 ^	0.03 AL
Celery	708	0			0.001 - 0.005	0.03 AL
Fish, Salmon	352	0			0.003 - 0.010	0.3 AL
Grape Juice	176	0			0.003 ^	0.05 AL
Green Beans	378	0			0.010 ^	0.05 AL
Infant Formula, Soy-based	179	0			0.005 ^	0.05 AL
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.002 ^	0.3 AL
Peaches	285	0			0.005 ^	0.02 AL
Plums	507	0			0.005 ^	0.3 AL
Raspberries	652	0			0.005 - 0.040	0.05 AL
Raspberries, Frozen	53	0			0.005 - 0.040	0.05 AL
Summer Squash	709	0			0.005 - 0.020	0.1 AL
Water, Finished	43	0			9.6 ^ (ppt)	
Water, Groundwater	2	0			9.6 ^ (ppt)	
Water, Untreated	43	0			9.6 ^ (ppt)	
Winter Squash	187	0			0.003 ^	0.1 AL
TOTAL	**9,900**	**0**				
BHC alpha (insecticide) (isomer of BHC)						
Apple Juice	379	0			0.012 ^	0.05 AL
Baby Food - Applesauce	379	0			0.001 ^	0.05 AL
Baby Food - Peas	378	0			0.20 ^	0.05 AL
Bananas	708	0			0.007 ^	NT
Broccoli	707	0			0.005 ^	NT
Butter	756	0			0.001 ^	0.3 AL
Carrots	712	0			0.001 ^	0.3 AL
Cauliflower	532	0			0.001 ^	0.05 AL
Celery	708	0			0.001 - 0.003	0.05 AL
Fish, Salmon	352	0			0.012 ^	NA
Grape Juice	176	0			0.012 ^	0.05 AL
Green Beans	378	0			0.20 ^	0.05 AL
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.003 ^	0.05 AL
Mushrooms	532	0			0.012 ^	NT
Nectarines	543	0			0.001 ^	0.05 AL
Peaches	285	0			0.005 ^	0.05 AL
Plums	507	0			0.003 ^	0.05 AL
Raspberries	652	0			0.003 - 0.007	0.05 AL
Raspberries, Frozen	53	0			0.003 - 0.007	0.05 AL
Summer Squash	709	0			0.003 - 0.20	0.05 AL
Winter Squash	187	0			0.002 ^	0.05 AL
TOTAL	**9,989**	**0**				
BHC beta (isomer of BHC)						
Apple Juice	379	0			0.014 ^	0.05 AL
Baby Food - Applesauce	379	0			0.001 ^	0.05 AL
Baby Food - Peas	378	0			0.30 ^	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
Carrots	712	2	0.3	0.012 - 0.018	0.001 ^	0.3 AL
Celery	346	0			0.003 ^	0.05 AL
Fish, Salmon	352	0			0.014 ^	NA
Grape Juice	176	0			0.014 ^	0.05 AL
Green Beans	378	0			0.20 ^	0.05 AL
Infant Formula, Soy-based	179	0			0.003 ^	0.05 AL
Mushrooms	532	0			0.014 ^	NT
Nectarines	543	0			0.001 ^	0.05 AL
Peaches	285	0			0.005 ^	0.05 AL
Plums	507	0			0.003 ^	0.05 AL
Raspberries	351	0			0.003 ^	0.05 AL
Raspberries, Frozen	10	0			0.003 ^	0.05 AL
Summer Squash	709	0			0.003 - 0.20	0.05 AL
TOTAL	**6,216**	**2**				
BHC delta (isomer of BHC)						
Celery	346	0			0.005 ^	0.05 AL
Infant Formula, Soy-based	179	0			0.005 ^	0.05 AL
Plums	507	0			0.005 ^	0.05 AL
Raspberries	351	0			0.005 ^	0.05 AL
Raspberries, Frozen	10	0			0.005 ^	0.05 AL
Summer Squash	363	0			0.005 ^	0.05 AL
TOTAL	**1,756**	**0**				
BHC epsilon (isomer of BHC)						
Celery	346	0			0.005 ^	0.05 AL
Infant Formula, Soy-based	179	0			0.005 ^	0.05 AL
Plums	507	0			0.005 ^	0.05 AL
Raspberries	351	0			0.005 ^	0.05 AL
Raspberries, Frozen	10	0			0.005 ^	0.05 AL
Summer Squash	363	0			0.005 ^	0.05 AL
TOTAL	**1,756**	**0**				
Chlordane Total (insecticide)						
Carrots	712	4	0.6	0.017 ^	0.010 ^	0.1 AL
Nectarines	543	0			0.010 ^	0.1 AL
TOTAL	**1,255**	**4**				
Chlordane cis (isomer of Chlordane)						
Apple Juice	379	0			0.010 ^	0.1 AL
Baby Food - Applesauce	379	0			0.001 ^	0.1 AL
Baby Food - Peas	378	0			0.005 ^	0.1 AL
Bananas	708	0			0.005 ^	0.1 AL
Broccoli	707	0			0.005 ^	0.1 AL
Butter	756	0			0.001 ^	NT
Cauliflower	532	0			0.001 ^	0.1 AL
Celery	708	0			0.001 - 0.005	0.1 AL
Fish, Salmon	352	0			0.010 ^	0.3 AL
Grape Juice	176	0			0.010 ^	0.1 AL
Green Beans	378	0			0.025 ^	0.1 AL
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.005 ^	0.1 AL
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.005 ^	0.1 AL
Plums	507	0			0.005 ^	0.1 AL
Raspberries	652	0			0.005 ^	0.1 AL
Raspberries, Frozen	53	0			0.005 ^	0.1 AL
Summer Squash	709	3	0.4	0.008 - 0.012	0.005 - 0.050	0.1 AL

Pesticide / Commodity	Number of Samples	Samples with Detections	% of Samples with Detections	Range of Values Detected, ppm	Range of LODs, ppm	EPA Tolerance Level, ppm
Water, Finished	43	0			4.2 ^ (ppt)	
Water, Groundwater	2	0			4.2 ^ (ppt)	
Water, Untreated	43	0			4.2 ^ (ppt)	
Winter Squash	187	1	0.5	0.003 ^	0.002 ^	0.1 AL
TOTAL	**8,822**	**4**				
Chlordane trans (isomer of Chlordane)						
Apple Juice	379	0			0.010 ^	0.1 AL
Baby Food - Applesauce	357	0			0.001 ^	0.1 AL
Baby Food - Peas	378	0			0.025 ^	0.1 AL
Bananas	708	0			0.005 ^	0.1 AL
Broccoli	707	0			0.005 ^	0.1 AL
Butter	756	0			0.001 ^	NT
Cauliflower	532	0			0.001 ^	0.1 AL
Celery	708	0			0.001 - 0.005	0.1 AL
Fish, Salmon	352	0			0.010 ^	0.3 AL
Grape Juice	176	0			0.010 ^	0.1 AL
Green Beans	378	0			0.010 ^	0.1 AL
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.005 ^	0.1 AL
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.005 ^	0.1 AL
Plums	507	0			0.005 ^	0.1 AL
Raspberries	652	0			0.005 ^	0.1 AL
Raspberries, Frozen	53	0			0.005 ^	0.1 AL
Summer Squash	709	2	0.3	0.006 - 0.007	0.005 - 0.025	0.1 AL
Water, Finished	43	0			4.8 ^ (ppt)	
Water, Groundwater	2	0			4.8 ^ (ppt)	
Water, Untreated	43	0			4.8 ^ (ppt)	
Winter Squash	187	1	0.5	0.003 ^	0.002 ^	0.1 AL
TOTAL	**8,800**	**3**				
DDD o,p' (metabolite of DDT)						
Butter	722	0			0.001 ^	1.25 AL
Cauliflower	532	0			0.001 ^	0.5 AL
Celery	708	0			0.001 - 0.003	0.5 AL
Fish, Salmon	352	0			0.001 ^	5 AL
Grape Juice	176	0			0.001 ^	0.05 AL
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.003 ^	0.2 AL
Plums	507	0			0.003 ^	0.2 AL
Raspberries	351	0			0.003 ^	0.1 AL
Raspberries, Frozen	10	0			0.003 ^	0.1 AL
Summer Squash	363	1	0.3	0.003 ^	0.003 ^	0.1 AL
TOTAL	**4,077**	**1**				
DDD p,p' (metabolite of DDT)						
Apple Juice	379	0			0.005 ^	0.1 AL
Baby Food - Applesauce	379	0			0.001 ^	0.1 AL
Baby Food - Peas	378	0			0.005 ^	0.2 AL
Bananas	708	0			0.005 ^	NT
Broccoli	707	0			0.005 ^	NT
Butter	739	0			0.001 ^	1.25 AL
Cauliflower	532	0			0.001 ^	0.5 AL
Celery	708	1	0.1	0.002 ^	0.001 - 0.003	0.5 AL
Fish, Salmon	352	0			0.005 ^	5 AL
Grape Juice	146	0			0.005 ^	0.05 AL
Green Beans	378	0			0.025 ^	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
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.003 ^	0.2 AL
Mushrooms	532	0			0.005 ^	0.5 AL
Peaches	285	0			0.005 ^	0.2 AL
Plums	507	0			0.003 ^	0.2 AL
Raspberries	652	0			0.003 - 0.010	0.1 AL
Raspberries, Frozen	53	0			0.003 - 0.010	0.1 AL
Summer Squash	709	1	0.1	0.003 ^	0.003 - 0.050	0.1 AL
Winter Squash	187	0			0.002 ^	0.1 AL
TOTAL	**8,687**	**2**				
DDE o,p' (metabolite of DDT)						
Carrots	712	2	0.3	0.003 ^	0.002 ^	3 AL
Celery	346	0			0.005 ^	0.5 AL
Fish, Salmon	352	0			0.001 ^	5 AL
Grape Juice	176	0			0.001 ^	0.05 AL
Infant Formula, Soy-based	179	0			0.005 ^	0.2 AL
Nectarines	543	0			0.002 ^	0.2 AL
Plums	507	0			0.005 ^	0.2 AL
Raspberries	351	0			0.005 ^	0.1 AL
Raspberries, Frozen	10	0			0.005 ^	0.1 AL
Summer Squash	363	0			0.005 ^	0.1 AL
TOTAL	**3,539**	**2**				
DDE p,p' (metabolite of DDT)						
Apple Juice	379	0			0.010 ^	0.1 AL
Baby Food - Applesauce	379	0			0.001 ^	0.1 AL
Baby Food - Peas	378	0			0.005 ^	0.2 AL
Bananas	708	0			0.005 ^	NT
Broccoli	707	0			0.005 ^	NT
Butter	756	503	66.5	0.002 - 0.016	0.001 ^	1.25 AL
Carrots	712	167	23.5	0.003 - 0.084	0.002 - 0.008	3 AL
Cauliflower	532	0			0.001 ^	0.5 AL
Celery	708	122	17.2	0.002 - 0.012	0.001 - 0.003	0.5 AL
Fish, Salmon	352	0			0.010 ^	5 AL
Grape Juice	176	0			0.010 ^	0.05 AL
Green Beans	378	1	0.3	0.007 ^	0.005 ^	0.2 AL
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.003 ^	0.2 AL
Mushrooms	532	0			0.010 ^	0.5 AL
Nectarines	543	1	0.2	0.003 ^	0.002 - 0.008	0.2 AL
Peaches	285	0			0.005 ^	0.2 AL
Plums	507	0			0.003 ^	0.2 AL
Raspberries	652	0			0.003 - 0.005	0.1 AL
Raspberries, Frozen	53	0			0.003 - 0.005	0.1 AL
Summer Squash	709	19	2.7	0.003 - 0.008	0.003 - 0.005	0.1 AL
Winter Squash	187	4	2.1	0.003 ^	0.002 ^	0.1 AL
TOTAL	**9,989**	**817**				
DDT o,p' (insecticide)						
Butter	755	0			0.001 - 0.004	1.25 AL
Carrots	712	44	6.2	0.002 - 0.004	0.001 ^	3 AL
Cauliflower	532	0			0.001 - 0.003	0.5 AL
Celery	708	0			0.001 - 0.007	0.5 AL
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	150	0			0.003 ^	0.2 AL
Nectarines	543	0			0.001 ^	0.2 AL
Plums	507	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
Raspberries	351	0			0.003 ^	0.1 AL
Raspberries, Frozen	10	0			0.003 ^	0.1 AL
Summer Squash	362	9	2.5	0.003 - 0.013	0.003 ^	0.1 AL
TOTAL	**4,807**	**53**				
DDT p,p' (insecticide)						
Baby Food - Applesauce	357	0			0.001 ^	0.1 AL
Bananas	708	0			0.076 ^	NT
Broccoli	665	0			0.005 ^	NT
Carrots	712	64	9	0.002 - 0.010	0.001 ^	3 AL
Cauliflower	532	0			0.001 ^	0.5 AL
Celery	708	9	1.3	0.002 ^	0.001 - 0.003	0.5 AL
Fish, Salmon	352	2	0.6	0.002 - 0.003	0.001 ^	5 AL
Grape Juice	146	0			0.001 ^	0.05 AL
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.003 ^	0.2 AL
Nectarines	543	0			0.001 ^	0.2 AL
Peaches	285	0			0.005 ^	0.2 AL
Plums	507	0			0.003 ^	0.2 AL
Raspberries	652	0			0.003 - 0.076	0.1 AL
Raspberries, Frozen	53	0			0.003 - 0.076	0.1 AL
Summer Squash	363	8	2.2	0.003 - 0.013	0.003 ^	0.1 AL
Winter Squash	187	0			0.003 ^	0.1 AL
TOTAL	**7,126**	**83**				
Dieldrin (insecticide) (also a metabolite of Aldrin)						
Apple Juice	379	0			0.010 ^	0.03 AL
Baby Food - Applesauce	379	0			0.005 ^	0.03 AL
Baby Food - Peas	378	0			0.050 ^	0.03 AL
Bananas	708	0			0.020 ^	0.02 AL
Broccoli	707	0			0.005 ^	0.03 AL
Butter	720	0			0.003 ^	0.3 AL
Carrots	712	9	1.3	0.007 - 0.014	0.004 ^	0.1 AL
Cauliflower	532	0			0.002 ^	0.03 AL
Celery	708	0			0.002 - 0.010	0.03 AL
Fish, Salmon	352	0			0.010 ^	0.3 AL
Grape Juice	176	0			0.010 ^	0.05 AL
Green Beans	378	0			0.025 ^	0.05 AL
Infant Formula, Dairy-based	177	0			0.002 ^	NT
Infant Formula, Soy-based	179	0			0.010 ^	0.05 AL
Mushrooms	532	0			0.010 ^	NT
Nectarines	543	0			0.004 ^	0.3 AL
Peaches	285	0			0.005 ^	0.02 AL
Plums	507	0			0.010 ^	0.3 AL
Raspberries	652	0			0.010 - 0.020	0.05 AL
Raspberries, Frozen	53	0			0.010 - 0.020	0.05 AL
Summer Squash	709	19	2.7	0.011 - 0.094	0.010 - 0.050	0.1 AL
Winter Squash	187	2	1.1	0.010 - 0.12	0.006 ^	0.1 AL
TOTAL	**9,953**	**30**				
Endrin (insecticide)						
Apple Juice	379	0			0.010 ^	0.03 AL
Baby Food - Applesauce	379	0			0.001 ^	0.03 AL
Baby Food - Peas	378	0			0.12 ^	0.03 AL
Bananas	708	0			0.031 ^	0.02 AL
Broccoli	707	0			0.005 ^	0.03 AL
Butter	756	0			0.009 - 0.060	0.3 AL
Cauliflower	532	0			0.008 - 0.025	0.03 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
Celery	708	0			0.008 - 0.010	0.03 AL
Fish, Salmon	352	0			0.010 ^	0.3 AL
Grape Juice	176	0			0.010 ^	0.05 AL
Green Beans	378	0			0.030 ^	0.05 AL
Infant Formula, Dairy-based	177	0			0.008 ^	NT
Infant Formula, Soy-based	179	0			0.010 ^	0.05 AL
Mushrooms	532	0			0.010 ^	NT
Peaches	285	0			0.005 ^	0.02 AL
Plums	507	0			0.010 ^	0.3 AL
Raspberries	652	0			0.010 - 0.031	0.05 AL
Raspberries, Frozen	53	0			0.010 - 0.031	0.05 AL
Summer Squash	709	0			0.010 - 0.062	0.1 AL
Water, Finished	43	0			22 ^ (ppt)	
Water, Groundwater	2	0			22 ^ (ppt)	
Water, Untreated	43	0			22 ^ (ppt)	
Winter Squash	187	2	1.1	0.005 ^	0.003 ^	0.1 AL
TOTAL	**8,822**	**2**				
Heptachlor (insecticide)						
Apple Juice	379	0			0.002 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.015 ^	NT
Bananas	708	0			0.049 ^	NT
Broccoli	707	0			0.005 ^	NT
Butter	756	0			0.001 ^	NT
Carrots	712	0			0.001 ^	NT
Cauliflower	532	0			0.001 ^	NT
Celery	708	0			0.001 - 0.003	0.05 AL
Fish, Salmon	352	0			0.002 ^	0.3 AL
Grape Juice	176	0			0.002 ^	0.05 AL
Green Beans	378	0			0.005 ^	NT
Infant Formula, Dairy-based	177	0			0.001 ^	NT
Infant Formula, Soy-based	179	0			0.003 ^	0.05 AL
Mushrooms	532	0			0.002 ^	NT
Nectarines	543	0			0.001 ^	0.05 AL
Peaches	285	0			0.005 ^	0.05 AL
Plums	507	0			0.003 ^	0.05 AL
Raspberries	652	0			0.003 - 0.049	0.05 AL
Raspberries, Frozen	53	0			0.003 - 0.049	0.05 AL
Summer Squash	709	0			0.003 - 0.015	0.05 AL
Water, Finished	50	0			9.0 - 50	
Water, Groundwater	14	0			9.0 - 50	
Water, Untreated	50	0			9.0 - 50	
Winter Squash	187	0			0.003 ^	0.05 AL
TOTAL	**10,103**	**0**				
Heptachlor epoxide (metabolite of Heptachlor)						
Apple Juice	379	0			0.005 ^	NT
Baby Food - Applesauce	379	0			0.001 ^	NT
Baby Food - Peas	378	0			0.010 ^	NT
Bananas	708	0			0.041 ^	NT
Broccoli	707	0			0.005 ^	NT
Butter	756	0			0.005 ^	NT
Cauliflower	532	0			0.004 ^	NT
Celery	708	0			0.004 - 0.005	0.05 AL
Fish, Salmon	323	0			0.005 ^	0.3 AL
Grape Juice	176	0			0.005 ^	0.05 AL
Green Beans	378	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
Infant Formula, Dairy-based	177	0			0.004 ^	NT
Infant Formula, Soy-based	179	0			0.005 ^	0.05 AL
Mushrooms	532	0			0.005 ^	NT
Peaches	285	0			0.005 ^	0.05 AL
Plums	507	0			0.005 ^	0.05 AL
Raspberries	652	0			0.005 - 0.041	0.05 AL
Raspberries, Frozen	53	0			0.005 - 0.041	0.05 AL
Summer Squash	709	2	0.3	0.006 - 0.010	0.005 - 0.010	0.05 AL
Winter Squash	187	1	0.5	0.005 ^	0.003 ^	0.05 AL
TOTAL	**8,705**	**3**				
Heptachlor epoxide cis (metabolite of Heptachlor)						
Carrots (V-4)	712	4	0.6	0.007 - 0.016	0.004 ^	NT
Nectarines	543	0			0.004 ^	0.05 AL
Water, Finished	50	0			9.0 - 100 (ppt)	
Water, Groundwater	14	0			9.0 - 100 (ppt)	
Water, Untreated	50	0			9.0 - 100 (ppt)	
TOTAL	**1,369**	**4**				
Heptachlor epoxide trans (metabolite of Heptachlor)						
Water, Finished	50	0			9.0 - 100 (ppt)	
Water, Groundwater	14	0			9.0 - 100 (ppt)	
Water, Untreated	50	0			9.0 - 100 (ppt)	
TOTAL	**114**	**0**				
Hexachlorobenzene - HCB (metabolite and impurity of Quintozene)						
Apple Juice	33	0			0.003 ^	NT
Baby Food - Applesauce	357	0			0.001 ^	NT
Broccoli	707	0			0.005 ^	0.1
Butter	741	0			0.004 ^	NT
Carrots	712	0			0.002 ^	NT
Celery	678	0			0.001 - 0.003	NT
Green Beans	378	0			0.050 ^	0.1
Infant Formula, Soy-based	179	0			0.003 ^	0.1
Mushrooms	31	0			0.003 ^	NT
Peaches	285	0			0.005 ^	NT
Plums	507	0			0.003 ^	NT
Raspberries	351	0			0.003 ^	NT
Raspberries, Frozen	10	0			0.003 ^	NT
Summer Squash	709	0			0.003 - 0.10	NT
Winter Squash	187	0			0.002 ^	NT
TOTAL	**5,865**	**0**				
Oxychlordane (metabolite of Chlordane)						
Apple Juice	379	0			0.010 ^	0.1 AL
Butter	756	0			0.003 ^	NT
Cauliflower	532	0			0.002 ^	0.1 AL
Celery	332	0			0.002 ^	0.1 AL
Fish, Salmon	146	0			0.010 ^	0.3 AL
Mushrooms	532	0			0.010 ^	NT
Water, Finished	43	0			8.4 ^ (ppt)	
Water, Groundwater	2	0			8.4 ^ (ppt)	
Water, Untreated	43	0			8.4 ^ (ppt)	
TOTAL	**2,765**	**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

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.

(V) = Residue was found where no tolerance was established by EPA. Following "V" are the number of occurrences. Refer to pages 2 and 3 in Appendix M to see the number of occurrences broken down by sample origin (domestic, imported, or unknown) for a commodity/pesticide pair.

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

Appendix I

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

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

As shown in Appendix I, fruit and vegetable, infant formula, butter, and salmon samples originated from 36 States and 34 foreign countries. There were 186 samples from mixed national origins (multiple countries). There were 345 domestic samples from unknown states. There were an additional 68 samples from unknown origins. Overall, for all samples excluding groundwater and drinking water, 70.8 percent were from U.S. sources, 26.6 percent were imports, 1.9 percent were of mixed national origin, and 0.7 percent were of unknown origin.

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

Part 1. Domestic Samples

	Fresh F&V													Processed F&V					Formula		Dairy	Fish	# of	% of
	BN	BR	CE	CF	CR	GB	MU	NE	PC	PU	RS	SS	WS	AJ	GJ	IA	IE	RZ	DF	YF	BU	FS	Samples	Total
Alaska																						18	18	0.2
Arizona		1			18	1	6					11	7	1							8		53	0.5
Arkansas						7								4	7	1		1	2	1	42	5	70	0.7
California		522	510	486	446	88	138	278	178	223	433	76	11	25	2	11	8		3	5	109	25	3577	35.8
Colorado					7	6	2		1			2	1	1							6		26	0.3
Florida		28	59	13	4	38	11			1		88	3	15	7				1		20	3	291	2.9
Georgia					13	15			5			28	1									1	63	0.6
Idaho		1						1	7	1								2			2	2	16	0.2
Illinois		10			1		1					3		3		1	4		3		31	7	64	0.6
Indiana												1							69	54			124	1.2
Iowa																					1		1	<0.1
Kansas														2							4		6	0.1
Kentucky									1														1	<0.1
Maine		3			1													1			1		6	0.1
Maryland		8	10		6	12	20	3		1		10									19	5	94	0.9
Massachusetts					1									3	109						2	1	116	1.2
Michigan		2	22		35	9			3			14	2	19	25	272	301		7	5	47	1	764	7.6
Minnesota			2			1								2	1	1			1	3	144	1	156	1.6
Missouri																					33		33	0.3
Nevada		3	1																				4	0.0
New Jersey		1				3		1	18			10		1				2	14	22	9		81	0.8
New York		5		1		10	2		1	1		12	2	6	2	63	53		5	3	32	1	199	2.0
North Carolina						7			3			9		2		3			2	2	40		68	0.7
Ohio		2	3	1	11	19	13		1	2		18		9	7			1	64	72	62	3	288	2.9
Oklahoma							12																12	0.1
Oregon																					31	1	32	0.3
Pennsylvania					6	3	135	2	2			2		1							10	1	162	1.6
Rhode Island																					1		1	<0.1
South Carolina									17														17	0.2
Texas		16	22	3	7	15	36		2			39		19	1				1	1	19	2	183	1.8
Vermont																				3	10		13	0.1
Virginia		1				9								8									18	0.2
Washington		5	3	2	1	6	5	21	14	1		10		27							18	15	128	1.3
West Virginia									4														4	0.0
Wisconsin																				1	41		42	0.4
Wyoming							1																1	<0.1
Unknown State		15	20	9	19	61	92	7	11	5	6	61	1	3		10	10		2	1	9	3	345	3.5
No. of Domestic	0	623	652	515	576	310	474	313	268	235	439	394	28	151	161	362	376	7	174	173	751	95	7,077	
% of Total	0	88	92	97	81	82	89	58	94	46	67	56	15	40	91	96	99	13	98	97	99	27		70.8

Part 2. Imported Samples

	Fresh F&V													Processed F&V					Formula		Dairy	Fish	# of	% of
	BN	BR	CE	CF	CR	GB	MU	NE	PC	PU	RS	SS	WS	AJ	GJ	IA	IE	RZ	DF	YF	BU	FS	Samples	Total
Argentina														28									28	0.3
Brazil														4									4	<0.1
Canada		5	12	5	84	2	51					3		1		10						18	191	1.9
Chile								227	16	269	1	1		3		4		40				86	647	6.5
China														34		1						104	139	1.4
Colombia	56																						56	0.6
Costa Rica	154									1													155	1.6
Denmark																						5	5	0.1
Republic												5	2										7	0.1
Ecuador	145									1													146	1.5
Guatemala	209					10							10										229	2.3
Honduras	95	1											16										112	1.1
Hong Kong		1																					1	<0.1
Iceland																						1	1	<0.1
Ireland																					1		1	<0.1
Israel					6																		6	0.1
Mexico	28	75	37	10	41	42	6				211	294	131					2					877	8.8
New Zealand																						4	4	<0.1
Nicaragua	5																						5	0.1
Norway																						11	11	0.1
Panama	2																						2	<0.1
Peru	1																						1	<0.1
Russia																						1	1	<0.1
Serbia																		3					3	<0.1
Switzerland																				2			2	<0.1
Turkey														8									8	0.1
United Kingdom																						3	3	<0.1
Yugoslavia																		1					1	<0.1
Unknown Country	13																						13	0.1
No. of Imports	708	82	49	15	131	54	57	227	16	271	212	303	159	78	0	15	0	46	0	2	1	233	2,659	
% of Total	100	12	7	3	18	14	11	42	6	53	33	43	85	21	0	4	0	87	0	1	<1	66		26.6

Part 3. Mixed National Origin Samples

	Fresh F&V													Processed F&V					Formula		Dairy	Fish	# of	% of
	BN	BR	CE	CF	CR	GB	MU	NE	PC	PU	RS	SS	WS	AJ	GJ	IA	IE	RZ	DF	YF	BU	FS	Samples	Total
Argentina / Austria / Brazil / Chile / China / Germany / Hungary														1									1	<0.1
Argentina / Austria / Brazil / Chile / China / Germany / Hungary / Turkey														1									1	<0.1
Argentina / Austria / Brazil / Chile / China / Germany / Hungary / Italy / Turkey / USA														2									2	<0.1
Argentina / Brazil															1								1	<0.1
Argentina / Brazil / Chile / China / Germany / Hungary / Italy / Turkey														1									1	<0.1
Argentina / Brazil / Chile / China / USA														4									4	<0.1
Argentina / Chile / China / Germany / Poland														1									1	<0.1
Argentina / Chile / China / USA														1									1	<0.1
Argentina / Chile / USA														1									1	<0.1
Argentina / China														36									36	0.4
Argentina / China / USA														8									8	0.1
Argentina / Mexico / USA															6								6	0.1
Argentina / Taiwan / USA														2									2	<0.1
Argentina / USA														5	6								11	0.1
Austria / Brazil / Chile / China / Germany / Italy / Turkey														1									1	<0.1
Brazil / Chile														4									4	<0.1
Brazil / China														1									1	<0.1
Brazil / USA														2									2	<0.1
Canada / USA														23									23	0.2
Chile / China														9									9	0.1
Chile / China / USA														14									14	0.1
China / Germany														1									1	<0.1
China / Germany / USA														3									3	<0.1
China / Russia																						4	4	<0.1
China / USA														28								19	47	0.5
Mexico / USA															1								1	<0.1
No. of Mixed National Origin Samples														149	14							23	186	
% of Total														39	8							7		1.9

Part 4. Unknown Origin Samples

	Fresh F&V													Processed F&V					Formula		Dairy	Fish	# of	% of
	BN	BR	CE	CF	CR	GB	MU	NE	PC	PU	RS	SS	WS	AJ	GJ	IA	IE	RZ	DF	YF	BU	FS	Samples	Total
Unknown Origin		3	7	2	5	14	1	3	1	1	1	12		1	1	2	2		3	4	4	1	68	
% of Total		<1	1	<1	1	4	<1	1	<1	<1	<1	2		<1	1	1	1		2	2	1	<1		0.7
Sample Totals:	708	708	708	532	712	378	532	543	285	507	652	709	187	379	176	379	378	53	177	179	756	352	9,990	

NOTE

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

Commodity Legend		
AJ = Apple Juice	FS = Fish, Salmon	PC = Peaches
BN = Bananas	GB = Green Beans	PU = Plums
BR = Broccoli	GJ = Grape Juice	RS = Raspberries, Fresh
BU = Butter	IA = Baby Food - Applesauce	RZ = Raspberries, Frozen
CE = Celery	IE = Baby Food - Peas	SS = Summer Squash
CF = Cauliflower	MU = Mushrooms	WS = Winter Squash
CR = Carrots	NE = Nectarines	YF = Soy-based Infant Formula
DF = Diary-based Infant Formula		

Appendix J

Import vs. Domestic Pesticide Residue Comparisons

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

Appendix J compares residue data reported for samples originating in the United States with those of the same commodity from major exporting countries in 2013. Residue data for domestic nectarines are compared with data for samples originating in Chile. Residue data for domestic raspberries and summer squash are compared with data for samples originating in Mexico. Only residues detected in more than 10 percent of all samples are included in each comparison. All pesticides detected, except thiabendazole in nectarines, were registered in the United States. However, the profiles of residue findings were markedly different in the United States samples versus samples from these exporting countries. The differences in residue detections between countries were likely due to the pesticides used in response to pest pressures based on differing environmental, climatic, and growing conditions.

Appendix J. Import vs. Domestic Pesticide Residue Comparisons

2013 Distribution of Residues for Nectarine Samples Originating in Chile vs. United States

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

Pesticide	Origin	# of Samples Analyzed	# of Samples w/ Detections	% of Samples w/ Detections
Acetamiprid	United States	313	6	1.9
	Chile	227	67	29.5
Boscalid	United States	313	73	23.3
	Chile	227	8	3.5
Cyhalothrin, Lambda	United States	313	11	3.5
	Chile	227	115	50.7
Fenhexamid	United States	313	14	4.5
	Chile	227	49	21.6
Fludioxonil	United States	257	210	81.7
	Chile	12	1	8.3
Indoxacarb	United States	313	70	22.4
	Chile	225	28	12.4
Iprodione	United States	313	2	0.6
	Chile	227	218	96.0
Methoxyfenozide	United States	313	65	20.8
	Chile	227	48	21.1
Propiconazole	United States	313	114	36.4
	Chile	227	28	12.3
Pyraclostrobin	United States	312	53	17.0
	Chile	227	2	0.9
Pyrimethanil	United States	313	14	4.5
	Chile	226	54	23.9
Spinosad	United States	313	59	18.8
	Chile	227	114	50.2
Tebuconazole	United States	313	23	7.3
	Chile	227	177	78.0
Thiabendazole	United States	313	23	7.3
	Chile	227	50	22.0

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

2013 Distribution of Residues for Raspberry 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
Bifenazate	United States	253	78	30.8
	Mexico	96	26	27.1
Boscalid	United States	439	121	27.6
	Mexico	211	38	18.0
Cypermethrin	United States	439	65	14.8
	Mexico	211	27	12.8
Cyprodinil	United States	439	48	10.9
	Mexico	211	27	12.8
Myclobutanil	United States	439	79	18.0
	Mexico	211	18	8.5
Pyraclostrobin	United States	439	101	23.0
	Mexico	211	39	18.5
Spinetoram	United States	439	80	18.2
	Mexico	211	6	2.8
Spinosad	United States	253	26	10.3
	Mexico	96	15	15.6

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

2013 Distribution of Residues for Summer 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
Endosulfan sulfate	United States	394	47	11.9
	Mexico	294	75	25.5
Imidacloprid	United States	394	33	8.4
	Mexico	294	74	25.2
Propamocarb hydrochloride	United States	394	68	17.3
	Mexico	294	8	2.7

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

Appendix K

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

Appendix K shows 149 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 appendix apply to 2013 and not to the current year. There may be instances where tolerances have been recently set or revoked that would have an effect on whether a residue is violative or not.

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

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

	Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
1	**Apple Juice (6 pesticides)**							
	Acetamiprid *	I	15	379	57	0.003 - 0.019	0.007	1.0
	Carbendazim (MBC) [1]	F	28	379	106	0.001 - 0.035	0.006	2.0
	Diphenylamine (DPA)	F	17.7	379	67	0.002 - 0.066	0.019	10.0
	Pyrimethanil	F	5.5	379	21	0.11 - 0.23	0.155	14
	Tetrahydrophthalimide (THPI) [2]	FM	25.9	379	98	0.010 - 0.56	0.075	25.0
	Thiabendazole	F	25.1	379	95	0.003 - 0.27	0.051	5.0
2	**Baby Food - Applesauce (7 pesticides)**							
	Acetamiprid *	I	23.5	379	89	0.011 - 0.053	0.021	1.0
	Carbendazim (MBC) [1]	F	10	379	38	0.010 - 0.058	0.026	2.0
	Fenpropathrin	I	6.6	379	25	0.002 ^	0.002	5.0
	Myclobutanil	F	9.5	379	36	0.002 ^	0.002	0.5
	Pyridaben	I	5.5	379	21	0.002 ^	0.002	0.5
	Pyrimethanil	F	8.4	379	32	0.003 - 0.13	0.02	14
	Thiabendazole	F	6.9	379	26	0.019 - 0.12	0.055	5.0
3	**Bananas (5 pesticides)**							
	Azoxystrobin	F	21.3	708	151	0.005 - 0.077	0.012	2.0
	Buprofezin	I	6.5	708	46	0.001 - 0.097	0.007	0.20
	Imazalil	F	36.3	708	257	0.005 - 0.10	0.018	3.0
	Myclobutanil	F	16.4	708	116	0.002 - 0.11	0.026	4.0
	Thiabendazole	F	54.9	708	389	0.006 - 0.16	0.043	3.0
4	**Broccoli (3 pesticides)**							
	Azoxystrobin	F	10.6	708	75	0.002 - 0.46	0.037	3.0
	DCPA	H	9.9	707	70	0.005 - 0.063	0.02	5.0
	Imidacloprid	I	9.7	708	69	0.010 - 1.5	0.041	3.5
5	**Butter (4 pesticides)**							
	Bifenthrin *	I	14.8	756	112	0.003 - 0.006	0.003	1.0
	Cyhalothrin, Total [3] *	I	20.4	756	154	0.006 - 0.036	0.012	10.0
	Novaluron	I	37.2	723	269	0.002 - 0.013	0.004	20
	Permethrin							
	Permethrin cis [4]	IM	27.2	756	206	0.002 - 0.008	0.002	3.0
	Permethrin trans [4]	IM	28.3	756	214	0.002 - 0.010	0.003	3.0
6	**Carrots (8 pesticides)**							
	Azoxystrobin	F	7.7	712	55	0.010 - 0.031	0.011	0.5
	Boscalid	F	23	712	164	0.025 - 0.17	0.037	1.0
	Diazinon	I	5.3	712	38	0.002 - 0.038	0.009	0.75
	Iprodione	F	8.1	712	58	0.033 - 1.4	0.072	5.0
	Linuron	H	21.3	712	152	0.033 - 0.52	0.055	1.0
	Metalaxyl/Mefenoxam [5]	F	10.8	711	77	0.008 - 0.035	0.012	0.5
	Pyraclostrobin	F	15.5	711	110	0.008 - 0.035	0.01	0.4
	Trifluralin	H	24	712	171	0.003 - 0.18	0.017	1.0
7	**Cauliflower (1 pesticide)**							
	Imidacloprid	I	39.8	532	212	0.002 - 0.36	0.007	3.5
8	**Celery (19 pesticides)**							
	Acephate							
	Acephate (parent) *	I	22	708	156	0.003 - 0.45	0.077	10
	Methamidophos [6] *	I	9.2	708	65	0.002 - 0.031	0.009	1
	Acetamiprid *	I	10.9	708	77	0.002 - 0.061	0.007	3.00

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
Azoxystrobin	F	17.4	708	123	0.002 - 0.42	0.038	30.0
Boscalid	F	8.9	693	62	0.006 - 0.10	0.022	45
Chlorantraniliprole	I	28.7	708	203	0.003 - 0.29	0.017	13
Cyromazine	R	14	648	91	0.005 - 0.32	0.023	7.0
Deltamethrin [7]	I	11	708	78	0.020 ^	0.02	0.05
Dicloran	F	37.6	708	266	0.004 - 2.5	0.126	15
Flonicamid	I	9.7	708	69	0.002 - 0.10	0.027	4.0
Imidacloprid	I	5.4	708	38	0.002 - 0.046	0.007	6.0
Linuron	H	15.1	708	107	0.005 - 0.090	0.015	0.5
Malathion	I	10.6	708	75	0.002 - 0.17	0.031	8
Methoxyfenozide	I	15.7	708	111	0.002 - 0.096	0.013	25
Omethoate	IM	7.3	708	52	0.004 - 0.049	0.01	2.0
Oxamyl	I	5.6	708	40	0.003 - 0.071	0.019	10.0
Permethrin							
Permethrin cis	IM	42.8	708	303	0.002 - 0.24	0.022	5.0
Permethrin trans	IM	40	708	283	0.002 - 0.27	0.023	5.0
Propiconazole	F	27.4	708	194	0.010 - 0.15	0.024	5.0
Pyraclostrobin	F	17.5	708	124	0.003 - 0.47	0.039	29.0
Thiamethoxam	I	12.1	708	86	0.003 - 0.16	0.011	4.0
9 Grape Juice (6 pesticides)							
Boscalid	F	8	176	14	0.006 - 0.079	0.045	3.5
Carbaryl	I	25.6	176	45	0.003 - 0.026	0.006	10
Fenhexamid	F	6.2	176	11	0.020 - 0.082	0.062	4.0
Imidacloprid	I	9.7	176	17	0.004 - 0.041	0.027	1.5
Methoxyfenozide	I	9.7	176	17	0.003 - 0.008	0.005	1.0
Phosmet	I	8	176	14	0.011 - 0.015	0.012	10
10 Green Beans (11 pesticides)							
Acephate							
Acephate (parent) *	I	25.9	378	98	0.030 - 2.6	0.399	3.0
Methamidophos [6] *	IM	26.5	378	100	0.020 - 0.86	0.159	1
Azoxystrobin	F	30.7	378	116	0.001 - 0.076	0.016	3.0
Bifenthrin *	I	10.6	378	40	0.040 - 0.13	0.067	0.6
Boscalid	F	9.3	378	35	0.006 - 0.87	0.064	1.6
Chlorantraniliprole	I	12.2	378	46	0.001 - 0.020	0.004	2.0
Dicloran	F	5.3	378	20	0.11 - 1.5	0.493	20
Dimethoate	I	5.3	378	20	0.001 - 0.63	0.117	2.0
Metalaxyl/Mefenoxam [5]	F	5	378	19	0.001 - 0.018	0.004	0.2
Myclobutanil	F	5.3	378	20	0.006 - 0.089	0.025	1.0
Pyraclostrobin	F	7.7	378	29	0.001 - 0.52	0.024	0.5
Tebuconazole	F	6.3	378	24	0.001 - 0.20	0.026	0.1
11 Mushrooms (1 pesticide)							
Thiabendazole	F	47.7	532	254	0.003 - 2.0	0.295	40.0
12 Nectarines (17 pesticides)							
Acetamiprid *	I	13.4	543	73	0.017 - 0.23	0.038	1.20
Boscalid	F	15.1	543	82	0.002 - 0.19	0.036	3.5
Cyhalothrin, Lambda *	I	23.2	543	126	0.003 - 0.055	0.009	0.50
Cyprodinil	F	6.6	543	36	0.003 - 0.22	0.065	2.0
Fenhexamid	F	11.6	543	63	0.008 - 0.98	0.15	10.0
Fludioxonil	F	78.6	271	213	0.033 - 3.4	0.446	5.0
Indoxacarb	I	18.1	541	98	0.003 - 0.083	0.014	0.90
Iprodione	F	40.7	543	221	0.008 - 7.2	1.588	20.0
Methoxyfenozide	I	20.8	543	113	0.003 - 0.18	0.027	3.0
Myclobutanil	F	6.3	539	34	0.003 - 0.078	0.012	2.0
Propiconazole	F	26.3	543	143	0.007 - 0.64	0.079	4.0
Pyraclostrobin	F	10.3	542	56	0.002 - 0.10	0.026	2.5

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
Pyrimethanil	F	12.5	542	68	0.002 - 1.0	0.051	10
Spinetoram	I	9	543	49	0.013 - 0.16	0.027	0.20
Spinosad	I	32	543	174	0.010 - 0.11	0.017	0.20
Tebuconazole	F	37	543	201	0.002 - 3.4	0.255	1.0
Thiabendazole	F	13.6	543	74	0.003 - 1.8	0.036	NT
13 Peaches (25 pesticides)							
Acetamiprid *	I	5.3	285	15	0.011 - 0.14	0.041	1.20
Azoxystrobin	F	6	285	17	0.002 - 0.13	0.033	1.5
Boscalid	F	36.8	285	105	0.010 - 0.35	0.069	3.5
Buprofezin	I	5.6	285	16	0.011 - 0.030	0.02	9.0
Captan	F	13.7	285	39	0.027 - 1.2	0.234	15.0
Chlorantraniliprole	I	25.3	285	72	0.021 - 0.15	0.043	4.0
Clothianidin *	I	9.1	285	26	0.010 - 0.13	0.039	0.80
Cyfluthrin *	I	13.3	285	38	0.006 - 0.12	0.03	0.3
Cyhalothrin, Total [3] *	I	9.8	285	28	0.008 - 0.14	0.031	0.50
Cyprodinil	F	7.7	285	22	0.011 - 1.0	0.218	2.0
Esfenvalerate+Fenvalerate Total *	I	11.6	285	33	0.005 - 0.13	0.032	3.0
Fenbuconazole	F	22.8	285	65	0.005 - 0.19	0.022	1.0
Fenpropathrin	I	9.1	285	26	0.006 - 1.0	0.213	1.4
Fludioxonil	F	76.5	285	218	0.006 - 2.4	0.638	5.0
Hexythiazox	I	5.3	285	15	0.011 - 0.15	0.042	1.0
Indoxacarb	I	6.7	285	19	0.010 - 0.035	0.02	0.90
Iprodione	F	6.7	285	19	0.005 - 1.8	0.999	20.0
Methoxyfenozide	I	18.6	285	53	0.010 - 0.11	0.026	3.0
Permethrin Total	I	7.7	285	22	0.015 - 0.68	0.166	1.0
Phosmet	I	14.7	285	42	0.005 - 0.45	0.078	10
Propiconazole	F	45.6	285	130	0.011 - 0.91	0.18	4.0
Pyraclostrobin	F	37.9	285	108	0.003 - 0.23	0.04	2.5
Pyrimethanil	F	12.3	285	35	0.10 - 0.58	0.314	10
Spirodiclofen	A	30.9	285	88	0.010 - 0.29	0.052	1.0
Tebuconazole	F	11.2	285	32	0.005 - 0.28	0.038	1.0
14 Plums (6 pesticides)							
Fludioxonil	F	44.4	507	225	0.012 - 1.7	0.386	5.0
Iprodione	F	51.7	507	262	0.005 - 6.4	0.904	20.0
Methoxyfenozide	I	5.9	507	30	0.005 - 0.059	0.011	0.30
Propiconazole	F	5.9	507	30	0.011 - 0.39	0.112	0.60
Pyrimethanil	F	7.3	507	37	0.005 - 1.4	0.181	10
Tebuconazole	F	16.6	507	84	0.010 - 2.5	0.12	1.0
15 Raspberries (13 pesticides)							
Acetamiprid *	I	5.5	652	36	0.003 - 1.5	0.115	1.6
Azoxystrobin	F	8	652	52	0.003 - 0.34	0.062	5.0
Bifenazate	A	29.9	351	105	0.005 - 1.5	0.151	5.0
Boscalid	F	24.5	652	160	0.005 - 3.0	0.13	6.0
Cypermethrin *	I	14.1	652	92	0.010 - 0.47	0.083	0.8
Cyprodinil	F	11.5	652	75	0.003 - 1.7	0.146	10
Fludioxonil	F	6.4	652	42	0.011 - 0.56	0.127	5.0
Hexythiazox	I	9	652	59	0.005 - 0.38	0.066	1.0
Malathion	I	6.4	652	42	0.005 - 0.16	0.029	8
Myclobutanil	F	14.9	652	97	0.001 - 0.21	0.033	2.0
Pyraclostrobin	F	21.6	652	141	0.001 - 0.40	0.035	4.0
Spinetoram	I	13.2	652	86	0.005 - 0.37	0.037	0.70
Spinosad (parent) [8]	I	11.7	351	41	0.003 - 0.21	0.026	0.7
Spinosad A	IM	8	301	24	0.008 - 0.44	0.065	0.7
Spinosad D	IM	5.6	301	17	0.005 - 0.10	0.022	0.7

Commodity / Pesticide	Pest. Type	% of Samples with Detections	Number of Samples Analyzed	Number of Samples with Detections	Range of Detections, ppm	Mean of Detections, ppm	EPA Tolerance, ppm
16 Summer Squash (5 pesticides)							
Endosulfan sulfate [9]	IM	17.5	709	124	0.005 - 0.12	0.029	1.0
Imidacloprid	I	15.5	709	110	0.010 - 0.19	0.044	0.5
Propamocarb hydrochloride [10]	F	10.7	709	76	0.006 - 0.56	0.119	1.5
Pyraclostrobin	F	7.1	709	50	0.003 - 0.029	0.011	0.5
Thiamethoxam *	I	15	709	106	0.003 - 0.36	0.031	0.2
17 Winter Squash (6 pesticides)							
Bifenthrin *	I	11.8	187	22	0.005 - 0.072	0.01	0.4
Endosulfan sulfate [9]	IM	17.6	187	33	0.005 - 0.070	0.017	1.0
Imidacloprid	I	22.5	187	42	0.010 - 0.13	0.024	0.5
Metalaxyl/Mefenoxam [5]	F	9.1	187	17	0.003 - 0.057	0.01	1.0
Propamocarb hydrochloride [10]	F	20.3	187	38	0.010 - 0.61	0.138	1.5
Thiamethoxam *	I	15.5	187	29	0.003 - 0.011	0.003	0.2

NOTES

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

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

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

7 Includes parent, tralomethrin.

8 Total of spinosyns A and D.

9 From parent, endosulfan.

10 Analytically determined as the salt (hydrochloride).

Pesticide Types:

A = Acaricide

F = Fungicide, FM = Fungicide Metabolite

H = Herbicide

I = Insecticide, IM = Insecticide Metabolite

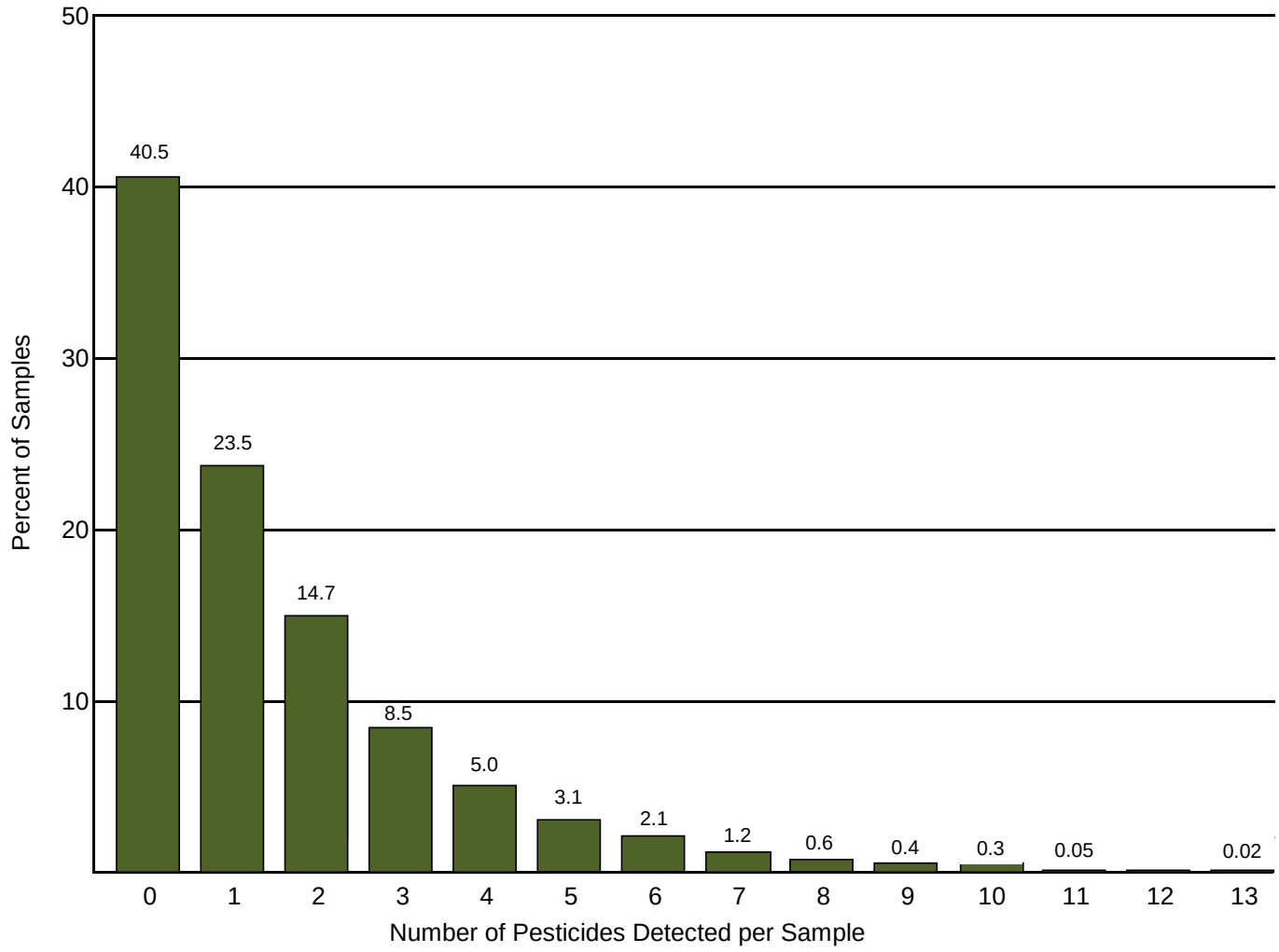
R = Insect Growth Regulator

Appendix L
Number of Pesticides Detected per Sample

Appendix L shows the percentage of samples versus the number of pesticides detected per sample, excluding groundwater and drinking water samples. The graph and data on page 1 show the overall number of samples and percentages (of total number of samples analyzed) for each detection group across all commodities. The table on page 2 shows the number of pesticides detected by individual commodity. For the 9,990 samples analyzed, 40.5 percent of the samples had no detectable pesticides, 23.5 percent had 1 pesticide, and 36 percent of the samples had more than 1 pesticide.

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

APPENDIX L. SAMPLES vs. NUMBER OF PESTICIDES [1] DETECTED PER SAMPLE [2]



Number of Pesticides Detected per Sample

	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Number of Samples	4,050	2,350	1,472	845	504	314	211	117	56	35	29	5	0	2
Percent of Total Samples	40.5	23.5	14.7	8.5	5.0	3.1	2.1	1.2	0.6	0.4	0.3	0.05	0	0.02

TOTAL NUMBER OF SAMPLES = 9,990

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

NOTES

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

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

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

Commodity (# of samples)	Number of Pesticides [1] Detected per Sample [2]													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Fresh Fruit and Vegetables:	Percent													
Bananas (708)	15.1	37.3	38.8	7.8	1.0	--	--	--	--	--	--	--	--	--
Broccoli (708)	63.7	23.4	8.5	3.1	0.8	0.4	--	--	--	--	--	--	--	--
Carrots (712)	34.8	26.8	17.6	11.1	4.1	2.7	1.7	1.1	0.1	--	--	--	--	--
Cauliflower (532)	48.3	44.2	6.8	0.8	--	--	--	--	--	--	--	--	--	--
Celery (708)	4.5	10.3	16.1	20.3	16.7	12.3	10.2	5.5	2.3	1.4	0.4	--	--	--
Green Beans (378)	29.6	28.6	18.8	12.4	6.9	2.6	0.5	0.3	0.3	--	--	--	--	--
Mushrooms (532)	50.0	45.9	2.3	1.7	0.2	--	--	--	--	--	--	--	--	--
Nectarines (543)	2.8	10.1	15.8	15.8	16.6	15.8	11.6	6.3	3.5	0.7	0.6	0.2	--	0.2
Peaches (285)	2.1	7.7	15.8	12.6	16.8	7.4	9.8	7.7	4.6	6.0	7.7	1.4	--	0.4
Plums (507)	7.1	45.8	33.9	10.1	1.2	0.8	0.6	0.4	0.2	--	--	--	--	--
Raspberries (652)	29.3	23.8	14.7	12.9	10.4	6.0	2.0	0.5	0.3	0.2	--	--	--	--
Summer Squash (709)	47.1	23.0	14.2	7.9	4.4	2.0	1.1	0.3	--	--	--	--	--	--
Winter Squash (187)	27.8	34.2	20.3	10.7	3.2	1.6	1.1	1.1	--	--	--	--	--	--
Processed Fruit and Vegetables:														
Apple Juice (379)	54.1	13.7	10.6	6.3	6.3	6.3	1.6	0.8	0.3	--	--	--	--	--
Baby Food - Applesauce (379)	48.8	23.5	17.4	7.7	2.1	0.5	--	--	--	--	--	--	--	--
Baby Food - Peas (378)	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Grape Juice (176)	63.1	17.0	6.3	11.9	1.7	--	--	--	--	--	--	--	--	--
Raspberries, Frozen (53)	54.7	13.2	11.3	1.9	--	1.9	3.8	1.9	3.8	5.7	1.9	--	--	--
Percent of Total Samples	35.4	25.2	15.9	9.0	5.5	3.7	2.5	1.4	0.7	0.4	0.3	0.06	--	0.02
Actual Number of Samples	3,015	2,150	1,354	768	471	313	211	117	56	35	29	5	--	2
TOTAL NUMBER OF FRUIT & VEGETABLE SAMPLES = 8,526														
Infant Formula Products:														
Infant Formula, Dairy-based (177)	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Infant Formula, Soy-based (179)	99.4	0.6	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	355	1	--	--	--	--	--	--	--	--	--	--	--	--
Dairy Product:														
Butter (756)	43.8	25.9	15.6	10.2	4.4	0.1	--	--	--	--	--	--	--	--
Actual Number of Samples	331	196	118	77	33	1	--	--	--	--	--	--	--	--
Fish Product:														
Salmon (352)	99.1	0.9	--	--	--	--	--	--	--	--	--	--	--	--
Actual Number of Samples	349	3	--	--	--	--	--	--	--	--	--	--	--	--

NOTES

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

[2] Excludes the 14 groundwater and 100 drinking water samples.

Appendix M

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

Appendix M shows pesticide residues reported to the U.S. Food and Drug Administration (FDA) as exceeding the tolerance or residues for which no established tolerance was listed under the Code of Federal Regulations, Title 40, Part 180. In 2013, a total of 317 samples with 350 pesticides were reported to the FDA as Presumptive Tolerance Violations.

Pesticides exceeding the tolerance were detected in 23 samples including 1 sample of broccoli, 1 sample of celery, 4 samples of green beans, 11 nectarine samples, 1 sample of plums, 1 sample of fresh raspberries, and 4 samples of summer squash. Of those 23 samples, 17 were reported as imported produce.

In addition, 301 samples were found to have pesticides for which no tolerance was established, including 286 fresh fruit and vegetable samples, 13 processed fruit/vegetable samples, and 2 butter samples.

- 276 samples contained 1 pesticide for which no tolerance was established.
- 24 samples contained 2 pesticides for which no tolerance was established.
- 1 sample of green beans contained 3 pesticides for which no tolerance was established.

Seven of the 301 samples also contained 1 pesticide each that exceeded an established tolerance.

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

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

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

The EPA tolerances cited in this appendix apply to 2013 and not to the current year. There may be instances where tolerances have been recently set or revoked that would have an effect on whether a residue is violative or not.

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

Residues Exceeding Established Tolerance

	Commodity / Pesticide	Limit of Detection, ppm	Concentration Detected, ppm	EPA Tolerance Level, ppm	Country of Origin
1	Broccoli / Cypermethrin	0.010	6.6	2.0	Mexico
2	Celery / Myclobutanil	0.001	0.083	0.03	Mexico
3	Green Beans / Cyfluthrin	0.10	0.11	0.05	U.S.
4	Green Beans / Dinotefuran	0.040	0.17	0.01	U.S.
5	Green Beans / Dinotefuran	0.040	0.17	0.01	U.S.
6	Green Beans / Tebuconazole	0.001	0.2	0.1	U.S.
7	Nectarines / Tebuconazole	0.001	3.4	1.0	Chile
8	Nectarines / Tebuconazole	0.001	2.9	1.0	Chile
9	Nectarines / Tebuconazole	0.001	2.4	1.0	Chile
10	Nectarines / Tebuconazole	0.001	2.1	1.0	Chile
11	Nectarines / Tebuconazole	0.001	2.1	1.0	Chile
12	Nectarines / Tebuconazole	0.001	1.5	1.0	Chile
13	Nectarines / Tebuconazole	0.001	1.5	1.0	Chile
14	Nectarines / Tebuconazole	0.001	1.3	1.0	Chile
15	Nectarines / Tebuconazole	0.001	1.3	1.0	Chile
16	Nectarines / Tebuconazole	0.001	1.2	1.0	Chile
17	Nectarines / Tebuconazole	0.001	1.2	1.0	Chile
18	Plums / Tebuconazole	0.010	2.5	1.0	Chile
19	Raspberries / Abamectin	0.020	0.095	0.01	Mexico
20	Summer Squash / Acephate	0.030	0.039	0.02	U.S.
21	Summer Squash / Tetrahydrophthalimide (THPI) [1]	0.010	0.11	0.05	Mexico
22	Summer Squash / Tetrahydrophthalimide (THPI) [1]	0.010	0.092	0.05	Mexico
23	Summer Squash / Thiamethoxam	0.060	0.36	0.2	U.S.

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

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin U.S.	Import	Unk.
1 Baby Food - Applesauce (1 pesticide)								
Iprodione	357	1	0.3	0.002 ^	0.001 ^	1	0	0
2 Broccoli (7 pesticides)								
Carbendazim (MBC)	708	1	0.1	0.049 ^	0.010 ^	0	1	0
Carbofuran (parent)	708	1	0.1	0.026 ^	0.010 ^	0	1	0
3-Hydroxycarbofuran [2]	708	1	0.1	0.017 ^	0.010 ^	0	1	0
Chlorpropham	707	3	0.4	0.008 - 0.013	0.005 ^	2	1	0
Dicloran	707	1	0.1	0.035 ^	0.005 ^	1	0	0
Pronamide	707	1	0.1	0.007 ^	0.005 ^	1	0	0
Propamocarb hydrochloride	708	3	0.4	0.011 - 0.041	0.010 ^	3	0	0
Tebuconazole	707	1	0.1	0.037 ^	0.005 ^	1	0	0
3 Butter (1 pesticide)								
Chlorpropham	756	2	0.3	0.002 - 0.004	0.001 - 0.004	2	0	0
4 Carrots (3 pesticides)								
Heptachlor epoxide cis	712	4	0.6	0.007 - 0.016	0.004 ^	0	4	0
Quintozene - PCNB (parent)								
Pentachloroaniline (PCA)	712	35	4.9	0.003 - 0.010	0.002 ^	20	15	0
Pentachlorobenzene (PCB) [3]	712	1	0.1	0.008 ^	0.001 ^	1	0	0
Phosmet	711	4	0.6	0.005 - 0.017	0.003 - 0.010	0	4	0
5 Cauliflower (3 pesticides)								
Chlorpropham	532	9	1.7	0.002 - 0.007	0.001 ^	9	0	0
Fenbuconazole	532	1	0.2	0.002 ^	0.001 ^	0	1	0
Pronamide	532	1	0.2	0.002 ^	0.001 ^	1	0	0
6 Celery (11 pesticides)								
Carbendazim (MBC)	708	1	0.1	0.002 ^	0.001 - 0.005	0	1	0
Chlorpropham	708	4	0.6	0.002 - 0.009	0.001 - 0.005	4	0	0
DCPA	708	16	2.3	0.002 - 0.011	0.001 - 0.003	16	0	0
Difenoconazole	708	2	0.3	0.004 - 0.006	0.003 - 0.005	2	0	0
Iprodione	376	1	0.3	0.006 ^	0.005 - 0.009	1	0	0
Pendimethalin	708	5	0.7	0.002 - 0.007	0.001 - 0.005	1	4	0
Pentachloroaniline (PCA)	708	1	0.1	0.002 ^	0.001 - 0.003	0	1	0
Pronamide	708	2	0.3	0.004 - 0.007	0.001 - 0.003	2	0	0
Propamocarb hydrochloride [4]	346	3	0.9	0.011 - 0.035	0.010 ^	3	0	0
Pyrimethanil	708	1	0.1	0.002 ^	0.001 - 0.005	1	0	0
Tebuconazole	708	1	0.1	0.010 ^	0.002 - 0.010	0	1	0
7 Grape Juice (1 pesticide)								
Thiabendazole	176	1	0.6	0.003 ^	0.003 ^	1	0	0
8 Green Beans (9 pesticides)								
Carbofuran (parent)	378	2	0.5	0.002 ^	0.001 ^	1	1	0
3-Hydroxycarbofuran [2]	378	1	0.3	0.004 ^	0.002 ^	0	1	0
Dimethomorph	378	1	0.3	0.036 ^	0.001 ^	0	1	0
Fenamidone	378	1	0.3	0.001 ^	0.001 ^	0	1	0
Fenpropathrin	378	1	0.3	0.067 ^	0.050 ^	0	1	0
Fluopicolide	378	1	0.3	0.007 ^	0.002 ^	1	0	0
Oxamyl	378	1	0.3	0.002 ^	0.002 ^	0	1	0
Propamocarb hydrochloride [4]	378	6	1.6	0.001 - 0.14	0.001 ^	2	3	1
Pyrimethanil	378	2	0.5	0.003 - 0.006	0.001 ^	2	0	0
Trifloxystrobin	378	6	1.6	0.001 - 0.023	0.001 ^	1	5	0
9 Mushrooms (2 pesticides)								
Carbendazim (MBC)	532	5	0.9	0.011 - 0.56	0.001 ^	3	2	0
o-Phenylphenol [5]	532	7	1.3	0.005 - 0.035	0.005 ^	7	0	0

Commodity / Pesticide	Number of Samples	Samples Reported	% of Samples	Range of Values Detected, ppm	Range of LODs, ppm	Sample Origin U.S.	Import	Unk.
10 Nectarines (7 pesticides)								
Azinphos methyl	543	3	0.6	0.008 - 0.080	0.005 ^	0	3	0
Carbendazim (MBC)	543	2	0.4	0.005 - 0.026	0.003 ^	1	1	0
Dimethoate	543	1	0.2	0.005 ^	0.003 ^	1	0	0
Imazalil	543	22	4.1	0.007 - 0.29	0.004 ^	11	11	0
Penconazole	543	1	0.2	0.026 ^	0.003 ^	1	0	0
Permethrin Total [6]	543	1	0.2	0.21 ^	0.004 ^	1	0	0
Thiabendazole	543	74	13.6	0.003 - 1.8	0.002 ^	23	50	1
11 Peaches (2 pesticides)								
Chlorpropham	285	3	1.1	0.011 - 0.013	0.005 ^	3	0	0
Diphenylamine (DPA)	285	1	0.4	0.007 ^	0.005 ^	1	0	0
12 Plums (3 pesticides)								
Chlorpropham	507	1	0.2	0.006 ^	0.005 ^	1	0	0
Imazalil	507	1	0.2	0.013 ^	0.005 ^	1	0	0
Thiabendazole	507	9	1.8	0.005 - 0.091	0.005 ^	3	6	0
13 Raspberries, Fresh (9 pesticides)								
Buprofezin	652	1	0.2	0.002 ^	0.001 - 0.005	1	0	0
Carbendazim (MBC)	652	3	0.5	0.007 - 0.015	0.005 ^	1	2	0
Chlorpropham	652	7	1.1	0.006 - 0.13	0.005 - 0.020	4	3	0
DCPA	652	3	0.5	0.003 - 0.005	0.003 - 0.010	2	1	0
Difenoconazole	652	1	0.2	0.098 ^	0.005 ^	0	1	0
Forchlorfenuron	351	3	0.9	0.003 - 0.004	0.003 ^	1	2	0
Methoxyfenozide	652	1	0.2	0.026 ^	0.005 - 0.006	0	1	0
Pyrimethanil	652	14	2.1	0.002 - 0.041	0.002 - 0.005	10	4	0
Spiromesifen	351	1	0.3	0.008 ^	0.005 ^	0	1	0
14 Raspberries, Frozen (4 pesticides)								
Carbendazim (MBC)	53	8	15.1	0.006 - 0.22	0.005 ^	0	8	0
Pyridaben	53	1	1.9	0.004 ^	0.001 - 0.003	0	1	0
Pyrimethanil	53	4	7.5	0.007 - 0.14	0.002 - 0.005	0	4	0
Trifloxystrobin	53	1	1.9	0.011 ^	0.003 - 0.005	0	1	0
15 Summer Squash (3 pesticides)								
Pentachloroaniline (PCA)	709	11	1.6	0.003 - 0.018	0.003 - 0.12	5	6	0
Pronamide	363	1	0.3	0.003 ^	0.003 ^	1	0	0
Quinoxyfen	363	4	1.1	0.004 - 0.010	0.003 ^	1	3	0
16 Winter Squash (3 pesticides)								
Chlorpropham	187	2	1.1	0.010 ^	0.006 ^	1	1	0
Dimethoate	187	1	0.5	0.021 ^	0.002 ^	0	1	0
Omethoate [7]	187	1	0.5	0.052 ^	0.003 ^	0	1	0
Fenbuconazole	187	2	1.1	0.010 ^	0.006 ^	0	2	0

NOTES

1 Tetrahydrophthalimide (THPI) is a metabolite of captafol and captan.
2 One broccoli sample and one green bean sample contained both the parent, Carbofuran, and its metabolite, 3-Hydroxycarbofuran.
3 One carrot sample contained both the PCA and PCB metabolites.
4 Propamocarb analytically determined as the salt (hydrochloride).
5 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.
6 Permethrin Total includes the cis permethrin isomer plus the trans permethrin isomer.
7 Omethoate is a metabolite of the parent, Dimethoate. One winter squash sample contained both Dimethoate and Omethoate.

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 2013

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